Ply Gem WINDOWS

MIRA®

WINDOWS & PATIO DOORS

ALUMINUM CLAD WINDOWS

A WHOLE NEW POINT OF VIEW.

EAST

SIZING GUIDE

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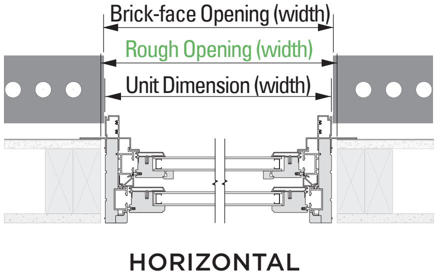
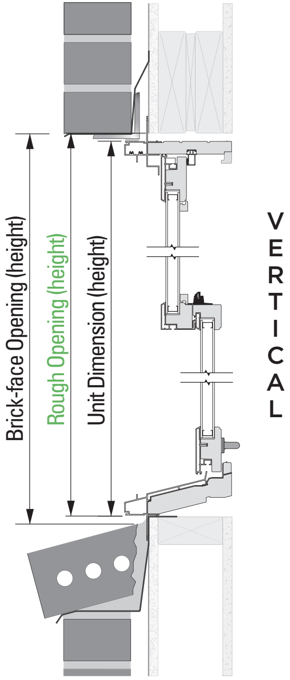
It's more than a window. It's a whole new point of view. At Ply Gem Windows, we have a different view for the way the window business should be run. We believe you should have access to all of the top quality styles and brands across the country. That's why we've taken our entire portfolio of brands, brands that you know and trust, and given them one name – Ply Gem Windows. With this one name comes a lot of big advantages, starting with a national manufacturing and distribution network. Pair that with our commitment to customer service, sustainable practices and wide variety of window styles that fit all of your design needs, and you'll get the right window for every project and every budget.

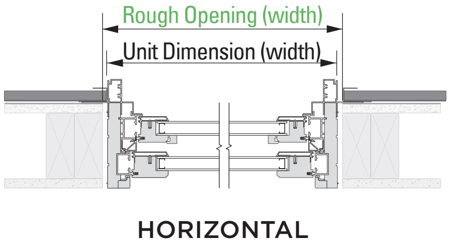
And, because we're part of the Ply Gem family, you know you'll always have access to leading brands. Windows, doors, siding and accessories, stone veneer, fence and rail, rainware, shutters and designer accents, we have something for every project. We work with residential builders, remodelers, architects, distributors and dealers to help build sales. When you combine 75 years of experience, industry-leading customer service, and trusted local relationships you've got a company you can count on. **Ply Gem. Building products. Building success.**

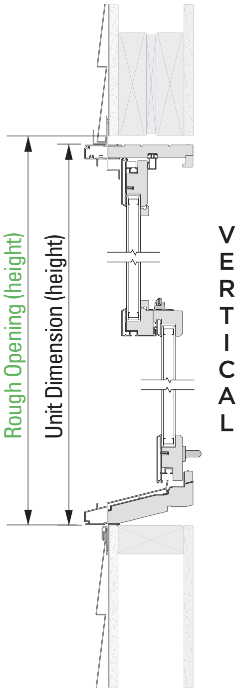
Brick Siding



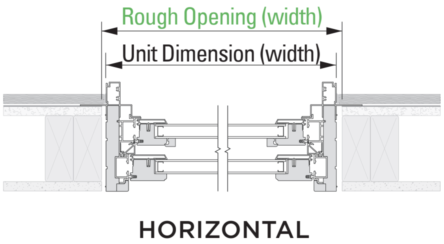


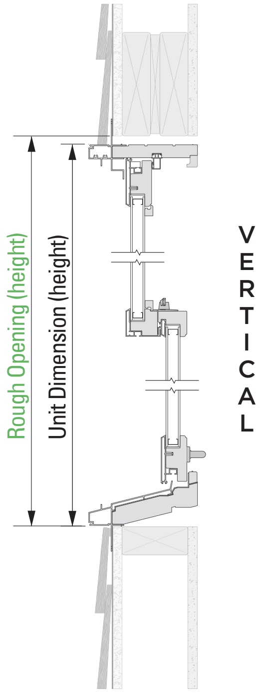
Vinyl Siding



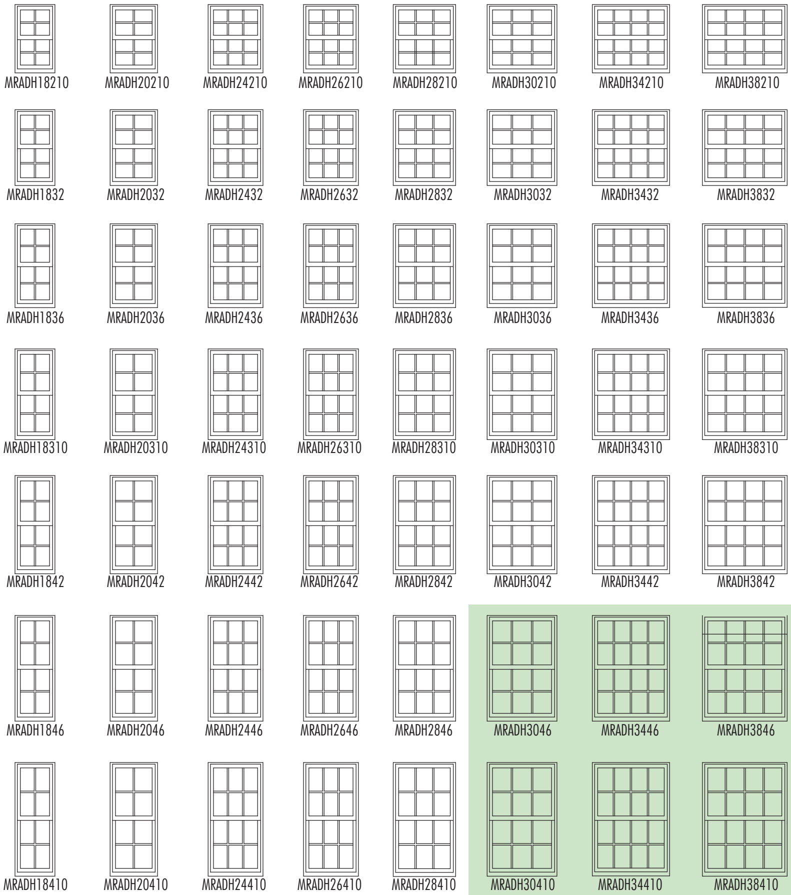


Wood Siding





Double Hung – Single Operating Units

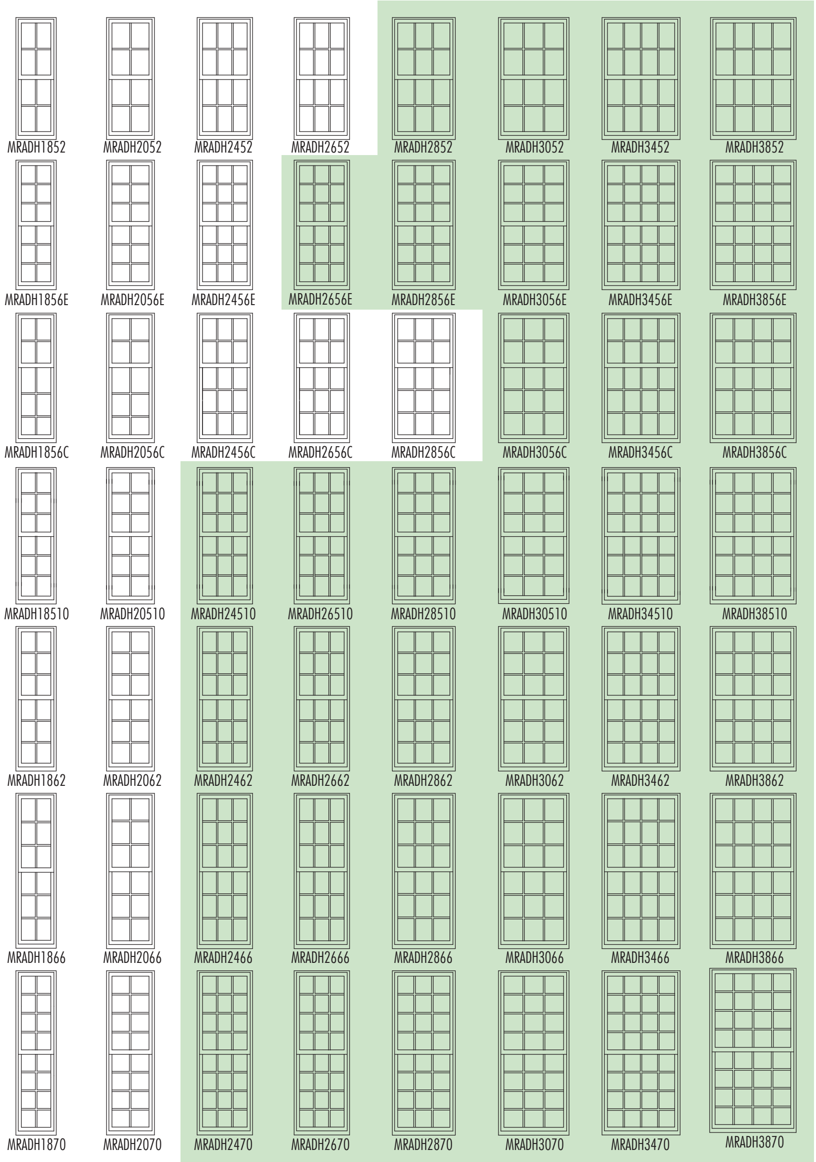


Widths

Heights: Unit Dimension	Rough Opening	Call Size								
		Unit Dimension	1'–9 3/8"	2'–1 3/8"	2'–5 3/8"	2'–7 3/8"	2'–9 3/8"	3'–1 3/8"	3'–5 3/8"	3'–9 3/8"
		Rough Opening	1'–10 3/8"	2'–2 3/8"	2'–6 3/8"	2'–8 3/8"	2'–10 3/8"	3'–2 3/8"	3'–6 3/8"	3'–10 3/8"
		Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3–8
3–0 9/16"	3–1 1/16"	2–10	MRADH18210	MRADH20210	MRADH24210	MRADH26210	MRADH28210	MRADH30210	MRADH34210	MRADH38210
3–4 9/16"	3–5 1/16"	3–2	MRADH1832	MRADH2032	MRADH2432	MRADH2632	MRADH2832	MRADH3032	MRADH3432	MRADH3832
3–8 9/16"	3–9 1/16"	3–6	MRADH1836	MRADH2036	MRADH2436	MRADH2636	MRADH2836	MRADH3036	MRADH3436	MRADH3836
4–0 9/16"	4–1 1/16"	3–10	MRADH18310	MRADH20310	MRADH24310	MRADH26310	MRADH28310	MRADH30310	MRADH34310	MRADH38310
4–4 9/16"	4–5 1/16"	4–2	MRADH1842	MRADH2042	MRADH2442	MRADH2642	MRADH2842	MRADH3042	MRADH3442	MRADH3842
4–8 9/16"	4–9 1/16"	4–6	MRADH1846	MRADH2046	MRADH2446	MRADH2646	MRADH2846	🟩 MRADH3046	🟩 MRADH3446	🟩 MRADH3846
5–0 9/16"	5–1 1/16"	4–10	MRADH18410	MRADH20410	MRADH24410	MRADH26410	MRADH28410	🟩 MRADH30410	🟩 MRADH34410	🟩 MRADH38410

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Widths

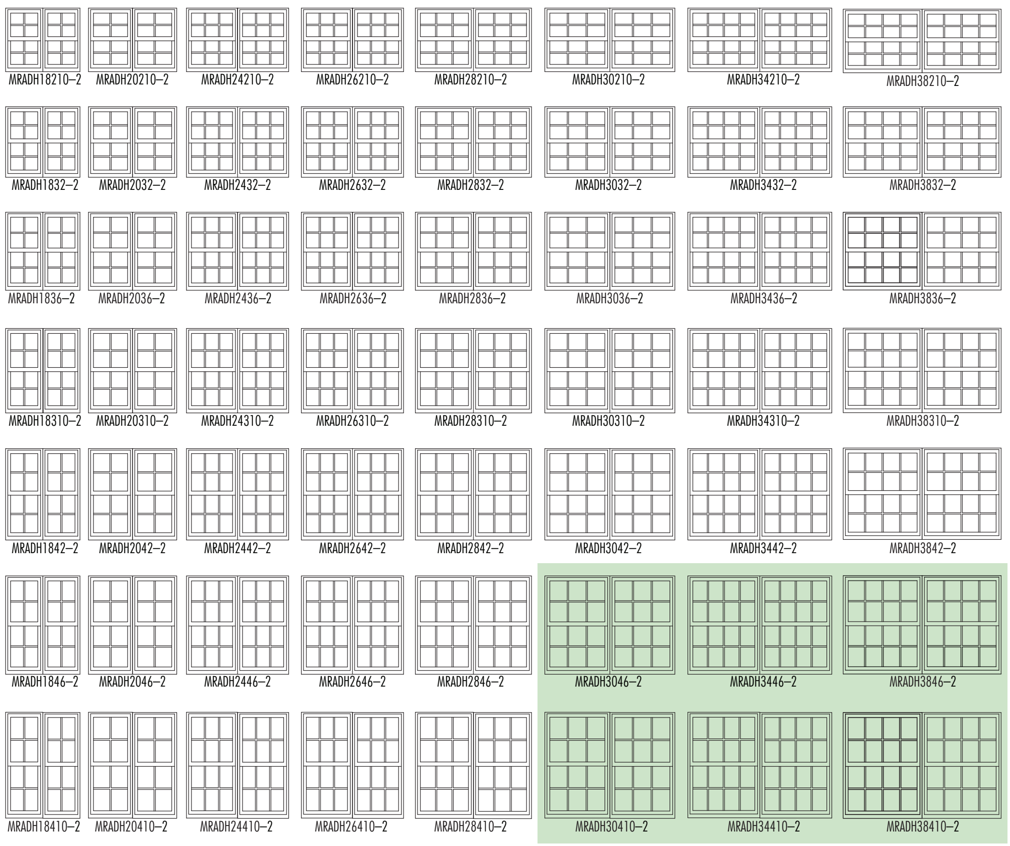


Heights

Unit Dimension			1' – 9 3/8"	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
	Rough Opening		1' – 10 3/8"	2' –2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' –10 3/8"
		Call Size	1 – 8	2 – 0	2 – 4	2 – 6	2 – 8	3 – 0	3 – 4	3 – 8
5' – 4 9/16"	5' – 5 1/16"	5 – 2	MRADH1852	MRADH2052	MRADH2452	MRADH2652	🟩 MRADH2852	🟩 MRADH3052	🟩 MRADH3452	🟩 MRADH3852
5' – 8 9/16"	5' – 9 1/16"	5 – 6E	MRADH1856E	MRADH2056E	MRADH2456E	🟩 MRADH2656E	🟩 MRADH2856E	🟩 MRADH3056E	🟩 MRADH3456E	🟩 MRADH3856E
5' – 8 9/16"	5' – 9 1/16"	5 – 6C	MRADH1856C	MRADH2056C	MRADH2456C	MRADH2656C	MRADH2856C	🟩 MRADH3056C	🟩 MRADH3456C	🟩 MRADH3856C
6' – 0 9/16"	6' – 1 1/16"	5 – 10	MRADH18510	MRADH20510	🟩 MRADH24510	🟩 MRADH26510	🟩 MRADH28510	🟩 MRADH30510	🟩 MRADH34510	🟩 MRADH38510
6' – 4 9/16"	6' – 5 1/16"	6 – 2	MRADH1862	MRADH2062	🟩 MRADH2462	🟩 MRADH2662	🟩 MRADH2862	🟩 MRADH3062	🟩 MRADH3462	🟩 MRADH3862
6' – 8 9/16"	6' – 9 1/16"	6 – 6	MRADH1866	MRADH2066	🟩 MRADH2466	🟩 MRADH2666	🟩 MRADH2866	🟩 MRADH3066	🟩 MRADH3466	🟩 MRADH3866
7' – 2 9/16"	7' – 3 1/16"	7 – 0	MRADH1870	MRADH2070	🟩 MRADH2470	🟩 MRADH2670	🟩 MRADH2870	🟩 MRADH3070	🟩 MRADH3470	🟩 MRADH3870

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Double Hung – Twin Operating Units



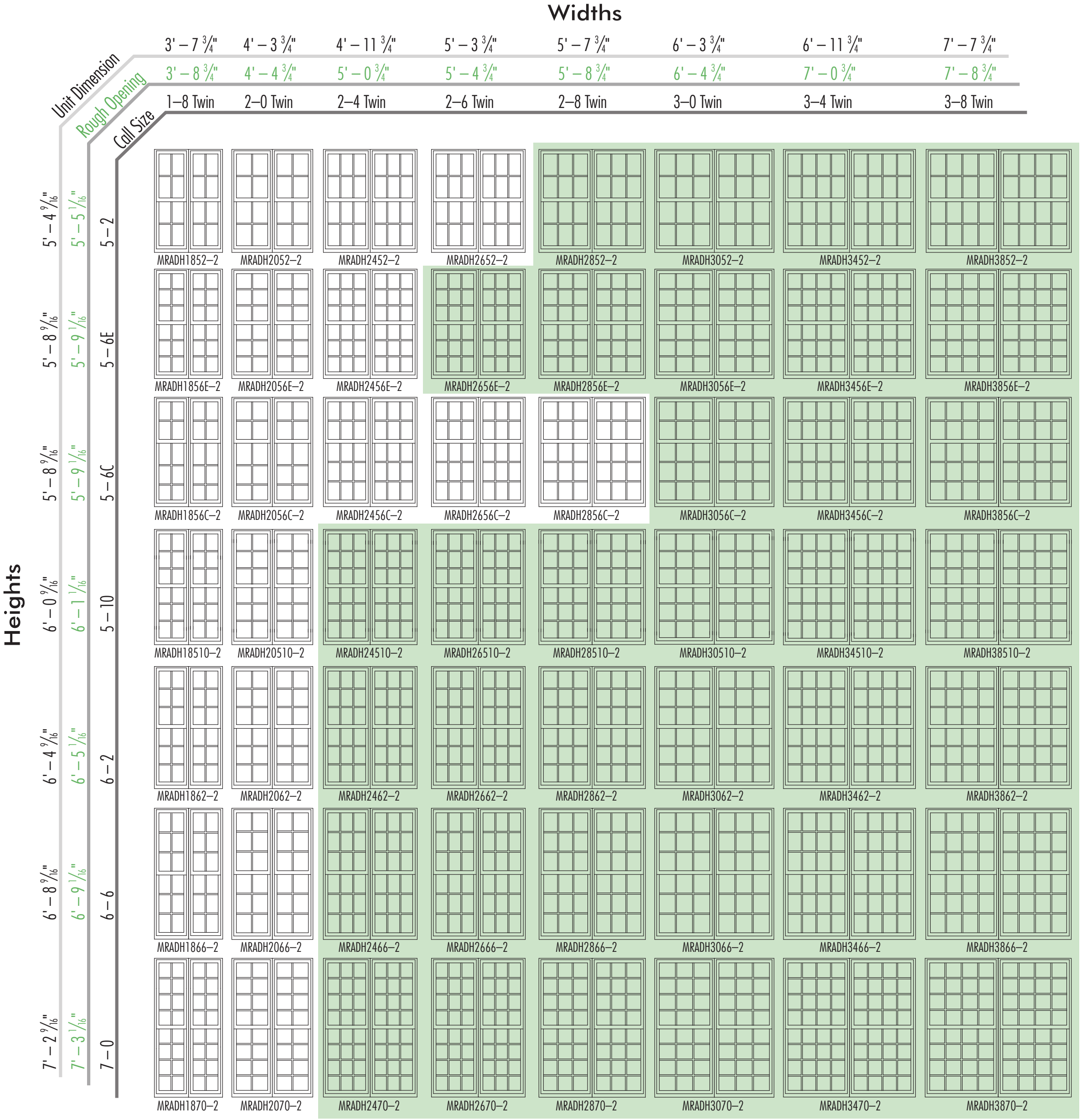
Widths

Heights

		Unit Dimension	3'–7 3/4"	4'–3 3/4"	4'–11 3/4"	5'–3 3/4"	5'–7 3/4"	6'–3 3/4"	6'–11 3/4"	7'–7 3/4"
		Rough Opening	3'–8 3/4"	4'–4 3/4"	5'–0 3/4"	5'–4 3/4"	5'–8 3/4"	6'–4 3/4"	7'–0 3/4"	7'–8 3/4"
		Call Size	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin	3–4 Twin	3–8 Twin
3 – 0 9/16"	3 – 1 1/16"	2 – 10	MRADH18210–2	MRADH20210–2	MRADH24210–2	MRADH26210–2	MRADH28210–2	MRADH30210–2	MRADH34210–2	MRADH38210–2
3 – 4 9/16"	3 – 5 1/16"	3 – 2	MRADH1832–2	MRADH2032–2	MRADH2432–2	MRADH2632–2	MRADH2832–2	MRADH3032–2	MRADH3432–2	MRADH3832–2
3 – 8 9/16"	3 – 9 1/16"	3 – 6	MRADH1836–2	MRADH2036–2	MRADH2436–2	MRADH2636–2	MRADH2836–2	MRADH3036–2	MRADH3436–2	MRADH3836–2
4 – 0 9/16"	4 – 1 1/16"	3 – 10	MRADH18310–2	MRADH20310–2	MRADH24310–2	MRADH26310–2	MRADH28310–2	MRADH30310–2	MRADH34310–2	MRADH38310–2
4 – 4 9/16"	4 – 5 1/16"	4 – 2	MRADH1842–2	MRADH2042–2	MRADH2442–2	MRADH2642–2	MRADH2842–2	MRADH3042–2	MRADH3442–2	MRADH3842–2
4 – 8 9/16"	4 – 9 1/16"	4 – 6	MRADH1846–2	MRADH2046–2	MRADH2446–2	MRADH2646–2	MRADH2846–2	🟩 MRADH3046–2	🟩 MRADH3446–2	🟩 MRADH3846–2
5 – 0 9/16"	5 – 1 1/16"	4 – 10	MRADH18410–2	MRADH20410–2	MRADH24410–2	MRADH26410–2	MRADH28410–2	🟩 MRADH30410–2	🟩 MRADH34410–2	🟩 MRADH38410–2

NOTE:

Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.



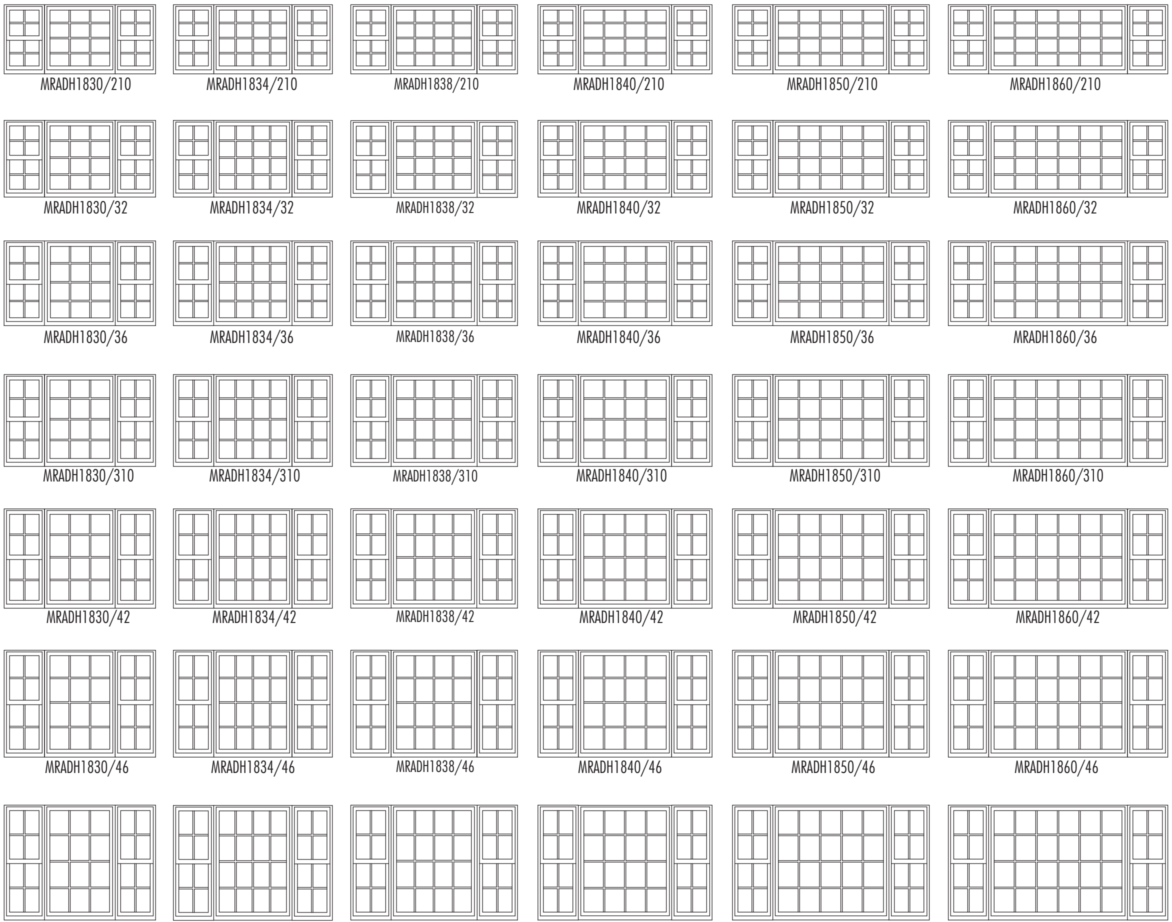
Heights: Unit Dimension	Rough Opening	Call Size	Widths: 3' – 7 3/4"	4' – 3 3/4"	4' – 11 3/4"	5' – 3 3/4"	5' – 7 3/4"	6' – 3 3/4"	6' – 11 3/4"	7' – 7 3/4"
			3' – 8 3/4"	4' – 4 3/4"	5' – 0 3/4"	5' – 4 3/4"	5' – 8 3/4"	6' – 4 3/4"	7' – 0 3/4"	7' – 8 3/4"
			1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin	3–4 Twin	3–8 Twin
5' – 4 9/16"	5' – 5 1/16"	5 – 2	MRADH1852–2	MRADH2052–2	MRADH2452–2	MRADH2652–2	MRADH2852–2	MRADH3052–2	MRADH3452–2	MRADH3852–2
5' – 8 9/16"	5' – 9 1/16"	5 – 6E	MRADH1856E–2	MRADH2056E–2	MRADH2456E–2	MRADH2656E–2	MRADH2856E–2	MRADH3056E–2	MRADH3456E–2	MRADH3856E–2
5' – 8 9/16"	5' – 9 1/16"	5 – 6C	MRADH1856C–2	MRADH2056C–2	MRADH2456C–2	MRADH2656C–2	MRADH2856C–2	MRADH3056C–2	MRADH3456C–2	MRADH3856C–2
6' – 0 9/16"	6' – 1 1/16"	5 – 10	MRADH18510–2	MRADH20510–2	MRADH24510–2	MRADH26510–2	MRADH28510–2	MRADH30510–2	MRADH34510–2	MRADH38510–2
6' – 4 9/16"	6' – 5 1/16"	6 – 2	MRADH1862–2	MRADH2062–2	MRADH2462–2	MRADH2662–2	MRADH2862–2	MRADH3062–2	MRADH3462–2	MRADH3862–2
6' – 8 9/16"	6' – 9 1/16"	6 – 6	MRADH1866–2	MRADH2066–2	MRADH2466–2	MRADH2666–2	MRADH2866–2	MRADH3066–2	MRADH3466–2	MRADH3866–2
7' – 2 9/16"	7' – 3 1/16"	7 – 0	MRADH1870–2	MRADH2070–2	MRADH2470–2	MRADH2670–2	MRADH2870–2	MRADH3070–2	MRADH3470–2	MRADH3870–2

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Double Hung – Combination
1-8 Operating Units

Widths

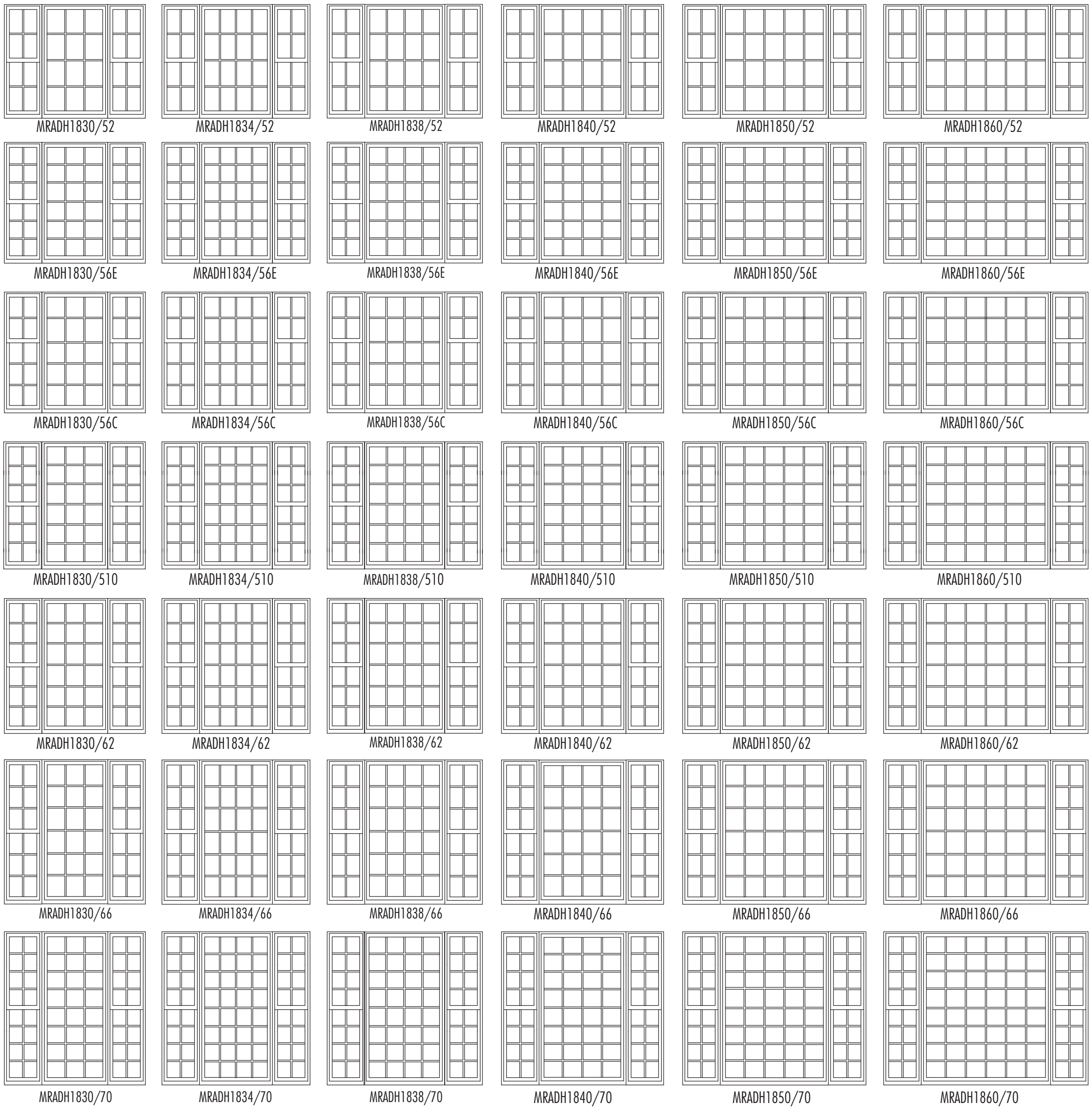
Heights



		Unit Dimension	6' – 10 1/8"	7' – 2 1/8"	7' – 6 1/8"	7' – 10 1/8"	8' – 10 1/8"	9' – 10 1/8"
		Rough Opening	6' – 11 1/8"	7' – 3 1/8"	7' – 7 1/8"	7' – 11 1/8"	8' – 11 1/8"	9' – 11 1/8"
Unit Dimension	Rough Opening	Call Size	18/30	18/34	18/38	18/40	18/50	18/60
3 – 0 9/16"	3 – 1 1/16"	2 – 10	MRADH1830/210	MRADH1834/210	MRADH1838/210	MRADH1840/210	MRADH1850/210	MRADH1860/210
3 – 4 9/16"	3 – 5 1/16"	3 – 2	MRADH1830/32	MRADH1834/32	MRADH1838/32	MRADH1840/32	MRADH1850/32	MRADH1860/32
3 – 8 9/16"	3 – 9 1/16"	3 – 6	MRADH1830/36	MRADH1834/36	MRADH1838/36	MRADH1840/36	MRADH1850/36	MRADH1860/36
4 – 0 9/16"	4 – 1 1/16"	3 – 10	MRADH1830/310	MRADH1834/310	MRADH1838/310	MRADH1840/310	MRADH1850/310	MRADH1860/310
4 – 4 9/16"	4 – 5 1/16"	4 – 2	MRADH1830/42	MRADH1834/42	MRADH1838/42	MRADH1840/42	MRADH1850/42	MRADH1860/42
4 – 8 9/16"	4 – 9 1/16"	4 – 6	MRADH1830/46	MRADH1834/46	MRADH1838/46	MRADH1840/46	MRADH1850/46	MRADH1860/46
5 – 0 9/16"	5 – 1 1/16"	4 – 10	MRADH1830/410	MRADH1830/410	MRADH1838/410	MRADH1840/410	MRADH1850/410	MRADH1860/410

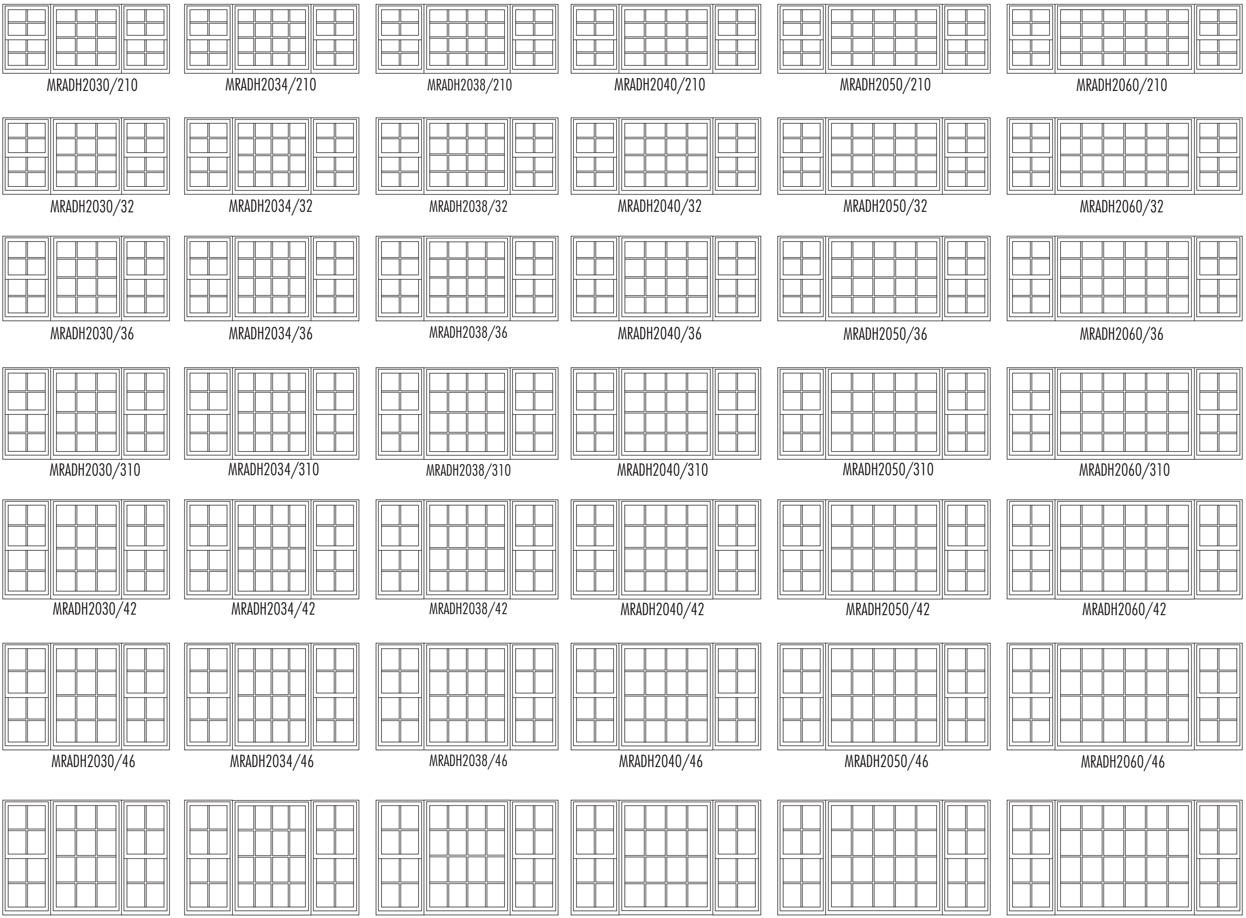
Widths

Heights



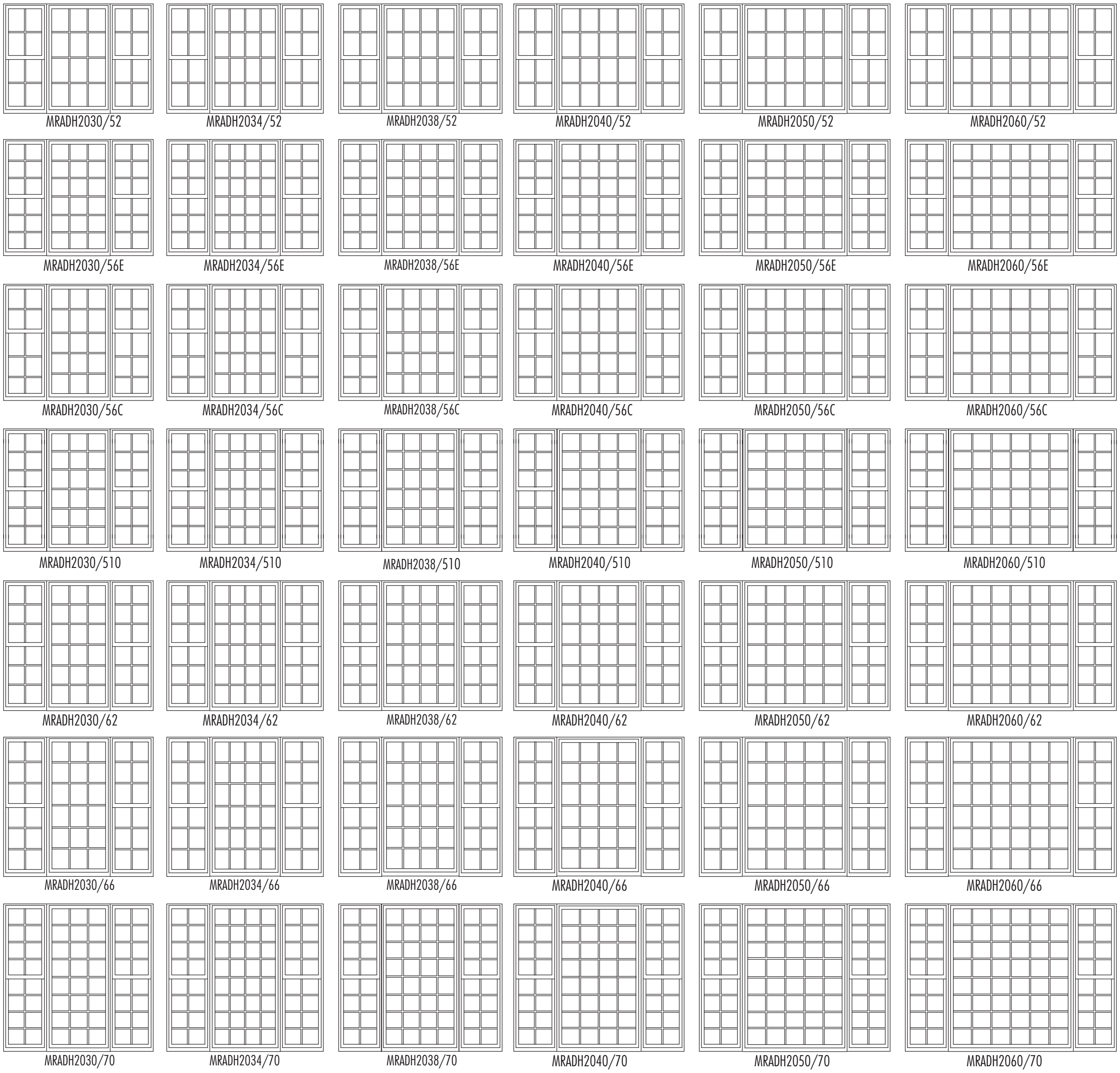
Unit Dimension			6' – 10 1/8"	7' – 2 1/8"	7' – 6 1/8"	7' – 10 1/8"	8' – 10 1/8"	9' – 10 1/8"
	Rough Opening		6' – 11 1/8"	7' – 3 1/8"	7' – 7 1/8"	7' – 11 1/8"	8' – 11 1/8"	9' – 11 1/8"
		Call Size	18/30	18/34	18/38	18/40	18/50	18/60
5' – 4 9/16"	5' – 5 1/16"	5 – 2	MRADH1830/52	MRADH1834/52	MRADH1838/52	MRADH1840/52	MRADH1850/52	MRADH1860/52
5' – 8 9/16"	5' – 9 1/16"	5 – 6E	MRADH1830/56E	MRADH1834/56E	MRADH1838/56E	MRADH1840/56E	MRADH1850/56E	MRADH1860/56E
5' – 8 9/16"	5' – 9 1/16"	5 – 6C	MRADH1830/56C	MRADH1834/56C	MRADH1838/56C	MRADH1840/56C	MRADH1850/56C	MRADH1860/56C
6' – 0 9/16"	6' – 1 1/16"	5 – 10	MRADH1830/510	MRADH1834/510	MRADH1838/510	MRADH1840/510	MRADH1850/510	MRADH1860/510
6' – 4 9/16"	6' – 5 1/16"	6 – 2	MRADH1830/62	MRADH1834/62	MRADH1838/62	MRADH1840/62	MRADH1850/62	MRADH1860/62
6' – 8 9/16"	6' – 9 1/16"	6 – 6	MRADH1830/66	MRADH1834/66	MRADH1838/66	MRADH1840/66	MRADH1850/66	MRADH1860/66
7' – 2 9/16"	7' – 3 1/16"	7 – 0	MRADH1830/70	MRADH1834/70	MRADH1838/70	MRADH1840/70	MRADH1850/70	MRADH1860/70

Double Hung – Combination
2-0 Operating Units



Heights			Widths					
Unit Dimension			7' – 6 1/8"	7' – 10 1/8"	8' – 2 1/8"	8' – 6 1/8"	9' – 6 1/8"	10' – 6 1/8"
	Rough Opening		7' – 7 1/8"	7' –11 1/8"	8' –3 1/8"	8' – 7 1/8"	9' – 7 1/8"	10' – 7 1/8"
		Call Size	20/30	20/34	20/38	20/40	20/50	20/60
3 – 0 9/16"	3 – 1 1/16"	2 – 10	MRADH2030/210	MRADH2034/210	MRADH2038/210	MRADH2040/210	MRADH2050/210	MRADH2060/210
3 – 4 9/16"	3 – 5 1/16"	3 – 2	MRADH2030/32	MRADH2034/32	MRADH2038/32	MRADH2040/32	MRADH2050/32	MRADH2060/32
3 – 8 9/16"	3 – 9 1/16"	3 – 6	MRADH2030/36	MRADH2034/36	MRADH2038/36	MRADH2040/36	MRADH2050/36	MRADH2060/36
4 – 0 9/16"	4 – 1 1/16"	3 – 10	MRADH2030/310	MRADH2034/310	MRADH2038/310	MRADH2040/310	MRADH2050/310	MRADH2060/310
4 – 4 9/16"	4 – 5 1/16"	4 – 2	MRADH2030/42	MRADH2034/42	MRADH2038/42	MRADH2040/42	MRADH2050/42	MRADH2060/42
4 – 8 9/16"	4 – 9 1/16"	4 – 6	MRADH2030/46	MRADH2034/46	MRADH2038/46	MRADH2040/46	MRADH2050/46	MRADH2060/46
5 – 0 9/16"	5 – 1 1/16"	4 – 10	MRADH2030/410	MRADH2030/410	MRADH2038/410	MRADH2040/410	MRADH2050/410	MRADH2060/410

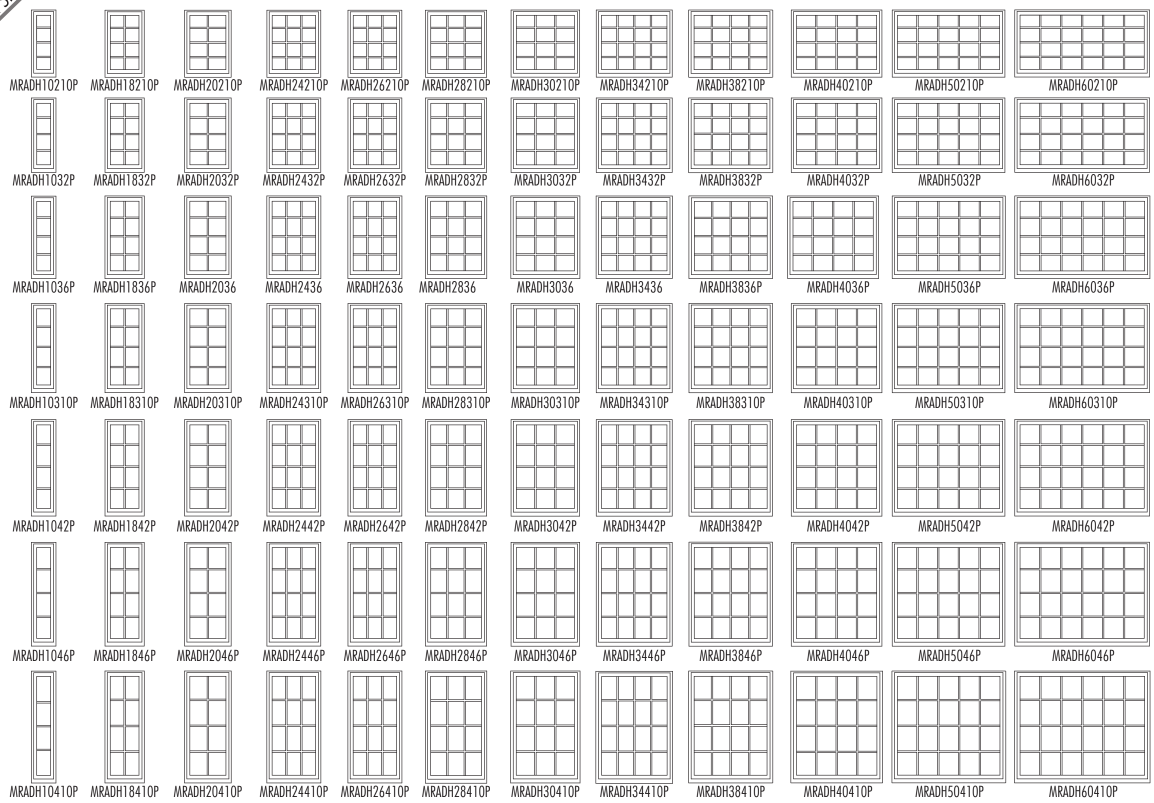
Widths



		Heights						
		Unit Dimension	7' – 6 1/8"	7' – 10 1/8"	8' – 2 1/8"	8' – 6 1/8"	9' – 6 1/8"	10' – 6 1/8"
		Rough Opening	7' – 7 1/8"	7' –11 1/8"	8' – 3 1/8"	8' – 7 1/8"	9' – 7 1/8"	10' – 7 1/8"
Unit Dimension	Rough Opening	Call Size	20/30	20/34	20/38	20/40	20/50	20/60
5' – 4 9/16"	5' – 5 1/16"	5 – 2	MRADH2030/52	MRADH2034/52	MRADH2038/52	MRADH2040/52	MRADH2050/52	MRADH2060/52
5' – 8 9/16"	5' – 9 1/16"	5 – 6E	MRADH2030/56E	MRADH2034/56E	MRADH2038/56E	MRADH2040/56E	MRADH2050/56E	MRADH2060/56E
5' – 8 9/16"	5' – 9 1/16"	5 – 6C	MRADH2030/56C	MRADH2034/56C	MRADH2038/56C	MRADH2040/56C	MRADH2050/56C	MRADH2060/56C
6' – 0 9/16"	6' – 1 1/16"	5 – 10	MRADH2030/510	MRADH2034/510	MRADH2038/510	MRADH2040/510	MRADH2050/510	MRADH2060/510
6' – 4 9/16"	6' – 5 1/16"	6 – 2	MRADH2030/62	MRADH2034/62	MRADH2038/62	MRADH2040/62	MRADH2050/62	MRADH2060/62
6' – 8 9/16"	6' – 9 1/16"	6 – 6	MRADH2030/66	MRADH2034/66	MRADH2038/66	MRADH2040/66	MRADH2050/66	MRADH2060/66
7' – 2 9/16"	7' – 3 1/16"	7 – 0	MRADH2030/70	MRADH2034/70	MRADH2038/70	MRADH2040/70	MRADH2050/70	MRADH2060/70

Widths

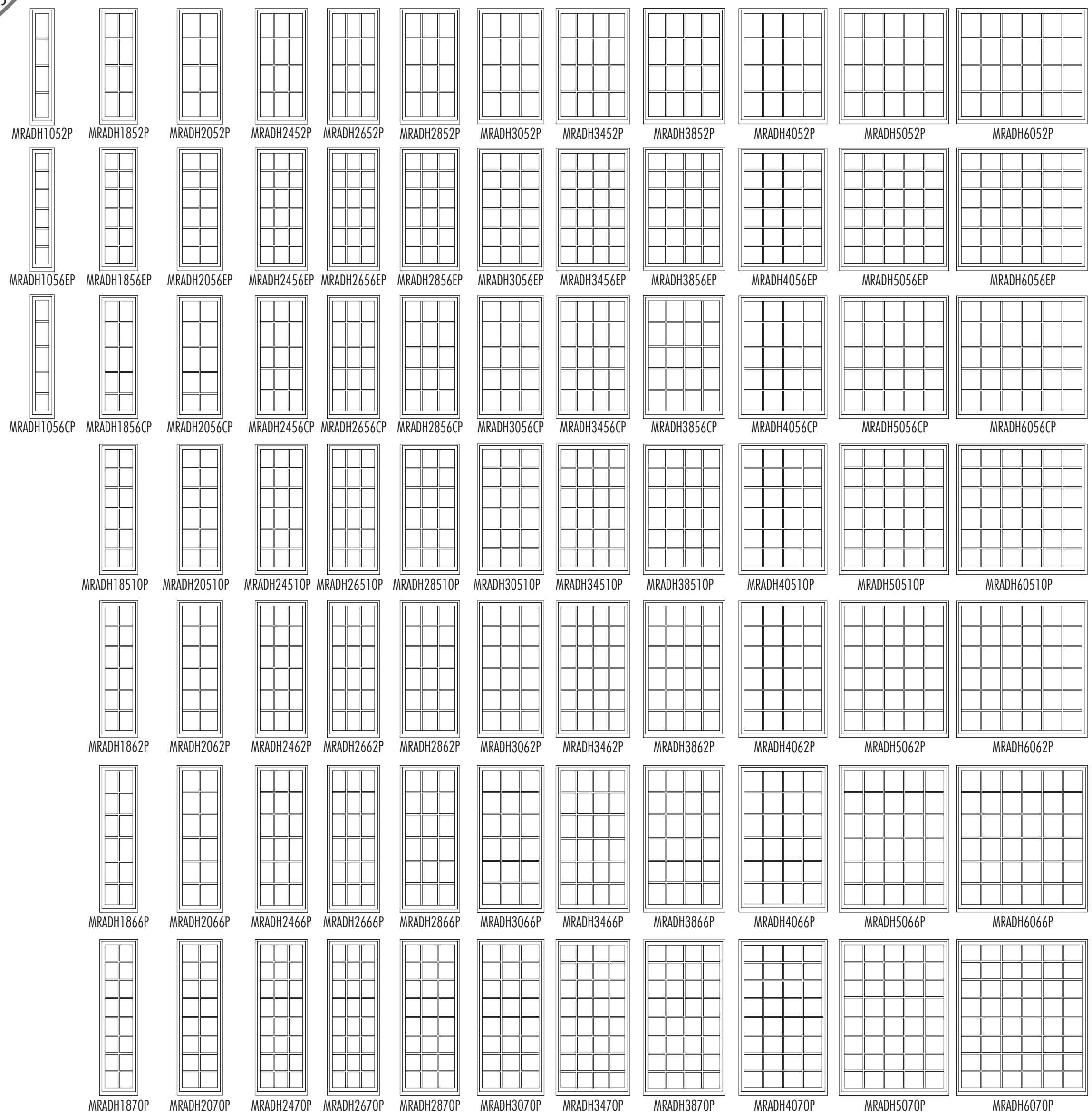
Heights



		Unit Dimension	1'–1 3/8"	1'–9 3/8"	2'–1 3/8"	2'–5 3/8"	2'–7 3/8"	2'–9 3/8"	3'–1 3/8"	3'–5 3/8"	3'–9 3/8"	4'–1 3/8"	5'–1 3/8"	6'–1 3/8"
		Rough Opening	1'–2 3/8"	1'–10 3/8"	2'–2 3/8"	2'–6 3/8"	2'–8 3/8"	2'–10 3/8"	3'–2 3/8"	3'–6 3/8"	3'–10 3/8"	4'–2 3/8"	5'–2 3/8"	6'–2 3/8"
Unit Dimension	Rough Opening	Call Size	1–0	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3–8	4–0	5–0	6–0
3–0 9/16"	3–1 1/16"	2–10	MRADH10210P	MRADH18210P	MRADH20210P	MRADH24210P	MRADH26210P	MRADH28210P	MRADH30210P	MRADH34210P	MRADH38210P	MRADH40210P	MRADH50210P	MRADH60210P
3–4 9/16"	3–5 1/16"	3–2	MRADH1032P	MRADH1832P	MRADH2032P	MRADH2432P	MRADH2632P	MRADH2832P	MRADH3032P	MRADH3432P	MRADH3832P	MRADH4032P	MRADH5032P	MRADH6032P
3–8 9/16"	3–9 1/16"	3–6	MRADH1036P	MRADH1836P	MRADH2036	MRADH2436	MRADH2636	MRADH2836	MRADH3036	MRADH3436	MRADH3836P	MRADH4036P	MRADH5036P	MRADH6036P
4–0 9/16"	4–1 1/16"	3–10	MRADH10310P	MRADH18310P	MRADH20310P	MRADH24310P	MRADH26310P	MRADH28310P	MRADH30310P	MRADH34310P	MRADH38310P	MRADH40310P	MRADH50310P	MRADH60310P
4–4 9/16"	4–5 1/16"	4–2	MRADH1042P	MRADH1842P	MRADH2042P	MRADH2442P	MRADH2642P	MRADH2842P	MRADH3042P	MRADH3442P	MRADH3842P	MRADH4042P	MRADH5042P	MRADH6042P
4–8 9/16"	4–9 1/16"	4–6	MRADH1046P	MRADH1846P	MRADH2046P	MRADH2446P	MRADH2646P	MRADH2846P	MRADH3046P	MRADH3446P	MRADH3846P	MRADH4046P	MRADH5046P	MRADH6046P
5–0 9/16"	5–1 1/16"	4–10	MRADH10410P	MRADH18410P	MRADH20410P	MRADH24410P	MRADH26410P	MRADH28410P	MRADH30410P	MRADH34410P	MRADH38410P	MRADH40410P	MRADH50410P	MRADH60410P

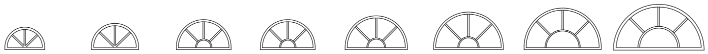
Widths

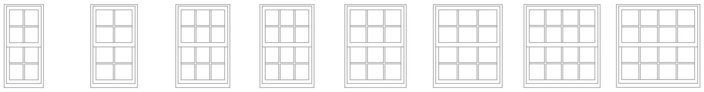
Heights



Unit Dimension	Rough Opening	Call Size	1'–1 3/8"	1'–9 3/8"	2'–1 3/8"	2'–5 3/8"	2'–7 3/8"	2'–9 3/8"	3'–1 3/8"	3'–5 3/8"	3'–9 3/8"	4'–1 3/8"	5'–1 3/8"	6'–1 3/8"
			1'–2 3/8"	1'–10 3/8"	2'–2 3/8"	2'–6 3/8"	2'–8 3/8"	2'–10 3/8"	3'–2 3/8"	3'–6 3/8"	3'–10 3/8"	4'–2 3/8"	5'–2 3/8"	6'–2 3/8"
			1–0	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3–8	4–0	5–0	6–0
5'–4 9/16"	5'–5 1/16"	5–2	MRADH1052P	MRADH1852P	MRADH2052P	MRADH2452P	MRADH2652P	MRADH2852P	MRADH3052P	MRADH3452P	MRADH3852P	MRADH4052P	MRADH5052P	MRADH6052P
5'–8 9/16"	5'–9 1/16"	5–6E	MRADH1056EP	MRADH1856EP	MRADH2056EP	MRADH2456EP	MRADH2656EP	MRADH2856EP	MRADH3056EP	MRADH3456EP	MRADH3856EP	MRADH4056EP	MRADH5056EP	MRADH6056EP
5'–8 9/16"	5'–9 1/16"	5–6C	MRADH1056CP	MRADH1856CP	MRADH2056CP	MRADH2456CP	MRADH2656CP	MRADH2856CP	MRADH3056CP	MRADH3456CP	MRADH3856CP	MRADH4056CP	MRADH5056CP	MRADH6056CP
6'–0 9/16"	6'–1 1/16"	5–10		MRADH18510P	MRADH20510P	MRADH24510P	MRADH26510P	MRADH28510P	MRADH30510P	MRADH34510P	MRADH38510P	MRADH40510P	MRADH50510P	MRADH60510P
6'–4 9/16"	6'–5 1/16"	6–2		MRADH1862P	MRADH2062P	MRADH2462P	MRADH2662P	MRADH2862P	MRADH3062P	MRADH3462P	MRADH3862P	MRADH4062P	MRADH5062P	MRADH6062P
6'–8 9/16"	6'–9 1/16"	6–6		MRADH1866P	MRADH2066P	MRADH2466P	MRADH2666P	MRADH2866P	MRADH3066P	MRADH3466P	MRADH3866P	MRADH4066P	MRADH5066P	MRADH6066P
7'–2 9/16"	7'–3 1/16"	7–0		MRADH1870P	MRADH2070P	MRADH2470P	MRADH2670P	MRADH2870P	MRADH3070P	MRADH3470P	MRADH3870P	MRADH4070P	MRADH5070P	MRADH6070P

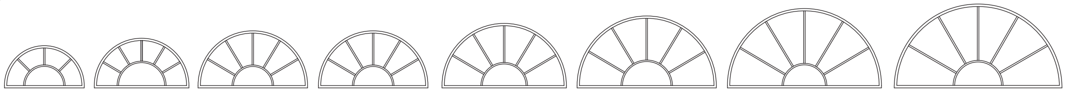
Single Widths

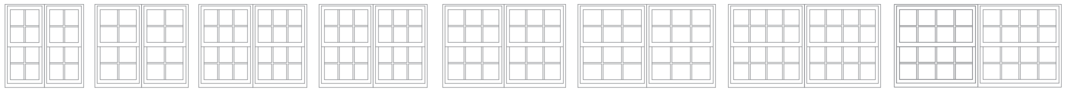




Unit Dimension	1' – 9 3/8"	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
Rough Opening	1' – 10 3/8"	2' – 2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' – 10 3/8"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3–8
Heights	MRADH18CH	MRADH20CH	MRADH24CH	MRADH26CH	MRADH28CH	MRADH30CH	MRADH34CH	MRADH38CH
	0' – 10 11/16"	1' – 0 11/16"	1' – 2 11/16"	1' – 3 11/16"	1' – 4 11/16"	1' – 6 11/16"	1' – 8 11/16"	1' – 10 11/16"
	0' – 11 3/16"	1' – 1 3/16"	1' – 3 3/16"	1' – 4 3/16"	1' – 5 3/16"	1' – 7 3/16"	1' – 9 3/16"	1' – 11 3/16"
Grille Options (See chart on opposite page)	C01, CG2, COL	C01, CG2, COL	C03, CG3, COL	C03, CG3, COL	C03, CG3, COL	C03, CG3, COL	C01, C02 C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02 C03, C04, C05, C06, C07, CG2, CG3, CG4, COL

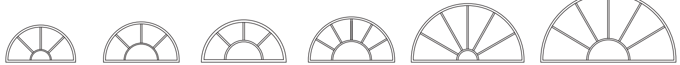
Twin Widths

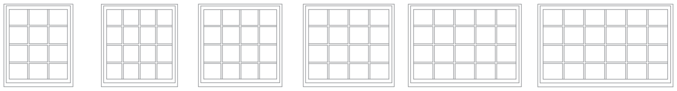




Unit Dimension	3' – 7 3/4"	4' – 3 3/4"	4' – 11 3/4"	5' – 3 3/4"	5' – 7 3/4"	6' – 3 3/4"	6' – 11 3/4"	7' – 7 3/4"
Rough Opening	3' – 8 3/4"	4' – 4 3/4"	5' – 0 3/4"	5' – 4 3/4"	5' – 8 3/4"	6' – 4 3/4"	7' – 0 3/4"	7' – 8 3/4"
Call Size	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin	3–4 Twin	3–8 Twin
Heights	MRADH18–2CH	MRADH20–2CH	MRADH24–2CH	MRADH26–2CH	MRADH28–2CH	MRADH30–2CH	MRADH34–2CH	MRADH38–2CH
	1' – 9 7/8"	2' – 1 7/8"	2' – 5 7/8"	2' – 7 7/8"	2' – 9 7/8"	3' – 1 7/8"	3' – 5 7/8"	3' – 9 7/8"
	1' – 10 3/8"	2' – 2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' – 10 3/8"
Grille Options (See chart on opposite page)	C01, C02, C03, C04, C05, C06, C07, CG2, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG4,COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, CG7, CG8, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, CG7, CG8, COL

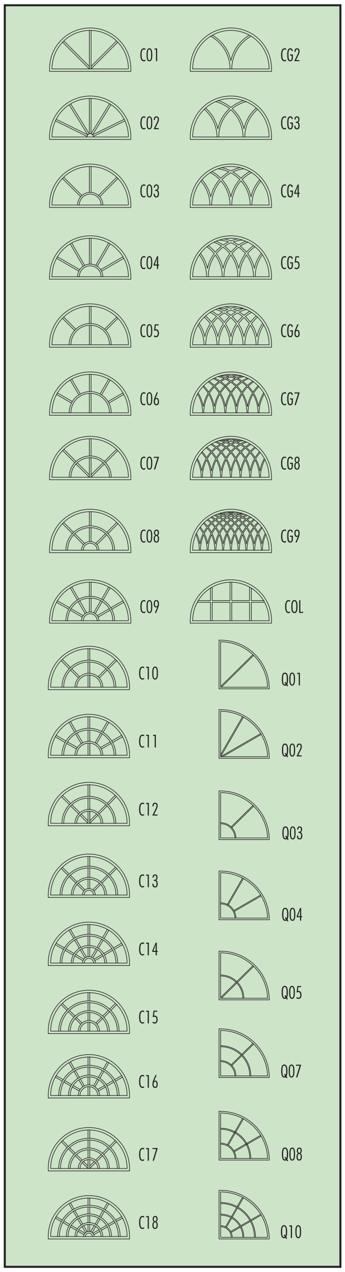
Picture Widths





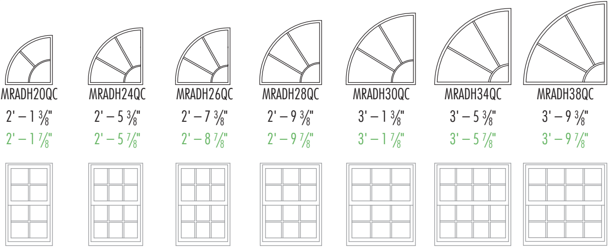
Unit Dimension	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"	4' – 1 3/8"	5' – 1 3/8"	6' – 1 3/8"
Rough Opening	3' – 2 3/8"	3' – 6 3/8"	3' – 10 3/8"	4' – 2 3/8"	5' – 2 3/8"	6' – 2 3/8"
Call Size	3–0 Picture	3–4 Picture	3–8 Picture	4–0 Picture	5–0 Picture	6–0 Picture
Heights	MRADH30PCH	MRADH34PCH	MRADH38PCH	MRADH40PCH	MRADH50PCH	MRADH60PCH
	1' – 6 11/16"	1' – 8 11/16"	1' – 10 11/16"	2' – 0 11/16"	2' – 6 11/16"	3' – 0 11/16"
	1' – 7 3/16"	1' – 9 3/16"	1' – 11 3/16"	2' – 1 3/16"	2' – 7 3/16"	3' – 1 3/16"
Grille Options (See chart on opposite page)	C03, CG3, COL	C01, C02 C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02 C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, COL	C03, C04, C08, C09, CG3, CG5,COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG6, COL

Optional Grille Patterns



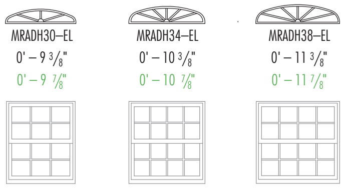
Use order code to specify pattern

Quarter Circle Widths



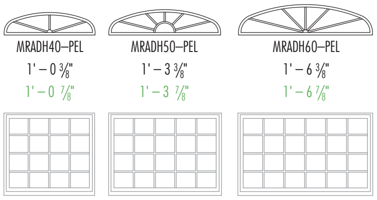
Unit Dimension	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
Rough Opening	2' – 2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' – 10 3/8"
Call Size	2–0	2–4	2–6	2–8	3–0	3–4	3–8
Heights	MRADH20QC	MRADH24QC	MRADH26QC	MRADH28QC	MRADH30QC	MRADH34QC	MRADH38QC
	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
	2' – 1 7/8"	2' – 5 7/8"	2' – 8 7/8"	2' – 9 7/8"	3' – 1 7/8"	3' – 5 7/8"	3' – 9 7/8"
Grille Options (See chart on this page)	Q01,Q02, Q03,Q04, Q05,COL	Q01,Q02,Q03, Q04,Q05,Q07, Q08, COL	Q01,Q02,Q03, Q04,Q05,Q07, Q08, COL	Q01,Q02,Q03, Q04,Q05,Q07, Q08,COL	Q01,Q02,Q03, Q04,Q05,Q07, Q08, COL	Q01,Q02,Q03, Q04,Q05,Q07, Q08, COL	Q01,Q02,Q03, Q04,Q05,Q07, Q08, COL

Single Widths



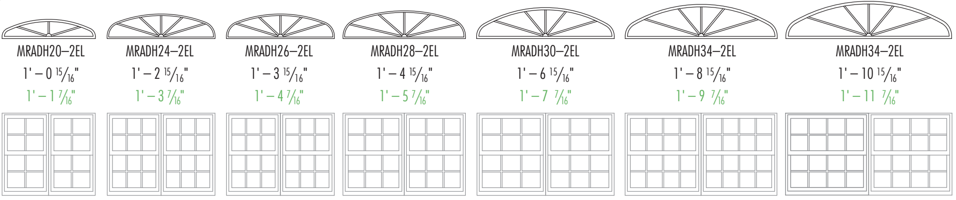
Unit Dimension	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
Rough Opening	3' – 2 3/8"	3' – 6 3/8"	3' –10 3/8"
Call Size	3 – 0	3 – 4	3 – 8
Heights	MRADH30–EL	MRADH34–EL	MRADH38–EL
	0' – 9 3/8"	0' – 10 3/8"	0' – 11 3/8"
	0' – 9 7/8"	0' – 10 7/8"	0' – 11 7/8"
Grille Options (See chart on this page)	C01, CG2, CG3, CG4, COL	C03, C04, CG3, CG5, COL	C03, C04, CG3, CG5, COL

Picture Widths



Unit Dimension	4' – 1 3/8"	5' – 1 3/8"	6' – 1 3/8"
Rough Opening	4' – 2 3/8"	5' – 2 3/8"	6' – 2 3/8"
Call Size	4–0 Picture	5–0 Picture	6–0 Picture
Heights	MRADH40–PEL	MRADH50–PEL	MRADH60–PEL
	1' – 0 3/8"	1' – 3 3/8"	1' – 6 3/8"
	1' – 0 7/8"	1' – 3 7/8"	1' – 6 7/8"
Grille Options (See chart on this page)	C01, CG2, CG3, CG4, COL	C03, C04, CG3, CG5, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL

Twin Widths



Unit Dimension	4' – 3 3/4"	4' – 11 3/4"	5' – 1 1/2"	5' – 7 3/4"	6' – 3 3/4"	6' – 11 3/4"	6' – 7 3/4"
Rough Opening	4' – 4 3/4"	5' – 0 3/4"	5' – 2 1/2"	5' – 8 3/4"	6' – 4 3/4"	7' – 0 3/4"	7' – 8 3/4"
Call Size	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin	3–4 Twin	3–8 Twin
Heights	MRADH20–2EL	MRADH24–2EL	MRADH26–2EL	MRADH28–2EL	MRADH30–2EL	MRADH34–2EL	MRADH34–2EL
	1' – 0 15/16"	1' – 2 15/16"	1' – 3 15/16"	1' – 4 15/16"	1' – 6 15/16"	1' – 8 15/16"	1' – 10 15/16"
	1' – 1 7/16"	1' – 3 7/16"	1' – 4 7/16"	1' – 5 7/16"	1' – 7 7/16"	1' – 9 7/16"	1' – 11 7/16"
Grille Options (See chart on this page)	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL

Double Hung –
True Radius Single Units

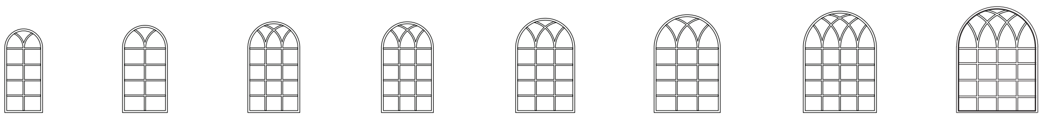
Standard Colonial Grille Pattern
Widths

Heights

Unit height dimension is listed first under individual windows

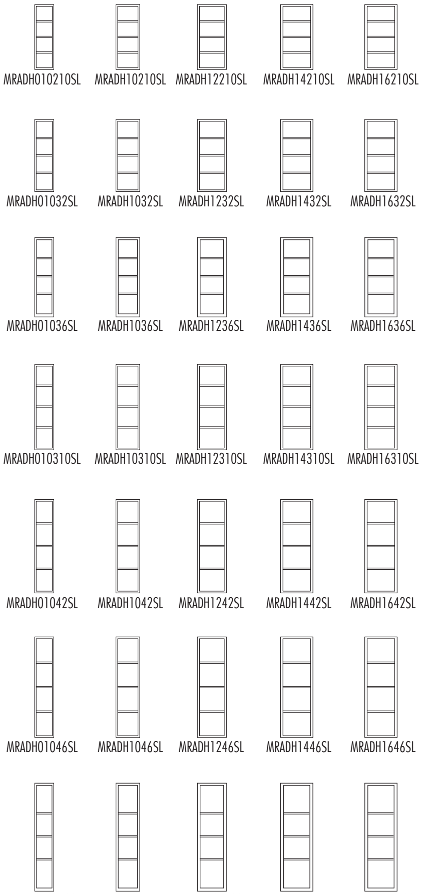
Rough Opening height dimension is listed second under individual windows

Unit Dimension	1' – 9 3/8"	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
Rough Opening	1' – 10 3/8"	2' – 2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' –10 3/8"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3 – 8
2 – 10	MRADH18210TR 3' – 11 1/4" 3' – 11 3/4"	MRADH20210TR 4' – 1 1/4" 4' – 1 3/4"	MRADH24210TR 4' – 3 1/4" 4' – 3 3/4"	MRADH26210TR 4' – 4 1/4" 4' – 4 3/4"	MRADH28210TR 4' – 5 1/4" 4' – 5 3/4"	MRADH30210TR 4' – 7 1/4" 4' – 7 3/4"	MRADH34210TR 4' – 9 1/4" 4' – 9 3/4"	MRADH38210TR 4' – 11 1/4" 4' – 11 3/4"
3 – 2	MRADH1832TR 4' – 3 1/4" 4' – 3 3/4"	MRADH2032TR 4' – 5 1/4" 4' – 5 3/4"	MRADH2432TR 4' – 7 1/4" 4' – 7 3/4"	MRADH2632TR 4' – 8 1/4" 4' – 8 3/4"	MRADH2832TR 4' – 9 1/4" 4' – 9 3/4"	MRADH3032TR 4' – 11 1/4" 4' – 11 3/4"	MRADH3432TR 5' – 1 1/4" 5' – 1 3/4"	MRADH3832TR 5' – 3 1/4" 5' – 3 3/4"
3 – 6	MRADH1836TR 4' – 7 1/4" 4' – 7 3/4"	MRADH2036TR 4' – 9 1/4" 4' – 9 3/4"	MRADH2436TR 4' – 11 1/4" 4' – 11 3/4"	MRADH2636TR 5' – 0 1/4" 5' – 0 3/4"	MRADH2836TR 5' – 1 1/4" 5' – 1 3/4"	MRADH3036TR 5' – 3 1/4" 5' – 3 3/4"	MRADH3436TR 5' – 5 1/4" 5' – 5 3/4"	MRADH3836TR 5' – 7 1/4" 5' – 7 3/4"
3 – 10	MRADH18310TR 4' – 11 1/4" 4' – 11 3/4"	MRADH20310TR 5' – 1 1/4" 5' – 1 3/4"	MRADH24310TR 5' – 3 1/4" 5' – 3 3/4"	MRADH26310TR 5' – 4 1/4" 5' – 4 3/4"	MRADH28310TR 5' – 5 1/4" 5' – 5 3/4"	MRADH30310TR 5' – 7 1/4" 5' – 7 3/4"	MRADH34310TR 5' – 9 1/4" 5' – 9 3/4"	MRADH38310TR 5' – 11 1/4" 5' – 11 3/4"
4 – 2	MRADH1842TR 5' – 3 1/4" 5' – 3 3/4"	MRADH2042TR 5' – 5 1/4" 5' – 5 3/4"	MRADH2442TR 5' – 7 1/4" 5' – 7 3/4"	MRADH2642TR 5' – 8 1/4" 5' – 8 3/4"	MRADH2842TR 5' – 9 1/4" 5' – 9 3/4"	MRADH3042TR 5' – 11 1/4" 5' – 11 3/4"	MRADH3442TR 6' – 1 1/4" 6' – 1 3/4"	MRADH3842TR 6' – 3 1/4" 6' – 3 3/4"
4 – 6	MRADH1846TR 5' – 7 1/4" 5' – 7 3/4"	MRADH2046TR 5' – 9 1/4" 5' – 9 3/4"	MRADH2446TR 5' – 11 1/4" 5' – 11 3/4"	MRADH2646TR 6' – 0 1/4" 6' – 0 3/4"	MRADH2846TR 6' – 1 1/4" 6' – 1 3/4"	MRADH3046TR 6' – 3 1/4" 6' – 3 3/4"	MRADH3446TR 6' – 5 1/4" 6' – 5 3/4"	MRADH3846TR 6' – 7 1/4" 6' – 7 3/4"
4 – 10	MRADH18410TR 5' – 11 1/4" 5' – 11 3/4"	MRADH20410TR 6' – 1 1/4" 6' – 1 3/4"	MRADH24410TR 6' – 3 1/4" 6' – 3 3/4"	MRADH26410TR 6' – 4 1/4" 6' – 4 3/4"	MRADH28410TR 6' – 5 1/4" 6' – 5 3/4"	MRADH30410TR 6' – 7 1/4" 6' – 7 3/4"	MRADH34410TR 6' – 9 1/4" 6' – 9 3/4"	MRADH38410TR 6' – 11 1/4" 6' – 11 3/4"



Optional Gothic Grille Pattern

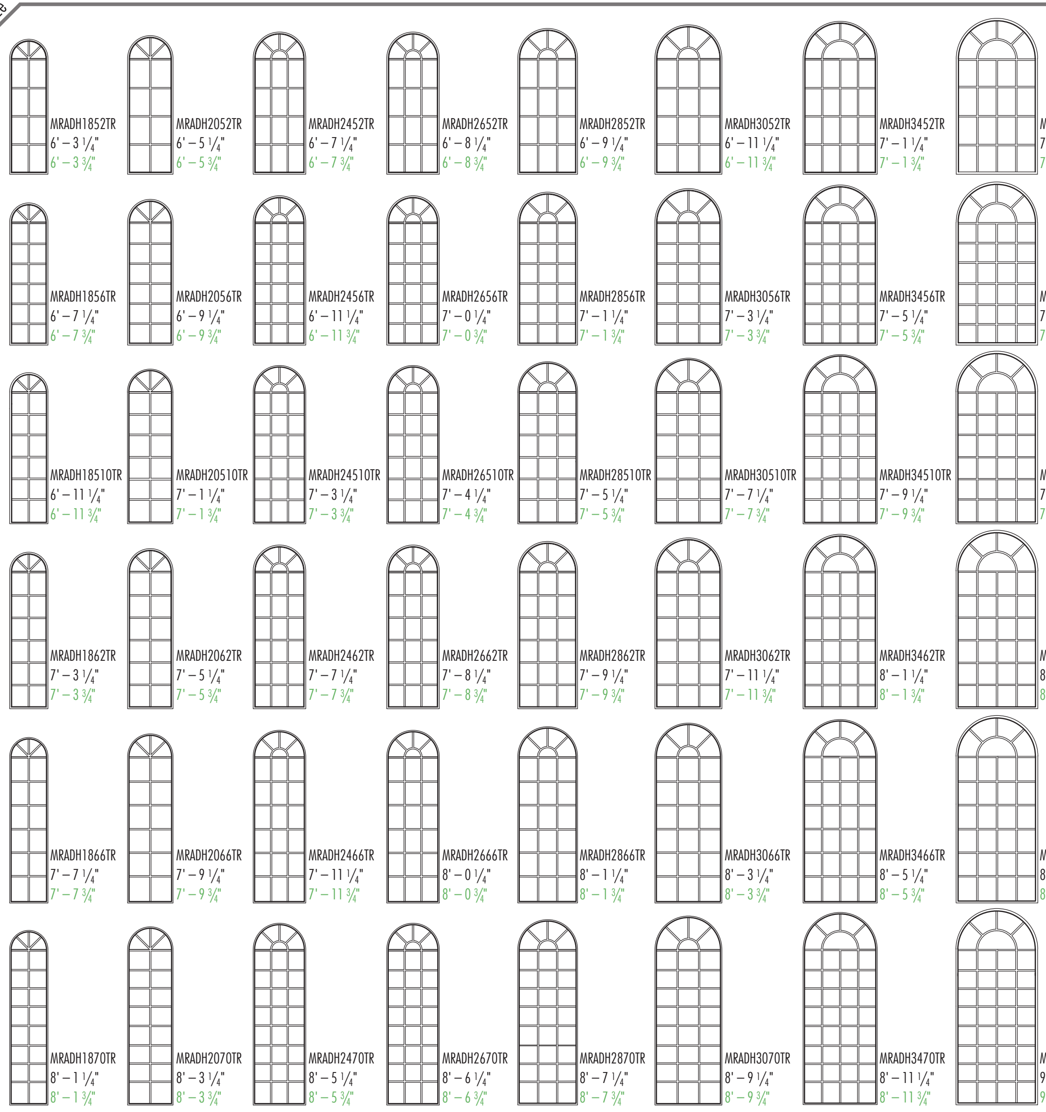
Widths



			0'-11 3/8"	1'-1 3/8"	1'-3 3/8"	1'-5 3/8"	1'-7 3/8"
			1'-0 3/8"	1'-2 3/8"	1'-4 3/8"	1'-6 3/8"	1'-8 3/8"
			0–10	1–0	1–2	1–4	1–6
2 – 10	3' – 1 1/16"	3' – 0 9/16"	MRADH010210SL	MRADH10210SL	MRADH12210SL	MRADH14210SL	MRADH16210SL
3 – 2	3' – 5 1/16"	3' – 4 9/16"	MRADH01032SL	MRADH1032SL	MRADH1232SL	MRADH1432SL	MRADH1632SL
3 – 6	3' – 9 1/16"	3' – 8 9/16"	MRADH01036SL	MRADH1036SL	MRADH1236SL	MRADH1436SL	MRADH1636SL
3 – 10	4' – 1 1/16"	4' – 0 9/16"	MRADH010310SL	MRADH10310SL	MRADH12310SL	MRADH14310SL	MRADH16310SL
4 – 2	4' – 5 1/16"	4' – 4 9/16"	MRADH01042SL	MRADH1042SL	MRADH1242SL	MRADH1442SL	MRADH1642SL
4 – 6	4' – 9 1/16"	4' – 8 9/16"	MRADH01046SL	MRADH1046SL	MRADH1246SL	MRADH1446SL	MRADH1646SL
4 – 10	5' – 1 1/16"	5' – 0 9/16"	MRADH010410SL	MRADH10410SL	MRADH12410SL	MRADH14410SL	MRADH16410SL

Double Hung –
True Radius Single Units

Standard Colonial Grille Pattern
Widths

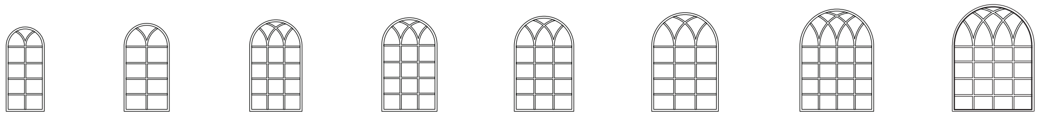


Heights

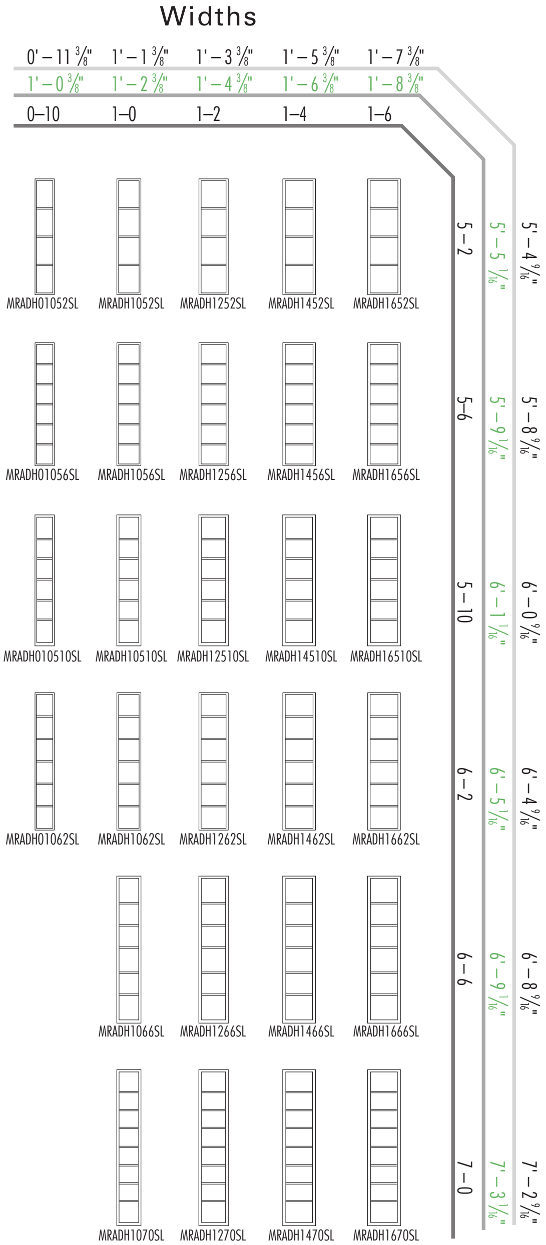
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	1' – 9 3/8"	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
Rough Opening	1' – 10 3/8"	2' – 2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' –10 3/8"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3 – 8
5 – 2	MRADH1852TR 6' – 3 1/4" 6' – 3 3/4"	MRADH2052TR 6' – 5 1/4" 6' – 5 3/4"	MRADH2452TR 6' – 7 1/4" 6' – 7 3/4"	MRADH2652TR 6' – 8 1/4" 6' – 8 3/4"	MRADH2852TR 6' – 9 1/4" 6' – 9 3/4"	MRADH3052TR 6' – 11 1/4" 6' – 11 3/4"	MRADH3452TR 7' – 1 1/4" 7' – 1 3/4"	MRADH3852TR 7' – 3 1/4" 7' – 3 3/4"
5 – 6	MRADH1856TR 6' – 7 1/4" 6' – 7 3/4"	MRADH2056TR 6' – 9 1/4" 6' – 9 3/4"	MRADH2456TR 6' – 11 1/4" 6' – 11 3/4"	MRADH2656TR 7' – 0 1/4" 7' – 0 3/4"	MRADH2856TR 7' – 1 1/4" 7' – 1 3/4"	MRADH3056TR 7' – 3 1/4" 7' – 3 3/4"	MRADH3456TR 7' – 5 1/4" 7' – 5 3/4"	MRADH3856TR 7' – 7 1/4" 7' – 7 3/4"
5 – 10	MRADH18510TR 6' – 11 1/4" 6' – 11 3/4"	MRADH20510TR 7' – 1 1/4" 7' – 1 3/4"	MRADH24510TR 7' – 3 1/4" 7' – 3 3/4"	MRADH26510TR 7' – 4 1/4" 7' – 4 3/4"	MRADH28510TR 7' – 5 1/4" 7' – 5 3/4"	MRADH30510TR 7' – 7 1/4" 7' – 7 3/4"	MRADH34510TR 7' – 9 1/4" 7' – 9 3/4"	MRADH38510TR 7' – 11 1/4" 7' – 11 3/4"
6 – 2	MRADH1862TR 7' – 3 1/4" 7' – 3 3/4"	MRADH2062TR 7' – 5 1/4" 7' – 5 3/4"	MRADH2462TR 7' – 7 1/4" 7' – 7 3/4"	MRADH2662TR 7' – 8 1/4" 7' – 8 3/4"	MRADH2862TR 7' – 9 1/4" 7' – 9 3/4"	MRADH3062TR 7' – 11 1/4" 7' – 11 3/4"	MRADH3462TR 8' – 1 1/4" 8' – 1 3/4"	MRADH3862TR 8' – 3 1/4" 8' – 3 3/4"
6 – 6	MRADH1866TR 7' – 7 1/4" 7' – 7 3/4"	MRADH2066TR 7' – 9 1/4" 7' – 9 3/4"	MRADH2466TR 7' – 11 1/4" 7' – 11 3/4"	MRADH2666TR 8' – 0 1/4" 8' – 0 3/4"	MRADH2866TR 8' – 1 1/4" 8' – 1 3/4"	MRADH3066TR 8' – 3 1/4" 8' – 3 3/4"	MRADH3466TR 8' – 5 1/4" 8' – 5 3/4"	MRADH3866TR 8' – 7 1/4" 8' – 7 3/4"
7 – 0	MRADH1870TR 8' – 1 1/4" 8' – 1 3/4"	MRADH2070TR 8' – 3 1/4" 8' – 3 3/4"	MRADH2470TR 8' – 5 1/4" 8' – 5 3/4"	MRADH2670TR 8' – 6 1/4" 8' – 6 3/4"	MRADH2870TR 8' – 7 1/4" 8' – 7 3/4"	MRADH3070TR 8' – 9 1/4" 8' – 9 3/4"	MRADH3470TR 8' – 11 1/4" 8' – 11 3/4"	MRADH3870TR 9' – 1 1/4" 9' – 1 3/4"



Optional Gothic Grille Pattern



Widths

0' – 11 3/8"	1' – 1 3/8"	1' – 3 3/8"	1' – 5 3/8"	1' – 7 3/8"			
1' – 0 3/8"	1' – 2 3/8"	1' – 4 3/8"	1' – 6 3/8"	1' – 8 3/8"			
0–10	1–0	1–2	1–4	1–6			
MRADH01052SL	MRADH1052SL	MRADH1252SL	MRADH1452SL	MRADH1652SL	5 – 2	5' – 5 1/16"	5' – 4 9/16"
MRADH01056SL	MRADH1056SL	MRADH1256SL	MRADH1456SL	MRADH1656SL	5–6	5' – 9 1/16"	5' – 8 9/16"
MRADH010510SL	MRADH10510SL	MRADH12510SL	MRADH14510SL	MRADH16510SL	5 – 10	6' – 1 1/16"	6' – 0 9/16"
MRADH01062SL	MRADH1062SL	MRADH1262SL	MRADH1462SL	MRADH1662SL	6 – 2	6' – 5 1/16"	6' – 4 9/16"
	MRADH1066SL	MRADH1266SL	MRADH1466SL	MRADH1666SL	6 – 6	6' – 9 1/16"	6' – 8 9/16"
	MRADH1070SL	MRADH1270SL	MRADH1470SL	MRADH1670SL	7 – 0	7' – 3 1/16"	7' – 2 9/16"

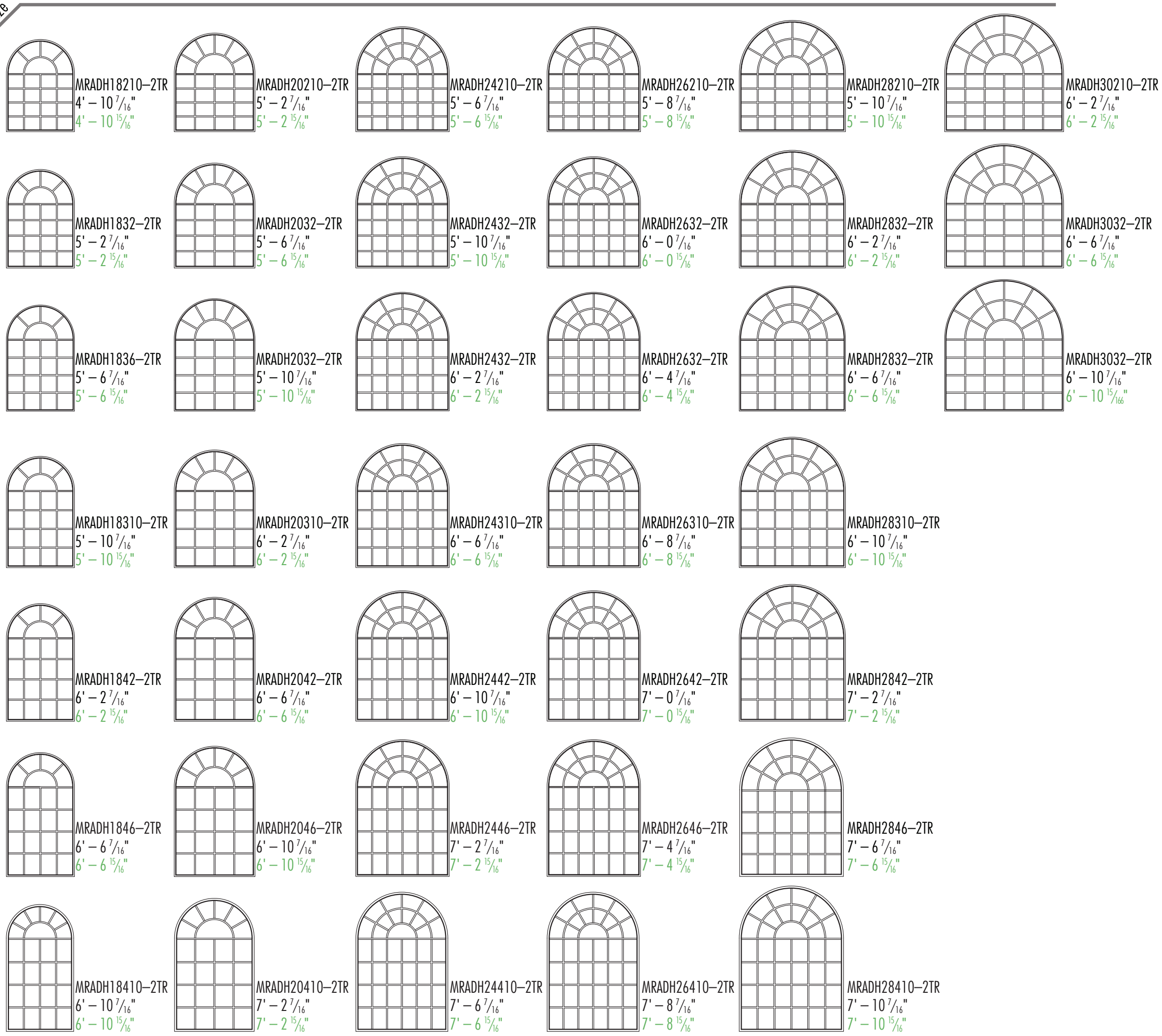
Double Hung –
True Radius Twin Units

Standard Colonial Grille Pattern
Widths

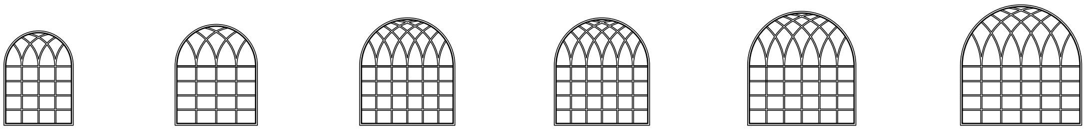
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

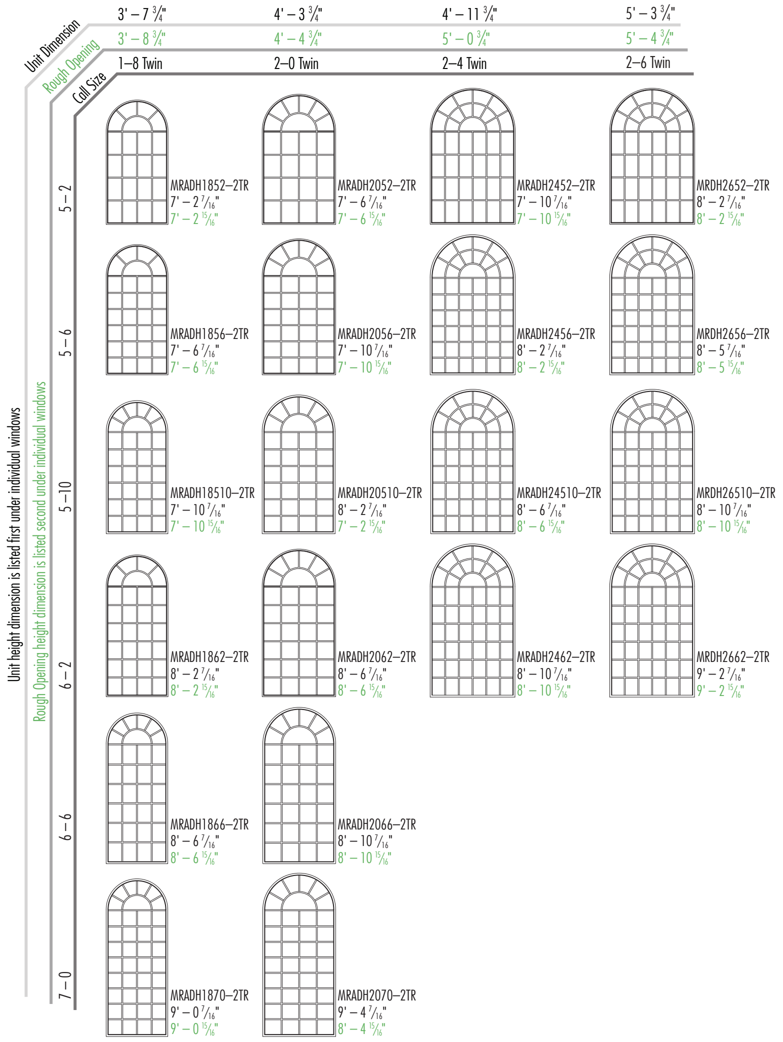


Unit Dimension	3' – 7 3/4"	4' – 3 3/4"	4' – 11 3/4"	5' – 3 3/4"	5' – 7 3/4"	6' – 3 3/4"
Rough Opening	3' – 8 3/4"	4' – 4 3/4"	5' – 0 3/4"	5' – 4 3/4"	5' – 8 3/4"	6' – 4 3/4"
Call Size	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin
2 – 10	MRADH18210–2TR 4' – 10 7/16" 4' – 10 15/16"	MRADH20210–2TR 5' – 2 7/16" 5' – 2 15/16"	MRADH24210–2TR 5' – 6 7/16" 5' – 6 15/16"	MRADH26210–2TR 5' – 8 7/16" 5' – 8 15/16"	MRADH28210–2TR 5' – 10 7/16" 5' – 10 15/16"	MRADH30210–2TR 6' – 2 7/16" 6' – 2 15/16"
3 – 2	MRADH1832–2TR 5' – 2 7/16" 5' – 2 15/16"	MRADH2032–2TR 5' – 6 7/16" 5' – 6 15/16"	MRADH2432–2TR 5' – 10 7/16" 5' – 10 15/16"	MRADH2632–2TR 6' – 0 7/16" 6' – 0 15/16"	MRADH2832–2TR 6' – 2 7/16" 6' – 2 15/16"	MRADH3032–2TR 6' – 6 7/16" 6' – 6 15/16"
3 – 6	MRADH1836–2TR 5' – 6 7/16" 5' – 6 15/16"	MRADH2032–2TR 5' – 10 7/16" 5' – 10 15/16"	MRADH2432–2TR 6' – 2 7/16" 6' – 2 15/16"	MRADH2632–2TR 6' – 4 7/16" 6' – 4 15/16"	MRADH2832–2TR 6' – 6 7/16" 6' – 6 15/16"	MRADH3032–2TR 6' – 10 7/16" 6' – 10 15/166"
3 – 10	MRADH18310–2TR 5' – 10 7/16" 5' – 10 15/16"	MRADH20310–2TR 6' – 2 7/16" 6' – 2 15/16"	MRADH24310–2TR 6' – 6 7/16" 6' – 6 15/16"	MRADH26310–2TR 6' – 8 7/16" 6' – 8 15/16"	MRADH28310–2TR 6' – 10 7/16" 6' – 10 15/16"	
4 – 2	MRADH1842–2TR 6' – 2 7/16" 6' – 2 15/16"	MRADH2042–2TR 6' – 6 7/16" 6' – 6 15/16"	MRADH2442–2TR 6' – 10 7/16" 6' – 10 15/16"	MRADH2642–2TR 7' – 0 7/16" 7' – 0 15/16"	MRADH2842–2TR 7' – 2 7/16" 7' – 2 15/16"	
4 – 6	MRADH1846–2TR 6' – 6 7/16" 6' – 6 15/16"	MRADH2046–2TR 6' – 10 7/16" 6' – 10 15/16"	MRADH2446–2TR 7' – 2 7/16" 7' – 2 15/16"	MRADH2646–2TR 7' – 4 7/16" 7' – 4 15/16"	MRADH2846–2TR 7' – 6 7/16" 7' – 6 15/16"	
4 – 10	MRADH18410–2TR 6' – 10 7/16" 6' – 10 15/16"	MRADH20410–2TR 7' – 2 7/16" 7' – 2 15/16"	MRADH24410–2TR 7' – 6 7/16" 7' – 6 15/16"	MRADH26410–2TR 7' – 8 7/16" 7' – 8 15/16"	MRADH28410–2TR 7' – 10 7/16" 7' – 10 15/16"	



Optional Gothic Grille Pattern

Standard Colonial Grille Pattern
Widths

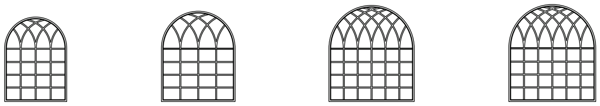


Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	3' – 7 3/4"	4' – 3 3/4"	4' – 11 3/4"	5' – 3 3/4"
Rough Opening	3' – 8 3/4"	4' – 4 3/4"	5' – 0 3/4"	5' – 4 3/4"
Call Size	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin
5 – 2	MRADH1852–2TR 7' – 2 7/16" 7' – 2 15/16"	MRADH2052–2TR 7' – 6 7/16" 7' – 6 15/16"	MRADH2452–2TR 7' – 10 7/16" 7' – 10 15/16"	MRDH2652–2TR 8' – 2 7/16" 8' – 2 15/16"
5 – 6	MRADH1856–2TR 7' – 6 7/16" 7' – 6 15/16"	MRADH2056–2TR 7' – 10 7/16" 7' – 10 15/16"	MRADH2456–2TR 8' – 2 7/16" 8' – 2 15/16"	MRDH2656–2TR 8' – 5 7/16" 8' – 5 15/16"
5 – 10	MRADH18510–2TR 7' – 10 7/16" 7' – 10 15/16"	MRADH20510–2TR 8' – 2 7/16" 7' – 2 15/16"	MRADH24510–2TR 8' – 6 7/16" 8' – 6 15/16"	MRDH26510–2TR 8' – 10 7/16" 8' – 10 15/16"
6 – 2	MRADH1862–2TR 8' – 2 7/16" 8' – 2 15/16"	MRADH2062–2TR 8' – 6 7/16" 8' – 6 15/16"	MRADH2462–2TR 8' – 10 7/16" 8' – 10 15/16"	MRDH2662–2TR 9' – 2 7/16" 9' – 2 15/16"
6 – 6	MRADH1866–2TR 8' – 6 7/16" 8' – 6 15/16"	MRADH2066–2TR 8' – 10 7/16" 8' – 10 15/16"		
7 – 0	MRADH1870–2TR 9' – 0 7/16" 9' – 0 15/16"	MRADH2070–2TR 9' – 4 7/16" 8' – 4 15/16"		



Optional Gothic Grille Pattern

Double Hung – Arch Picture Units

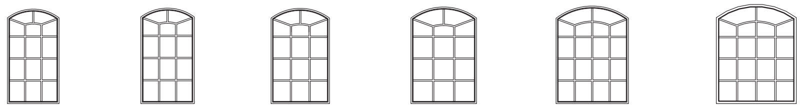
Standard Colonial Grille Pattern
Widths

Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	1' – 9 3/8"	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"
Rough Opening	1' – 10 3/8"	2' – 2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' – 10 3/8"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3–8
3 – 10	MRADH18310AH 4' – 4 1/8" 4' – 4 5/8"	MRADH20310AH 4' – 4 13/16" 4' – 5 5/16"	MRADH24310AH 4' – 5 7/16" 4' – 5 15/16"	MRADH26310AH 4' – 5 13/16" 4' – 6 5/16"	MRADH28310AH 4' – 6 1/8" 4' – 6 5/8"	MRADH30310AH 4' – 6 13/16" 4' – 7 5/16"	MRADH34310AH 4' – 7 7/16" 4' – 7 15/16"	MRADH38310AH 4' – 8 1/8" 4' – 8 5/8"
4 – 2	MRADH1842AH 4' – 8 1/8" 4' – 8 5/8"	MRADH2042AH 4' – 8 13/16" 4' – 9 5/16"	MRADH2442AH 4' – 9 7/16" 4' – 9 15/16"	MRADH2642AH 4' – 9 13/16" 4' – 10 5/16"	MRADH2842AH 4' – 10 1/8" 4' – 10 5/8"	MRADH3042AH 4' – 10 13/16" 4' – 11 5/16"	MRADH3442AH 4' – 11 7/16" 4' – 11 15/16"	MRADH3842AH 5' – 0 1/8" 5' – 0 5/8"
4 – 6	MRADH1846AH 5' – 0 1/8" 5' – 0 5/8"	MRADH2046AH 5' – 0 13/16" 5' – 1 5/16"	MRADH2446AH 5' – 1 7/16" 5' – 1 15/16"	MRADH2646AH 5' – 1 13/16" 5' – 2 5/16"	MRADH2846AH 5' – 2 1/8" 5' – 2 5/8"	MRADH3046AH 5' – 2 13/16" 5' – 3 5/16"	MRADH3446AH 5' – 3 7/16" 5' – 3 15/16"	MRADH3846AH 5' – 4 1/8" 5' – 4 5/8"
4 – 10	MRADH18410AH 5' – 4 1/8" 5' – 4 5/8"	MRADH20410AH 5' – 4 13/16" 5' – 5 5/16"	MRADH24410AH 5' – 5 7/16" 5' – 5 15/16"	MRADH26410AH 5' – 5 13/16" 5' – 6 5/16"	MRADH28410AH 5' – 6 1/8" 5' – 6 5/8"	MRADH30410AH 5' – 6 13/16" 5' – 7 5/16"	MRADH34410AH 5' – 7 7/16" 5' – 7 15/16"	MRADH38410AH 5' – 8 1/8" 5' – 8 5/8"
5 – 2	MRADH1852AH 5' – 8 1/8" 5' – 8 5/8"	MRADH2052AH 5' – 8 13/16" 5' – 9 5/16"	MRADH2452AH 5' – 9 7/16" 5' – 9 15/16"	MRADH2652AH 5' – 9 13/16" 5' – 10 5/16"	MRADH2852AH 5' – 10 1/8" 5' – 10 5/8"	MRADH3052AH 5' – 10 13/16" 5' – 11 5/16"	MRADH3452AH 5' – 11 7/16" 5' – 11 15/16"	MRADH3852AH 6' – 0 1/8" 6' – 0 5/8"
5 – 6	MRADH1856AH 6' – 0 1/8" 6' – 0 5/8"	MRADH2056AH 6' – 0 13/16" 6' – 1 5/16"	MRADH2456AH 6' – 1 7/16" 6' – 1 15/16"	MRADH2656AH 6' – 1 13/16" 6' – 2 5/16"	MRADH2856AH 6' – 2 1/8" 6' – 2 5/8"	MRADH3056AH 6' – 2 13/16" 6' – 3 5/16"	MRADH3456AH 6' – 3 7/16" 6' – 3 15/16"	MRADH3856AH 6' – 4 1/8" 6' – 4 5/8"
5 –10	MRADH18510AH 6' – 4 1/8" 6' – 4 5/8"	MRADH20510AH 6' – 4 13/16" 6' – 5 5/16"	MRADH24510AH 6' – 5 7/16" 6' – 5 15/16"	MRADH26510AH 6' – 5 13/16" 6' – 6 5/16"	MRADH28510AH 6' – 6 1/8" 6' – 6 5/8"	MRADH30510AH 6' – 6 13/16" 6' – 7 5/16"	MRADH34510AH 6' – 7 7/16" 6' – 7 15/16"	MRADH38510AH 6' – 8 1/8" 6' – 8 5/8"
6 – 2	MRADH1862AH 6' – 8 1/8" 6' – 8 5/8"	MRADH2062AH 6' – 8 13/16" 6' – 9 5/16"	MRADH2462AH 6' – 9 7/16" 6' – 9 15/16"	MRADH2662AH 6' – 9 13/16" 6' – 10 5/16"	MRADH2862AH 6' – 10 1/8" 6' – 10 5/8"	MRADH3062AH 6' – 10 13/16" 6' – 11 5/16"	MRADH3462AH 6' – 11 7/16" 6' – 11 15/16"	MRADH3862AH 7' – 0 1/8" 7' – 0 5/8"
6 – 6	MRADH1866AH 7' – 0 1/8" 7' – 0 5/8"	MRADH2066AH 7' – 0 13/16" 7' – 1 5/16"	MRADH2466AH 7' – 1 7/16" 7' – 1 15/16"	MRADH2666AH 7' – 1 13/16" 7' – 2 5/16"	MRADH2866AH 7' – 2 1/8" 7' – 2 5/8"	MRADH3066AH 7' – 2 13/16" 7' – 3 5/16"	MRADH3466AH 7' – 3 7/16" 7' – 3 15/16"	MRADH3866AH 7' – 4 1/8" 7' – 4 5/8"
7 – 0	MRADH1870AH 7' – 6 1/8" 7' – 6 5/8"	MRADH2070AH 7' – 6 13/16" 7' – 7 5/16"	MRADH2470AH 7' – 7 7/16" 7' – 7 15/16"	MRADH2670AH 7' – 7 13/16" 7' – 8 5/16"	MRADH2870AH 7' – 8 1/8" 7' – 8 5/8"	MRADH3070AH 7' – 8 13/16" 7' – 9 5/16"	MRADH3470AH 7' – 9 7/16" 7' – 9 15/16"	MRADH3870AH 7' – 10 1/8" 7' – 10 5/8"



Optional Renaissance Grille Pattern

Standard Colonial Grille Pattern

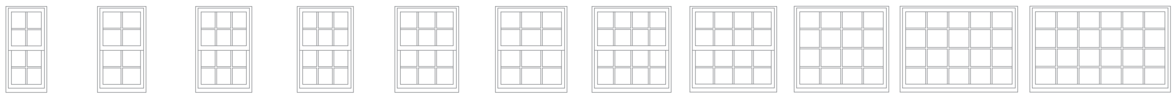
Widths

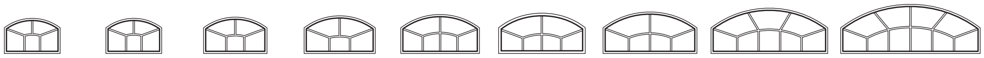
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	1' – 9 3/8"	2' – 1 3/8"	2' – 5 3/8"	2' – 7 3/8"	2' – 9 3/8"	3' – 1 3/8"	3' – 5 3/8"	3' – 9 3/8"	4' – 1 3/8"	5' – 1 3/8"	6' – 1 3/8"
Rough Opening	1' – 10 3/8"	2' – 2 3/8"	2' – 6 3/8"	2' – 8 3/8"	2' – 10 3/8"	3' – 2 3/8"	3' – 6 3/8"	3' – 10 3/8"	4' – 2 3/8"	5' – 2 3/8"	6' – 2 3/8"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3–8	4–0	5–0	6–0
0–6	MRADH1806AHTN 0' – 10 15/16" 0' – 11 7/16"	MRADH2006AHTN 0' – 11 5/8" 1' – 0 1/8"	MRADH2406AHTN 1' – 0 1/4" 1' – 0 3/4"	MRADH2606AHTN 1' – 0 5/8" 1' – 1 1/8"	MRADH2806AHTN 1' – 0 15/16" 1' – 1 7/16"	MRADH3006AHTN 1' – 1 5/8" 1' – 2 1/8"	MRADH3406AHTN 1' – 2 1/4" 1' – 2 3/4"	MRADH3806AHTN 1' – 2 15/16" 1' – 3 7/16"	MRADH4006AHTN 1' – 3 5/8" 1' – 4 1/8"	MRADH5006AHTN 1' – 5 5/8" 1' – 6 1/8"	MRADH6006AHTN 1' – 7 5/8" 1' – 8 1/8"
0–10	MRADH18010AHTN 1' – 2 15/16" 1' – 3 7/16"	MRADH20010AHTN 1' – 3 5/8" 1' – 4 1/8"	MRADH24010AHTN 1' – 4 1/4" 1' – 4 3/4"	MRADH26010AHTN 1' – 4 5/8" 1' – 5 1/8"	MRADH28010AHTN 1' – 4 15/16" 1' – 5 7/16"	MRADH30010AHTN 1' – 5 5/8" 1' – 6 1/8"	MRADH34010AHN 1' – 6 1/4" 1' – 6 3/4"	MRADH38010AHTN 1' – 6 15/16" 1' – 7 7/16"	MRADH40010AHTN 1' – 7 5/8" 1' – 8 1/8"	MRADH50010AHTN 1' – 9 5/8" 1' – 10 1/8"	MRADH60010AHTN 1' – 11 5/8" 2' – 0 1/8"
1–0	MRADH1810AHTN 1' – 4 15/16" 1' – 5 7/16"	MRADH2010AHTN 1' – 5 5/8" 1' – 6 1/8"	MRADH2410AHTN 1' – 6 1/4" 1' – 6 3/4"	MRADH2610AHTN 1' – 6 5/8" 1' – 7 1/8"	MRADH2810AHTN 1' – 6 15/16" 1' – 7 7/16"	MRADH3010AHTN 1' – 7 5/8" 1' – 8 1/8"	MRADH3410AHTN 1' – 8 1/4" 1' – 8 3/4"	MRADH3810AHTN 1' – 8 15/16" 1' – 9 7/16"	MRADH4010AHTN 1' – 9 5/8" 1' – 10 1/8"	MRADH5010AHTN 1' – 11 5/8" 2' – 0 1/8"	MRADH6010AHTN 2' –1 5/8" 2' – 2 1/8"
1–2	MRADH1812AHTN 1' – 6 15/16" 1' – 7 7/16"	MRADH2012AHTN 1' – 7 5/8" 1' – 8 1/8"	MRADH2412AHTN 1' – 8 1/4" 1' – 8 3/4"	MRADH2612AHTN 1' – 8 5/8" 1' – 9 1/8"	MRADH2812AHTN 1' – 8 15/16" 1' – 9 7/16"	MRADH3012AHTN 1' –9 5/8" 1' – 10 1/8"	MRADH3412AHTN 1' – 10 1/4" 1' – 10 3/4"	MRADH3812AHTN 1' – 10 15/16" 1' – 11 7/16"	MRADH4012AHTN 1' – 11 5/8" 2' – 0 1/8"	MRADH5012AHTN 2' – 1 5/8" 2' – 2 1/8"	MRADH6012AHTN 2' – 3 5/8" 2' – 4 1/8"
1–6	MRADH1816AHTN 1' – 10 15/16" 1' – 11 7/16"	MRADH2016AHTN 1' – 11 5/8" 2' – 0 1/8"	MRADH2416AHTN 2' – 0 1/4" 2' – 0 3/4"	MRADH2616AHTN 2' – 0 5/8" 2' – 10 1/8"	MRADH2816AHTN 2' – 0 15/16" 2' – 1 7/16"	MRADH3016AHTN 2' – 1 5/8" 2' – 2 1/8"	MRADH3416AHTN 2' – 2 1/4" 2' – 2 3/4"	MRADH3816AHTN 2' – 2 15/16" 2' – 3 7/16"	MRADH4016AHTN 2' – 3 5/8" 2' – 4 1/8"	MRADH5016AHTN 2' – 5 5/8" 2' – 6 1/8"	MRADH6016AHTN 2' – 7 5/8" 2' – 8 1/8"
2–0	MRADH1820AHTN 2' – 4 15/16" 2' – 5 7/16"	MRADH2020AHTN 2' – 5 5/8" 2' – 6 1/8"	MRADH2420AHTN 2' – 6 1/4" 2' – 6 3/4"	MRADH2620AHTN 2' – 6 5/8" 2' – 7 1/8"	MRADH2820AHTN 2' – 6 15/16" 2' – 7 7/16"	MRADH3020AHTN 2' – 7 5/8" 2' – 8 1/8"	MRADH3420AHTN 2' – 8 1/4" 2' – 8 3/4"	MRADH3820AHTN 2' – 8 15/16" 2' – 9 7/16"	MRADH4020AHTN 2' – 9 5/8" 2' – 10 1/8"	MRADH5020AHTN 2' – 11 7/8" 3' – 0 1/8"	MRADH6020AHTN 3' – 1 5/8" 3' – 2 1/8"





Optional Renaissance Grille Pattern

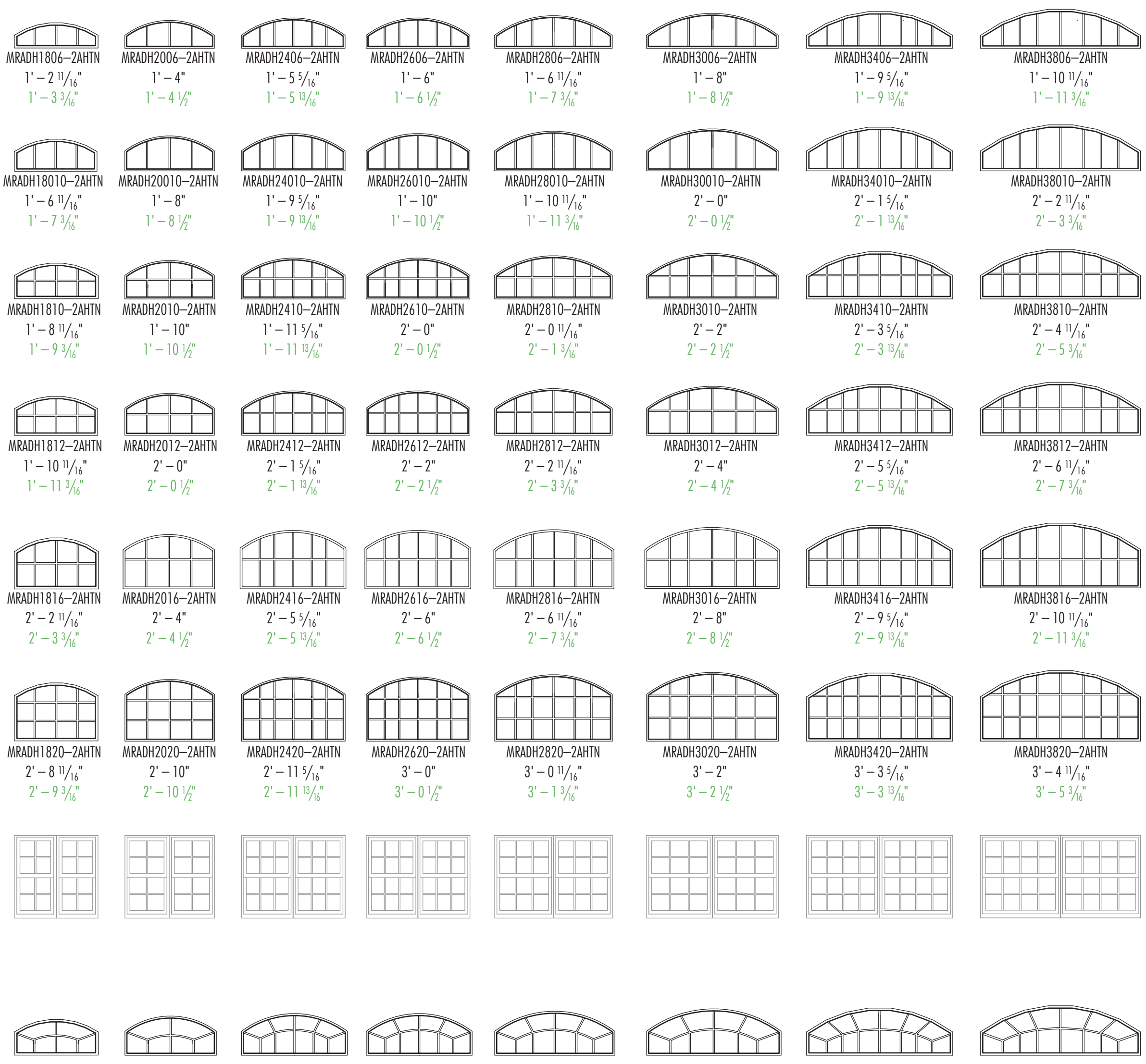
Double Hung –
Arch Transom Twin Units

Standard Colonial Grille Pattern
Widths

Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows



Unit Dimension	3' – 7 3/4"	4' – 3 3/4"	4' – 11 3/4"	5' – 3 3/4"	5' – 7 3/4"	6' – 3 3/4"	6' – 11 3/4"	7' – 7 3/4"
Rough Opening	3' – 8 3/4"	4' – 4 3/4"	5' – 0 3/4"	5' – 4 3/4"	5' – 8 3/4"	6' – 4 3/4"	7' – 0 3/4"	7' – 8 3/4"
Call Size	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin	3–4 Twin	3–8 Twin
0–6	MRADH1806–2AHTN 1' – 2 11/16" 1' – 3 3/16"	MRADH2006–2AHTN 1' – 4" 1' – 4 1/2"	MRADH2406–2AHTN 1' – 5 5/16" 1' – 5 13/16"	MRADH2606–2AHTN 1' – 6" 1' – 6 1/2"	MRADH2806–2AHTN 1' – 6 11/16" 1' – 7 3/16"	MRADH3006–2AHTN 1' – 8" 1' – 8 1/2"	MRADH3406–2AHTN 1' – 9 5/16" 1' – 9 13/16"	MRADH3806–2AHTN 1' – 10 11/16" 1' – 11 3/16"
0–10	MRADH18010–2AHTN 1' – 6 11/16" 1' – 7 3/16"	MRADH20010–2AHTN 1' – 8" 1' – 8 1/2"	MRADH24010–2AHTN 1' – 9 5/16" 1' – 9 13/16"	MRADH26010–2AHTN 1' – 10" 1' – 10 1/2"	MRADH28010–2AHTN 1' – 10 11/16" 1' – 11 3/16"	MRADH30010–2AHTN 2' – 0" 2' – 0 1/2"	MRADH34010–2AHTN 2' – 1 5/16" 2' – 1 13/16"	MRADH38010–2AHTN 2' – 2 11/16" 2' – 3 3/16"
1–0	MRADH1810–2AHTN 1' – 8 11/16" 1' – 9 3/16"	MRADH2010–2AHTN 1' – 10" 1' – 10 1/2"	MRADH2410–2AHTN 1' – 11 5/16" 1' – 11 13/16"	MRADH2610–2AHTN 2' – 0" 2' – 0 1/2"	MRADH2810–2AHTN 2' – 0 11/16" 2' – 1 3/16"	MRADH3010–2AHTN 2' – 2" 2' – 2 1/2"	MRADH3410–2AHTN 2' – 3 5/16" 2' – 3 13/16"	MRADH3810–2AHTN 2' – 4 11/16" 2' – 5 3/16"
1–2	MRADH1812–2AHTN 1' – 10 11/16" 1' – 11 3/16"	MRADH2012–2AHTN 2' – 0" 2' – 0 1/2"	MRADH2412–2AHTN 2' – 1 5/16" 2' – 1 13/16"	MRADH2612–2AHTN 2' – 2" 2' – 2 1/2"	MRADH2812–2AHTN 2' – 2 11/16" 2' – 3 3/16"	MRADH3012–2AHTN 2' – 4" 2' – 4 1/2"	MRADH3412–2AHTN 2' – 5 5/16" 2' – 5 13/16"	MRADH3812–2AHTN 2' – 6 11/16" 2' – 7 3/16"
1–6	MRADH1816–2AHTN 2' – 2 11/16" 2' – 3 3/16"	MRADH2016–2AHTN 2' – 4" 2' – 4 1/2"	MRADH2416–2AHTN 2' – 5 5/16" 2' – 5 13/16"	MRADH2616–2AHTN 2' – 6" 2' – 6 1/2"	MRADH2816–2AHTN 2' – 6 11/16" 2' – 7 3/16"	MRADH3016–2AHTN 2' – 8" 2' – 8 1/2"	MRADH3416–2AHTN 2' – 9 5/16" 2' – 9 13/16"	MRADH3816–2AHTN 2' – 10 11/16" 2' – 11 3/16"
2–0	MRADH1820–2AHTN 2' – 8 11/16" 2' – 9 3/16"	MRADH2020–2AHTN 2' – 10" 2' – 10 1/2"	MRADH2420–2AHTN 2' – 11 5/16" 2' – 11 13/16"	MRADH2620–2AHTN 3' – 0" 3' – 0 1/2"	MRADH2820–2AHTN 3' – 0 11/16" 3' – 1 3/16"	MRADH3020–2AHTN 3' – 2" 3' – 2 1/2"	MRADH3420–2AHTN 3' – 3 5/16" 3' – 3 13/16"	MRADH3820–2AHTN 3' – 4 11/16" 3' – 5 3/16"

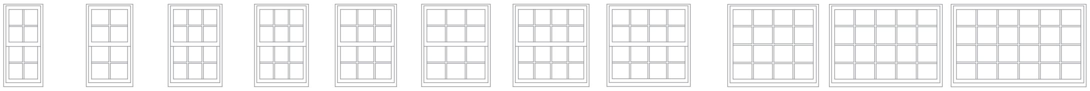
Optional Renaissance Grille Pattern

Double Hung –Transom Units

Single Widths

Heights

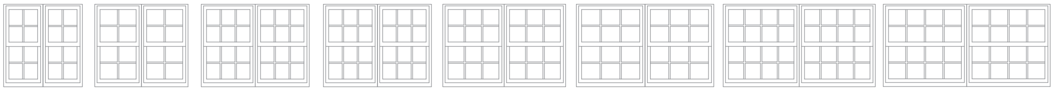
		Unit Dimension	1'–9 3/8"	2'–1 3/8"	2'–5 3/8"	2'–7 3/8"	2'–9 3/8"	3'–1 3/8"	3'–5 3/8"	3'–9 3/8"	4'–1 3/8"	5'–1 3/8"	6'–1 3/8"
		Rough Opening	1' –10 3/8"	2'–2 3/8"	2'–6 3/8"	2'–8 3/8"	2'–10 3/8"	3'–2 3/8"	3'–6 3/8"	3'–10 3/8"	4'–2 3/8"	5'–2 3/8"	6'–2 3/8"
Unit Dimension	Rough Opening	Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–4	3–8	4–0 Picture	5–0 Picture	6–0 Picture
0–11 3/8"	0–11 7/8"	0–10	MRADH18010TN	MRADH20010TN	MRADH24010TN	MRADH26010TN	MRADH28010TN	MRADH30010TN	MRADH34010TN	MRADH38010TN	MRADH40010–PTN	MRADH50010–PTN	MRADH60010–PTN
1'–1 3/8"	1'–1 7/8"	1–0	MRADH1810TN	MRADH2010TN	MRADH2410TN	MRADH2610TN	MRADH2810TN	MRADH3010TN	MRADH3410TN	MRADH3810TN	MRADH4010–PTN	MRADH5010–PTN	MRADH6010–PTN
1'–3 3/8"	1'–3 7/8"	1–2	MRADH1812TN	MRADH2012TN	MRADH2412TN	MRADH2612TN	MRADH2812TN	MRADH3012TN	MRADH3412TN	MRADH3812TN	MRADH4012–PTN	MRADH5012–PTN	MRADH6012–PTN
1'–7 3/8"	1'–7 7/8"	1–6	MRADH1816TN	MRADH2016TN	MRADH2416TN	MRADH2616TN	MRADH2816TN	MRADH3016TN	MRADH3416TN	MRADH3816TN	MRADH4016–PTN	MRADH5016–PTN	MRADH6016–PTN
2'–1 3/8"	2'–1 7/8"	2–0	MRADH1820TN	MRADH2020TN	MRADH2420TN	MRADH2620TN	MRADH2820TN	MRADH3020TN	MRADH3420TN	MRADH3820TN	MRADH4020–PTN	MRADH5020–PTN	MRADH6020–PTN
2'–5 3/8"	2'–5 7/8"	2–4	MRADH1824TN	MRADH2024TN	MRADH2424TN	MRADH2624TN	MRADH2824TN	MRADH3024TN	MRADH3424TN	MRADH3824TN	MRADH4024–PTN	MRADH5024–PTN	MRADH6024–PTN



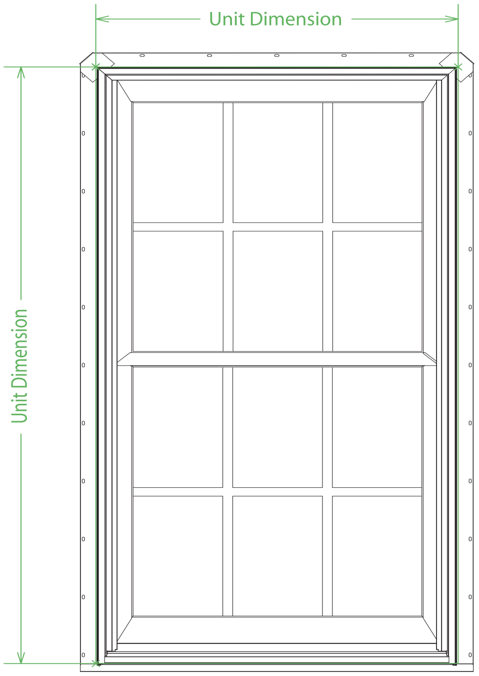
Twin Widths

Heights

		Unit Dimension	3'–7 3/4"	4' – 3 3/4"	4' – 11 3/4"	5' – 3 3/4"	5' – 7 3/4"	6' – 3 3/4"	6'–11 3/4"	7'–7 3/4"
		Rough Opening	3'–8 3/4"	4' – 4 3/4"	5' – 0 3/4"	5' – 4 3/4"	5' – 8 3/4"	6' – 4 3/4"	7'–0 3/4"	7'–8 3/4"
Unit Dimension	Rough Opening	Call Size	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin	3–4 Twin	3–8 Twin
0–11 3/8"	0–11 7/8"	0–10	MRADH18010–2TN	MRADH20010–2TN	MRADH24010–2TN	MRADH26010–2TN	MRADH28010–2TN	MRADH30010–2TN		
1'–1 3/8"	1'–1 7/8"	1–0	MRADH1810–2TN	MRADH2010–2TN	MRADH2410–2TN	MRADH2610–2TN	MRADH2810–2TN	MRADH3010–2TN	MRADH3410–2TN	MRADH3810–2TN
1'–3 3/8"	1'–3 7/8"	1–2	MRADH1812–2TN	MRADH2012–2TN	MRADH2412–2TN	MRADH2612–2TN	MRADH2812–2TN	MRADH3012–2TN	MRADH3412–2TN	MRADH3812–2TN
1'–7 3/8"	1'–7 7/8"	1–6	MRADH1816–2TN	MRADH2016–2TN	MRADH2416–2TN	MRADH2616–2TN	MRADH2816–2TN	MRADH3016–2TN	MRADH3416–2TN	MRADH3816–2TN
2'–1 3/8"	2'–1 7/8"	2–0	MRADH1820–2TN	MRADH2020–2TN	MRADH2420–2TN	MRADH2620–2TN	MRADH2820–2TN	MRADH3020–2TN	MRADH3420–2TN	MRADH3820–2TN
2'–5 3/8"	2'–5 7/8"	2–4	MRADH1824–2TN	MRADH2024–2TN	MRADH2424–2TN	MRADH2624–2TN	MRADH2824–2TN	MRADH3024–2TN	MRADH3424–2TN	MRADH3824–2TN



Double Hung – Actual Unit Dimensions



To calculate unit dimension on multiple units, add 1” per mull together with actual unit dimension.

Operating Units, WIDTH

CALL SIZE (WIDTH)	1-8	2-0	2-4	2-6	2-8	3-0	3-4	3-8
SINGLE	21-3/8	25-3/8	29-3/8	31-3/8	33-3/8	37-3/8	41-3/8	45-3/8
TWIN	43-3/4	51-3/4	59-3/4	63-3/4	67-3/4	75-3/4	83-3/4	91-3/4
TRIPLE	66-1/8	78-1/8	90-1/8	96-1/8	102-1/8	114-1/8	N/A	N/A
FOUR WIDE	88-1/2	104-1/2	120-1/2	N/A	N/A	N/A	N/A	N/A

Operating & Fixed Units, HEIGHT

CALL SIZE (HEIGHT)	HEIGHT IN INCHES
2-10	36-9/16
3-2	41-9/16
3-10	49-9/16
4-2	53-9/16
4-6	57-9/16
4-10	60-9/16
5-2	65-9/16
5-6C	69-9/16
5-6E	69-9/16
5-10	72-9/16
6-2	77-9/16
6-6	80-9/16

Fixed Units, WIDTH

CALL SIZE (WIDTH)	3-0	3-4	4-0	5-0	6-0
SINGLE	37-3/8	41-3/8	49-3/8	61-3/8	73-3/8
TWIN	75-3/4	83-3/4	99-3/4	N/A	N/A
TRIPLE	114-1/8	N/A	N/A	N/A	N/A

Transom Units, WIDTH

CALL SIZE (WIDTH)	1-0	1-2	1-4	1-8	2-0	2-4	2-6	2-8
SINGLE	13-3/8	15-3/8	17-3/8	21-3/8	25-3/8	29-3/8	31-3/8	33-3/8
TWIN	27-3/4	31-3/4	35-3/4	43-3/4	51-3/4	59-3/4	63-3/4	67-3/4
TRIPLE	43-1/8	49-1/8	55-1/8	67-1/8	79-1/8	91-1/8	96-1/8	103-1/8

Transom Units, HEIGHT

CALL SIZE (HEIGHT)	HEIGHT IN INCHES
0-10	11-3/8
1-0	13-3/8
1-2	15-3/8
1-6	17-3/8
2-0	25-5/8
2-4	29-5/8

Double Hung – Net Clear & Daylight Opening Dimensions

NOTE: Units listed in green satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Operating Units

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRADH18210	17.672	14.500	1.78	2.8
32	17.672	16.500	2.02	3.2
36	17.672	18.500	2.27	3.6
310	17.672	20.500	2.52	4.1
42	17.672	22.500	2.76	4.5
46	17.672	24.500	3.01	4.9
410	17.672	26.500	3.25	5.3
52	17.672	28.500	3.50	5.7
56E	17.672	30.500	3.74	6.1
56C	17.672	24.500	3.01	6.1
510	17.672	32.500	3.99	6.5
62	17.672	34.500	4.23	7.0
66	17.672	36.500	4.48	7.4
70	17.672	39.500	4.85	8.0
MRADH20210	21.672	14.500	2.18	3.6
32	21.672	16.500	2.48	4.1
36	21.672	18.500	2.78	4.6
310	21.672	20.500	3.09	5.1
42	21.672	22.500	3.39	5.7
46	21.672	24.500	3.69	6.2
410	21.672	26.500	3.99	6.7
52	21.672	28.500	4.29	7.2
56E	21.672	30.500	4.59	7.8
56C	21.672	24.500	3.69	7.8
510	21.672	32.500	4.89	8.3
62	21.672	34.500	5.19	8.8
66	21.672	36.500	5.49	9.3
70	21.672	39.500	5.94	10.1
MRADH24210	25.672	14.500	2.59	4.3
32	25.672	16.500	2.94	5.0
36	25.672	18.500	3.30	5.6
310	25.672	20.500	3.65	6.2
42	25.672	22.500	4.01	6.9
46	25.672	24.500	4.37	7.5
410	25.672	26.500	4.72	8.1
52	25.672	28.500	5.08	8.8
56E	25.672	30.500	5.44	9.4
56C	25.672	24.500	4.37	9.4
510	25.672	32.500	5.79	10.0
62	25.672	34.500	6.15	10.7
66	25.672	36.500	6.51	11.3
70	25.672	39.500	7.04	12.3
MRADH26210	27.672	14.500	2.79	4.7
32	27.672	16.500	3.17	5.4
36	27.672	18.500	3.56	6.1
310	27.672	20.500	3.94	7.8
42	27.672	22.500	4.32	7.5
46	27.672	24.500	4.71	8.2
410	27.672	26.500	5.09	8.8
52	27.672	28.500	5.48	9.5
56E	27.672	30.500	5.86	10.2
56C	27.672	24.500	4.71	10.2
510	27.672	32.500	6.25	10.9
62	27.672	34.500	6.63	11.6
66	27.672	36.500	7.01	12.3
70	27.672	39.500	7.59	13.3

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRADH28210	29.672	14.500	2.99	5.1
32	29.672	16.500	3.40	5.8
36	29.672	18.500	3.81	6.6
310	29.672	20.500	4.22	7.3
42	29.672	22.500	4.64	8.1
46	29.672	24.500	5.05	8.8
410	29.672	26.500	5.46	9.6
52	29.672	28.500	5.87	10.3
56E	29.672	30.500	6.28	11.1
56C	29.672	24.500	5.05	11.1
510	29.672	32.500	6.70	11.8
62	29.672	34.500	7.11	12.5
66	29.672	36.500	7.52	13.3
70	29.672	39.500	8.14	14.4
MRADH30210	33.672	14.500	3.39	5.8
32	33.672	16.500	3.86	6.7
36	33.672	18.500	4.33	7.5
310	33.672	20.500	4.79	8.4
42	33.672	22.500	5.26	9.3
46	33.672	24.500	5.73	10.1
410	33.672	26.500	6.20	11.0
52	33.672	28.500	6.66	11.8
56E	33.672	30.500	7.13	12.7
56C	33.672	24.500	5.73	12.7
510	33.672	32.500	7.60	13.6
62	33.672	34.500	8.07	14.4
66	33.672	36.500	8.53	15.3
70	33.672	39.500	9.24	16.6
MRADH34210	37.672	14.500	3.79	6.6
32	37.672	16.500	4.32	7.5
36	37.672	18.500	4.84	8.5
310	37.672	20.500	5.36	9.5
42	37.672	22.500	5.89	10.5
46	37.672	24.500	6.41	11.4
410	37.672	26.500	6.93	12.4
52	37.672	28.500	7.46	13.4
56E	37.672	30.500	7.98	14.3
56C	37.672	24.500	6.41	14.3
510	37.672	32.500	8.50	15.3
62	37.672	34.500	9.03	16.3
66	37.672	36.500	9.55	17.2
70	37.672	39.500	10.33	18.7
MRADH38210	41.672	14.500	4.20	7.3
32	41.672	16.500	4.77	8.4
36	41.672	18.500	5.35	9.5
310	41.672	20.500	5.93	10.6
42	41.672	22.500	6.51	11.6
46	41.672	24.500	7.09	12.7
410	41.672	26.500	7.67	13.8
52	41.672	28.500	8.25	14.9
56E	41.672	30.500	8.83	16.0
56C	41.672	24.500	7.09	16.0
510	41.672	32.500	9.41	17.1
62	41.672	34.500	9.98	18.1
66	41.672	36.500	10.56	19.2
70	41.672	39.500	11.43	20.8

Double Hung – Daylight Opening Dimensions

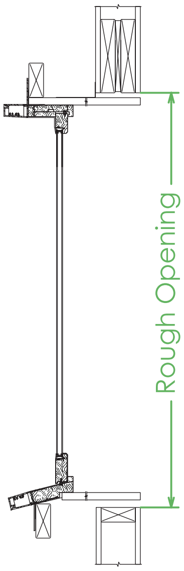
Fixed Units

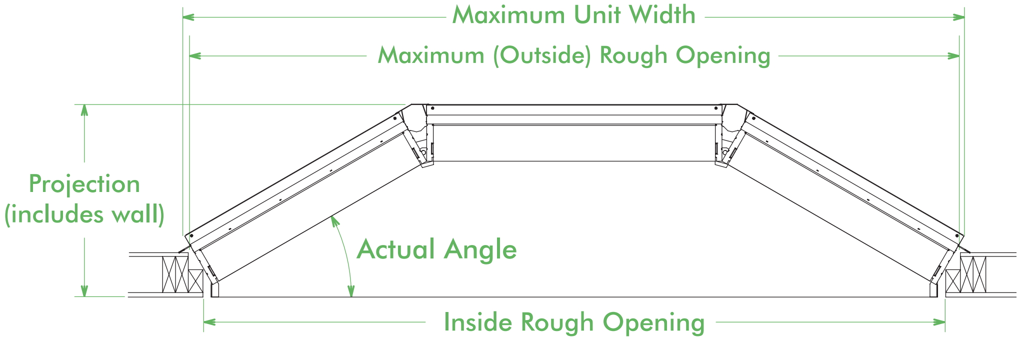
Call Size	Daylight Opening S.F.
MRADH10210P	1.4
32	1.6
36	1.8
310	2.0
42	2.2
46	2.4
410	2.5
52	2.7
56	2.9
510	3.1
62	3.3
66	3.5
70	3.8
MRADH18210P	3.0
32	3.4
36	3.8
310	4.2
42	4.6
46	5.1
410	5.5
52	5.9
56	6.3
510	6.7
62	7.1
66	7.6
70	8.2
MRADH20210P	3.8
32	4.3
36	4.8
310	5.4
42	5.9
46	6.4
410	6.9
52	7.5
56	8.0
510	8.5
62	9.0
66	9.6
70	10.4
MRADH24210P	4.6
32	5.2
36	5.9
310	6.5
42	7.1
46	7.8
410	8.4
52	9.0
56	9.7
510	10.3
62	11.0
66	11.6
70	12.6

Call Size	Daylight Opening S.F.
MRADH26210P	5.0
32	5.7
36	6.4
310	7.1
42	7.8
46	8.5
410	9.1
52	9.8
56	10.5
510	11.2
62	11.9
66	12.6
70	13.6
MRADH28210P	5.4
32	6.1
36	6.9
310	7.6
42	8.4
46	9.1
410	9.9
52	10.6
56	11.4
510	12.1
62	12.9
66	13.6
70	14.7
MRADH30210P	6.2
32	7.1
36	7.9
310	8.8
42	9.6
46	10.5
410	11.3
52	12.2
56	13.1
510	13.9
62	14.8
66	15.6
70	16.9
MRADH34210P	7.0
32	8.0
36	8.9
310	9.9
42	10.9
46	11.8
410	12.8
52	13.8
56	14.8
510	15.7
62	16.7
66	17.7
70	19.1

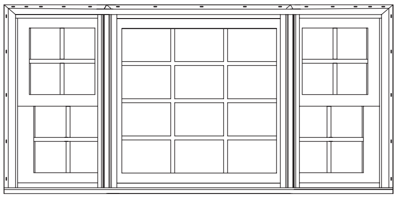
Call Size	Daylight Opening S.F.
MRADH38210P	7.8
32	8.9
36	10.0
310	11.0
42	12.1
46	13.2
410	14.3
52	15.4
56	16.4
510	17.5
62	18.6
66	19.7
70	21.3
MRADH40210P	8.6
32	9.8
36	11.0
310	12.2
42	13.4
46	14.6
410	15.7
52	16.9
56	18.1
510	19.3
62	20.5
66	21.7
70	23.5
MRADH50210P	11.0
32	12.5
36	14.0
310	15.6
42	17.1
46	18.6
410	20.2
52	21.7
56	23.2
510	24.7
62	26.3
66	27.8
70	30.1
MRADH60210P	13.4
32	15.3
36	17.1
310	19.0
42	20.8
46	22.7
410	24.6
52	26.4
56	28.3
510	30.1
62	32.0
66	33.8
70	36.6

Double Hung – Bay Window Details

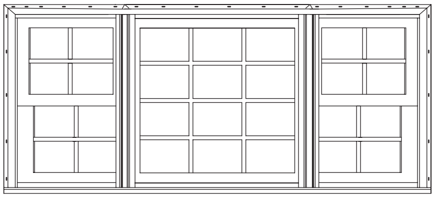




30° Angle Bay with 1-8 Flankers



30° Angle Bay with 2-0 Flankers

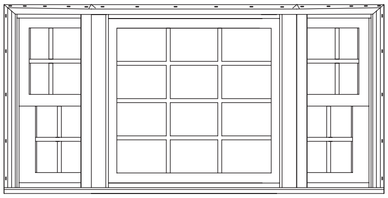


HEIGHTS			
Call Size	Bay Unit	Inside Dimension	Rough Opening
2/10	37-5/16	35-7/16	37-13/16
3/2	41-5/16	39-7/16	41-13/16
3/10	49-5/16	47-7/16	49-13/16
4/2	53-5/16	51-7/16	53-13/16
4/6	57-5/16	55-7/16	57-13/16
5/2	65-5/16	63-7/16	65-13/16
5/6	69-5/16	67-7/16	69-13/16
6/2	77-5/16	75-7/16	77-13/16

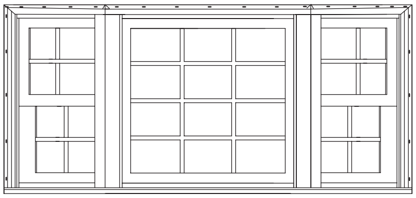
WIDTHS					
Call Size	Max. Unit	Max. Ext. Rough Opening	Inside Rough Opening	Projection	Actual Angle
MRADH1830xx-30	80-13/16	80-3/16	75-9/16	17-7/8	30°
MRADH1834xx-30	84-13/16	84-3/16	79-9/16	17-7/8	30°
MRADH1838xx-30	88-13/16	88-3/16	83-9/16	17-7/8	30°
MRADH1840xx-30	92-13/16	92-3/16	87-9/16	17-7/8	30°
MRADH1850xx-30	104-13/16	104-3/16	99-9/16	17-7/8	30°
MRADH1860xx-30	116-13/16	116-3/16	111-9/16	17-7/8	30°
MRADH2030xx-30	87-3/4	87-1/8	82-1/2	19-7/8	30°
MRADH2034xx-30	91-3/4	91-1/8	86-1/2	19-7/8	30°
MRADH2038xx-30	95-3/4	95-1/8	90-1/2	19-7/8	30°
MRADH2040xx-30	99-3/4	99-1/8	94-1/2	19-7/8	30°
MRADH2050xx-30	111-3/4	111-1/8	106-1/2	19-7/8	30°
MRADH2060xx-30	123-3/4	123-1/8	118-1/2	19-7/8	30°

Note: Projections include 4-9/16" wall.

45° Angle Bay with 1-8 Flankers

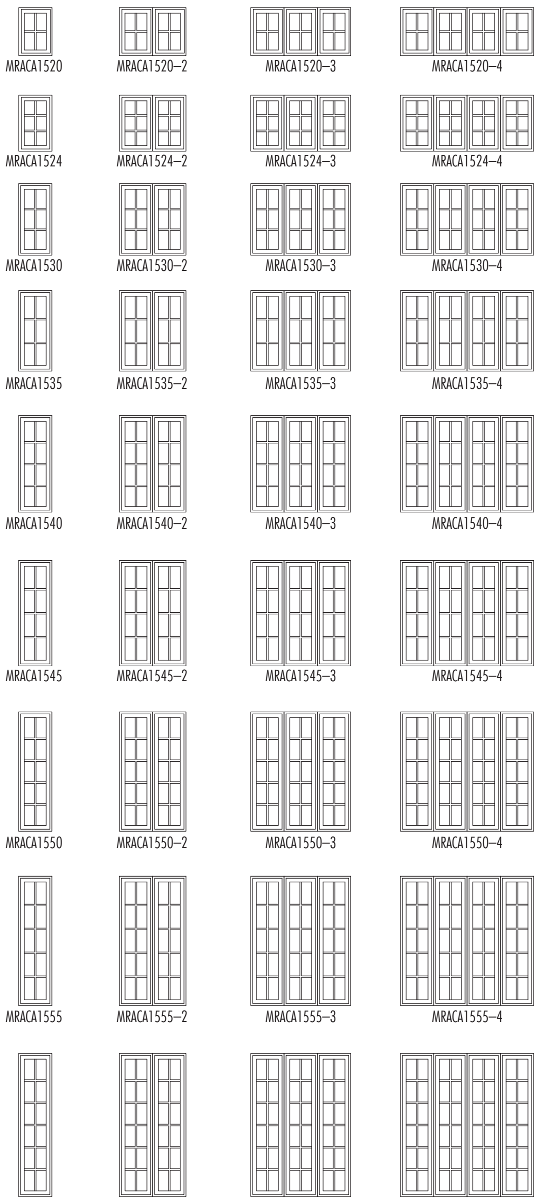


45° Angle Bay with 2-0 Flankers



WIDTHS					
Call Size	Max. Unit	Max. Ext. Rough Opening	Inside Rough Opening	Projection	Actual Angle
MRADH1830xx-45	77-3/4	75-7/8	69-7/8	23-5/16	45°
MRADH1834xx-45	81-3/4	79-7/8	73-7/8	23-5/16	45°
MRADH1838xx-45	85-3/4	83-7/8	77-7/8	23-5/16	45°
MRADH1840xx-45	89-3/4	87-7/8	81-7/8	23-5/16	45°
MRADH1850xx-45	101-3/4	99-7/8	93-7/8	23-5/16	45°
MRADH1860xx-45	113-3/4	111-7/8	105-7/8	23-5/16	45°
MRADH2030xx-45	83-3/8	81-1/2	75-1/2	26-1/8	45°
MRADH2034xx-45	87-3/8	85-1/2	79-1/2	26-1/8	45°
MRADH2038xx-45	91-3/8	89-1/2	83-1/2	26-1/8	45°
MRADH2040xx-45	95-3/8	93-1/2	87-1/2	26-1/8	45°
MRADH2050xx-45	107-3/8	105-1/2	99-1/2	26-1/8	45°
MRADH2060xx-45	119-3/8	117-1/2	111-1/2	26-1/8	45°

Casement – Operating Units

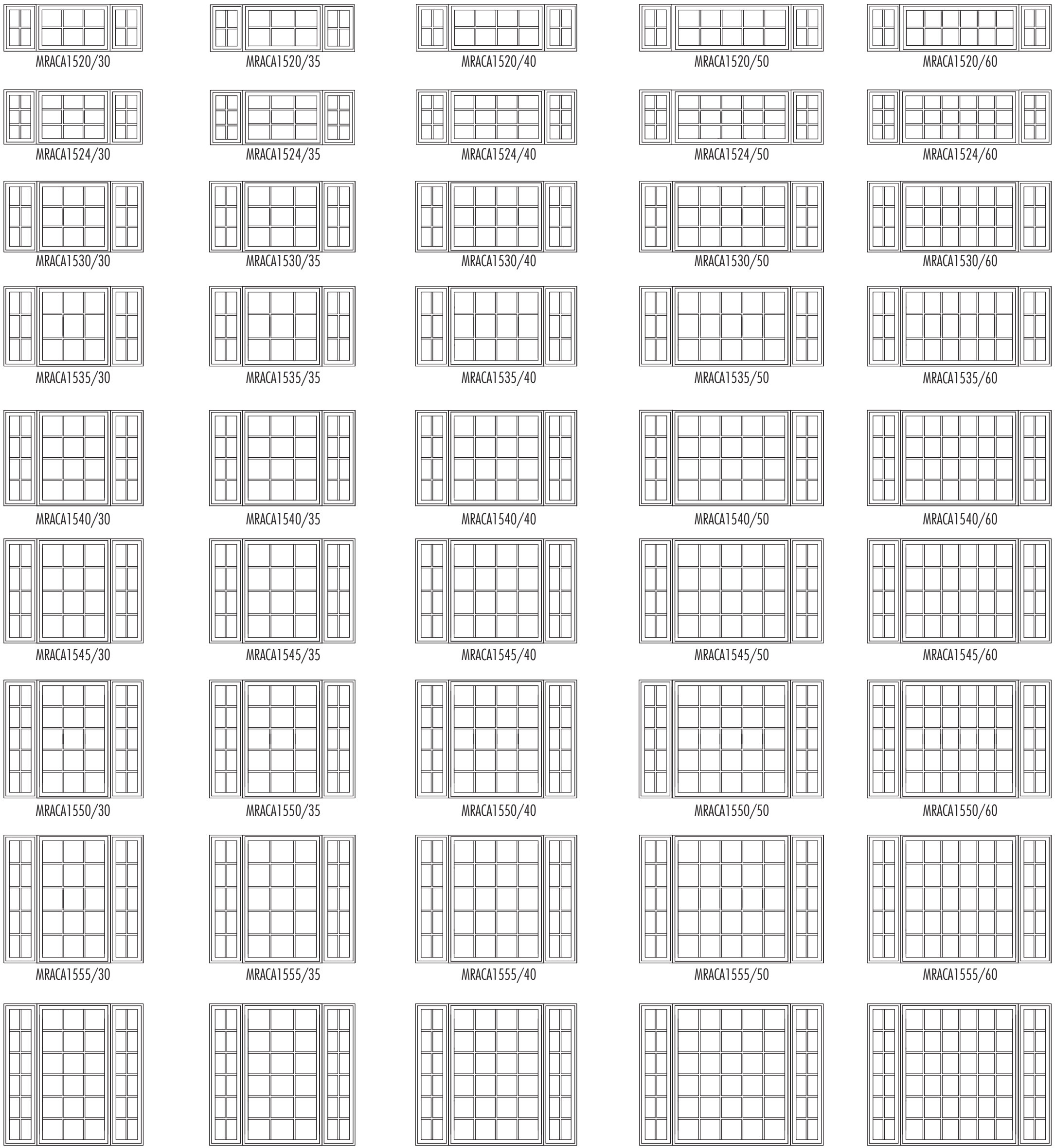


Widths / **Heights**

Unit Dimension	Rough Opening	Call Size	1' – 4 ¾" 1' – 5 ¾" 1–5	2' – 10 ½" 2' – 11 ½" 1–5 Twin	4' – 4 ¼" 4' – 5 ¼" 1–5 Triple	5' – 10" 5' – 11" 1–5 Quad
2' – 0 ¼"	2' – 0 ¾"	2–0	MRACA1520	MRACA1520–2	MRACA1520–3	MRACA1520–4
2' – 4 ¼"	2' – 4 ¾"	2–4	MRACA1524	MRACA1524–2	MRACA1524–3	MRACA1524–4
3' – 0"	3' – 0 ½"	3–0	MRACA1530	MRACA1530–2	MRACA1530–3	MRACA1530–4
3' – 5 ½"	3' – 6"	3–5	MRACA1535	MRACA1535–2	MRACA1535–3	MRACA1535–4
4' – 1 ½"	4' – 2"	4–0	MRACA1540	MRACA1540–2	MRACA1540–3	MRACA1540–4
4' – 5"	4' – 5 ½"	4–5	MRACA1545	MRACA1545–2	MRACA1545–3	MRACA1545–4
5' – 0"	5' – 0 ½"	5–0	MRACA1550	MRACA1550–2	MRACA1550–3	MRACA1550–4
5' – 5"	5' – 5 ½"	5–5	MRACA1555	MRACA1555–2	MRACA1555–3	MRACA1555–4
6' – 0"	6' – 0 ½"	6–0	MRACA1560	MRACA1560–2	MRACA1560–3	MRACA1560–4

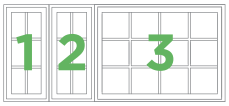
Widths

Heights



Unit Dimension	Rough Opening	Call Size	5' – 11 ½"	6' – 5"	7' – 1"	7' – 11 ½"	8' – 11 ½"
			6' – 0 ½"	6' – 6"	7' – 2"	8' – 0 ½"	9' – 0 ½"
			1–5 Flankers with 3–0 Center	1–5 Flankers with 3–5 Center	1–5 Flankers with 4–0 Center	1–5 Flankers with 5–0 Center	1–5 Flankers with 6–0 Center
2' – 0 ¼"	2' – 0 ¾"	2–0	MRACA1520/30	MRACA1520/35	MRACA1520/40	MRACA1520/50	MRACA1520/60
2' – 4 ¼"	2' – 4 ¾"	2–4	MRACA1524/30	MRACA1524/35	MRACA1524/40	MRACA1524/50	MRACA1524/60
3' – 0"	3' – 0 ½"	3–0	MRACA1530/30	MRACA1530/35	MRACA1530/40	MRACA1530/50	MRACA1530/60
3' – 5 ½"	3' – 6"	3–5	MRACA1535/30	MRACA1535/35	MRACA1535/40	MRACA1535/50	MRACA1535/60
4' – 1 ½"	4' – 2"	4–0	MRACA1540/30	MRACA1540/35	MRACA1540/40	MRACA1540/50	MRACA1540/60
4' – 5"	4' – 5 ½"	4–5	MRACA1545/30	MRACA1545/35	MRACA1545/40	MRACA1545/50	MRACA1545/60
5' – 0"	5' – 0 ½"	5–0	MRACA1550/30	MRACA1550/35	MRACA1550/40	MRACA1550/50	MRACA1550/60
5' – 5"	5' – 5 ½"	5–5	MRACA1555/30	MRACA1555/35	MRACA1555/40	MRACA1555/50	MRACA1555/60
6' – 0"	6' – 0 ½"	6–0	MRACA1560/30	MRACA1560/35	MRACA1560/40	MRACA1560/50	MRACA1560/60

STYLE 2VB
(Shown Above)



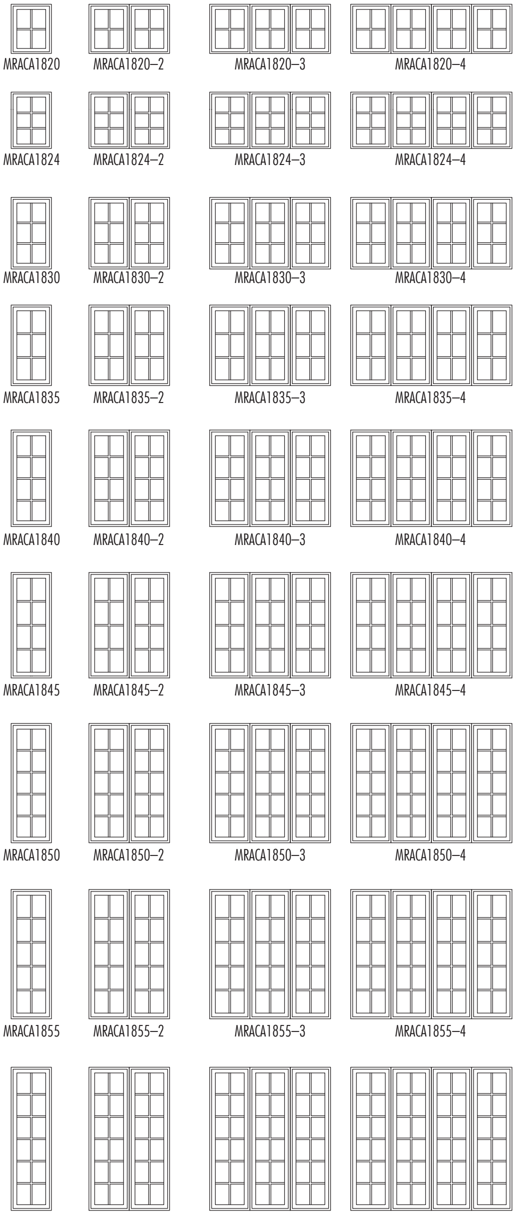
STYLE 2VL

STYLE 2VR

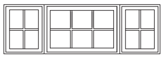
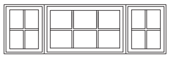
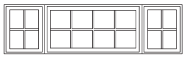
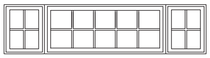
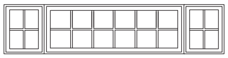
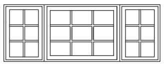
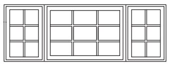
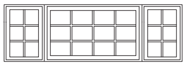
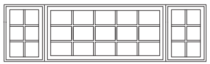
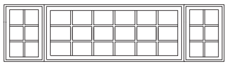
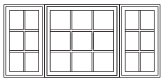
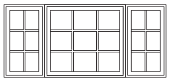
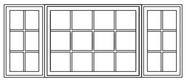
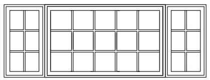
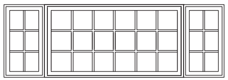
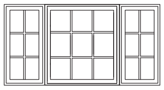
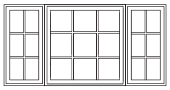
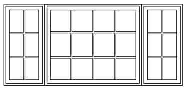
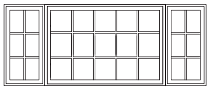
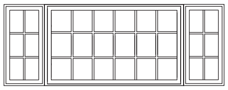
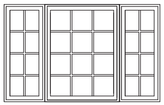
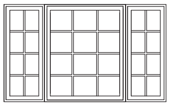
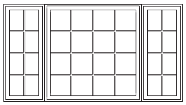
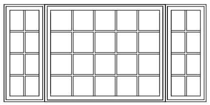
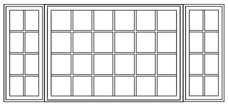
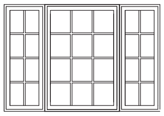
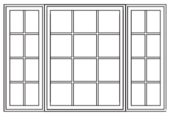
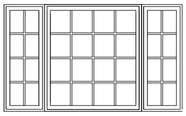
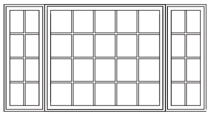
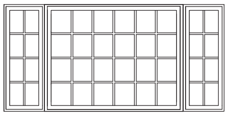
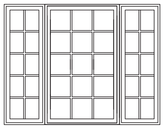
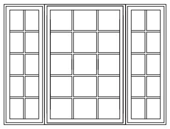
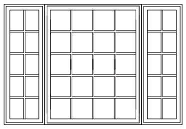
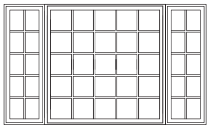
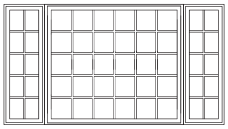
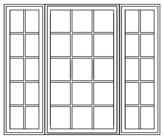
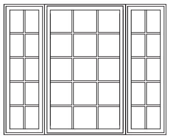
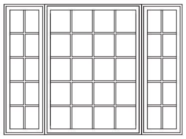
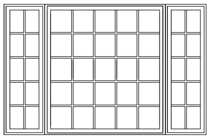
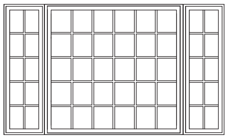
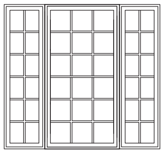
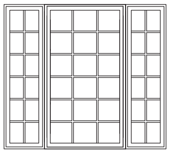
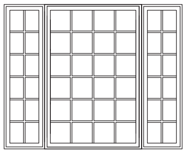
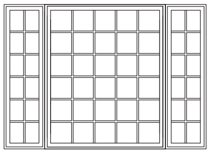
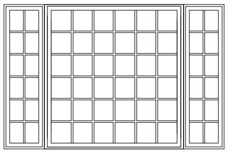
Note: Viewed from exterior, Windows 1 and 2 are operating. Window 3 is Fixed

Widths

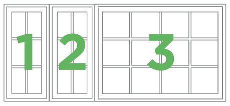
Heights



Unit Dimension	Rough Opening	Call Size	1' – 8 ¼"	3' – 5 ½"	5' –2 ¾"	7' – 0"
			1' – 9 ¼"	3' – 6 ½"	5' – 3 ¾"	7' – 1"
			1–8	1–8 Twin	1–8 Triple	1–8 Quad
2' – 0 ¼"	2' –0 ¾"	2–0	MRACA1820	MRACA1820–2	MRACA1820–3	MRACA1820–4
2' – 4 ¼"	2' – 4 ¾"	2–4	MRACA1824	MRACA1824–2	MRACA1824–3	MRACA1824–4
3' – 0"	3' –0 ½"	3–0	MRACA1830	MRACA1830–2	MRACA1830–3	MRACA1830–4
3' – 5 ½"	3' – 6"	3–5	MRACA1835	MRACA1835–2	MRACA1835–3	MRACA1835–4
4' – 1 ½"	4' – 2"	4–0	MRACA1840	MRACA1840–2	MRACA1840–3	MRACA1840–4
4' – 5"	4' – 5 ½"	4–5	MRACA1845	MRACA1845–2	MRACA1845–3	MRACA1845–4
5' – 0"	5' –0 ½"	5–0	MRACA1850	MRACA1850–2	MRACA1850–3	MRACA1850–4
5' – 5"	5' – 5 ½"	5–5	MRACA1855	MRACA1855–2	MRACA1855–3	MRACA1855–4
6' – 0"	6' – 0 ½"	6–0	MRACA1860	MRACA1860–2	MRACA1860–3	MRACA1860–4

Heights			Widths				
Unit Dimension			6' – 6 ½"	7' – 0"	7' – 8"	8' – 6 ½"	9' – 6 ½"
	Rough Opening		6' – 7 ½"	7' – 1"	7' – 9"	8' – 7 ½"	9' – 7 ½"
		Call Size	1–8 Flankers with 3–0 Center	1–8 Flankers with 3–5 Center	1–8 Flankers with 4–0 Center	1–8 Flankers with 5–0 Center	1–8 Flankers with 6–0 Center
2' – 0 ¼"	2' – 0 ¾"	2–0	 MRACA1820/30	 MRACA1820/35	 MRACA1820/40	 MRACA1820/50	 MRACA1820/60
2' – 4 ¼"	2' – 4 ¾"	2–4	 MRACA1824/30	 MRACA1824/35	 MRACA1824/40	 MRACA1824/50	 MRACA1824/60
3' – 0"	3' – 0 ½"	3–0	 MRACA1830/30	 MRACA1830/35	 MRACA1830/40	 MRACA1830/50	 MRACA1830/60
3' – 5 ½"	3' – 6"	3–5	 MRACA1835/30	 MRACA1835/35	 MRACA1835/40	 MRACA1835/50	 MRACA1835/60
4' – 1 ½"	4' – 2"	4–0	 MRACA1840/30	 MRACA1840/35	 MRACA1840/40	 MRACA1840/50	 MRACA1840/60
4' – 5"	4' – 5 ½"	4–5	 MRACA1845/30	 MRACA1845/35	 MRACA1845/40	 MRACA1845/50	 MRACA1845/60
5' – 0"	5' – 0 ½"	5–0	 MRACA1850/30	 MRACA1850/35	 MRACA1850/40	 MRACA1850/50	 MRACA1850/60
5' – 5"	5' – 5 ½"	5–5	 MRACA1855/30	 MRACA1855/35	 MRACA1855/40	 MRACA1855/50	 MRACA1855/60
6' – 0"	6' – 0 ½"	6–0	 MRACA1860/30	 MRACA1860/35	 MRACA1860/40	 MRACA1860/50	 MRACA1860/60

STYLE 2VB
(Shown Above)



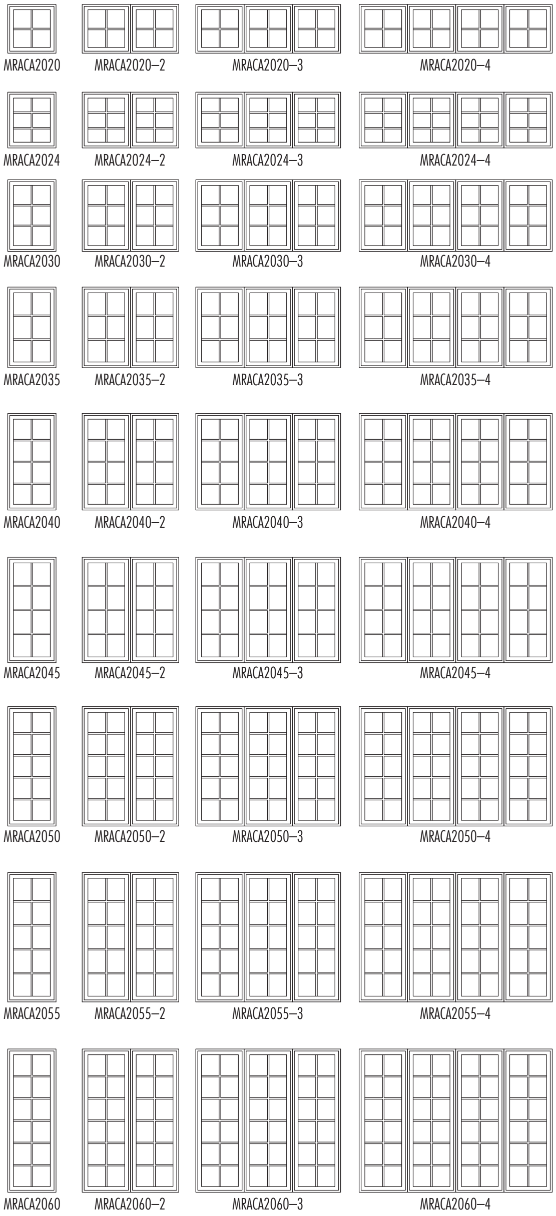
STYLE 2VL

STYLE 2VR

Note: Viewed from exterior, Windows 1 and 2 are operating. Window 3 is Fixed

Widths

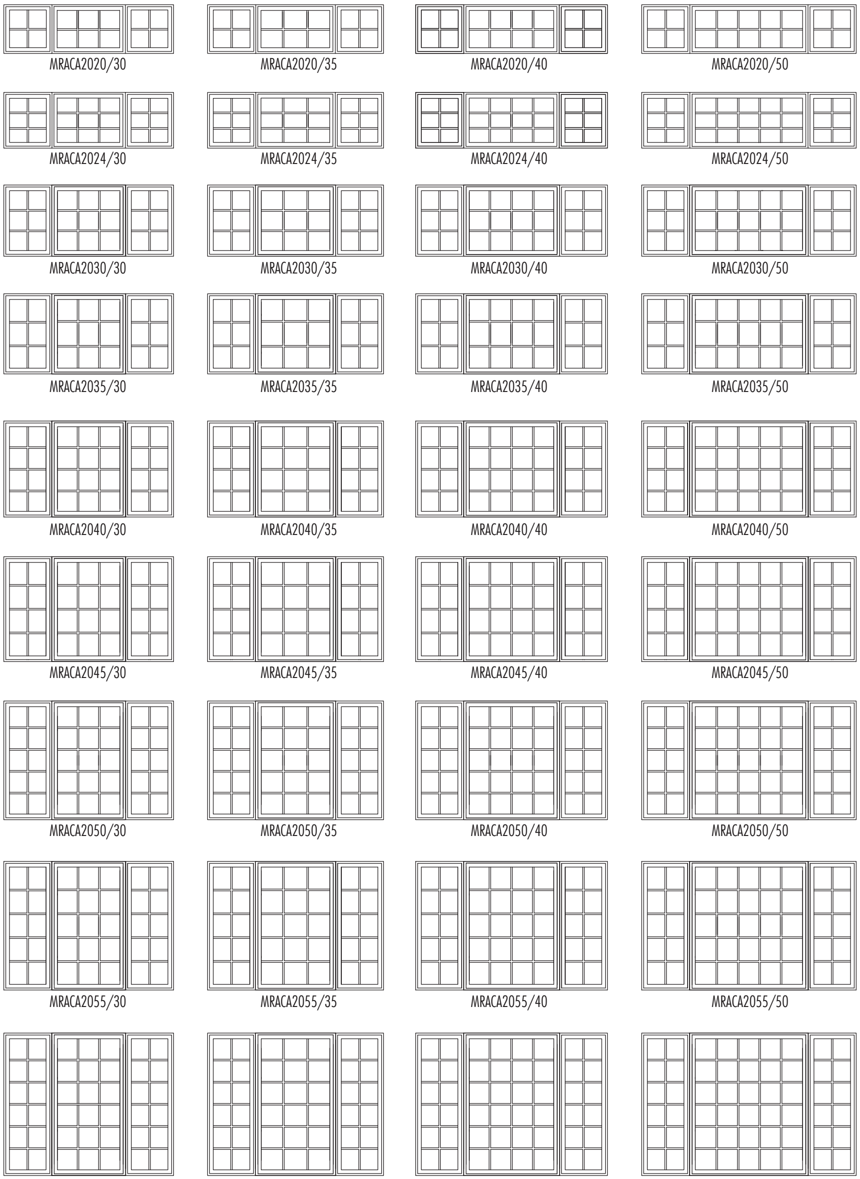
Heights



		Unit Dimension	2' –0 1/4"	4' –1 1/2"	6' –2 3/4"	8' – 4"
		Rough Opening	2' – 1 1/4"	4' – 2 1/2"	6' – 3 3/4"	8' – 5"
Unit Dimension	Rough Opening	Call Size	2–0	2–0 Twin	2–0 Triple	2–0 Quad
2' – 0 1/4"	2' –0 3/4"	2–0	MRACA2020	MRACA2020–2	MRACA2020–3	MRACA2020–4
2' – 4 1/4"	2' – 4 3/4"	2–4	MRACA2024	MRACA2024–2	MRACA2024–3	MRACA2024–4
3' – 0"	3' –0 1/2"	3–0	MRACA2030	MRACA2030–2	MRACA2030–3	MRACA2030–4
3' – 5 1/2"	3' – 6"	3–5	MRACA2035	MRACA2035–2	MRACA2035–3	MRACA2035–4
4' – 1 1/2"	4' –2"	4–0	MRACA2040	MRACA2040–2	MRACA2040–3	MRACA2040–4
4' – 5"	4' – 5 1/2"	4–5	MRACA2045	MRACA2045–2	MRACA2045–3	MRACA2045–4
5' – 0"	5' –0 1/2"	5–0	MRACA2050	MRACA2050–2	MRACA2050–3	MRACA2050–4
5' – 5"	5' – 5 1/2"	5–5	MRACA2055	MRACA2055–2	MRACA2055–3	MRACA2055–4
6' – 0"	6' – 0 1/2"	6–0	MRACA2060	MRACA2060–2	MRACA2060–3	MRACA2060–4

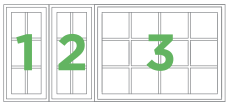
Widths

Heights



Unit Dimension	Rough Opening	Call Size	7' – 2 1/2"	7' – 8"	8' – 4"	9' – 2 1/2"
			7' – 3 1/2"	7' – 9"	8' – 5"	9' – 3 1/2"
			2–0 Flankers with 3–0 Center	2–0 Flankers with 3–5 Center	2–0 Flankers with 4–0 Center	2–0 Flankers with 5–0 Center
2' – 0 1/4"	2' – 0 3/4"	2–0	MRACA2020/30	MRACA2020/35	MRACA2020/40	MRACA2020/50
2' – 4 1/4"	2' – 4 3/4"	2–4	MRACA2024/30	MRACA2024/35	MRACA2024/40	MRACA2024/50
3' – 0"	3' – 0 1/2"	3–0	MRACA2030/30	MRACA2030/35	MRACA2030/40	MRACA2030/50
3' – 5 1/2"	3' – 6"	3–5	MRACA2035/30	MRACA2035/35	MRACA2035/40	MRACA2035/50
4' – 1 1/2"	4' – 2"	4–0	MRACA2040/30	MRACA2040/35	MRACA2040/40	MRACA2040/50
4' – 5"	4' – 5 1/2"	4–5	MRACA2045/30	MRACA2045/35	MRACA2045/40	MRACA2045/50
5' – 0"	5' – 0 1/2"	5–0	MRACA2050/30	MRACA2050/35	MRACA2050/40	MRACA2050/50
5' – 5"	5' – 5 1/2"	5–5	MRACA2055/30	MRACA2055/35	MRACA2055/40	MRACA2055/50
6' – 0"	6' – 0 1/2"	6–0	MRACA2060/30	MRACA2060/35	MRACA2060/40	MRACA2060/50

STYLE 2VB
(Shown Above)

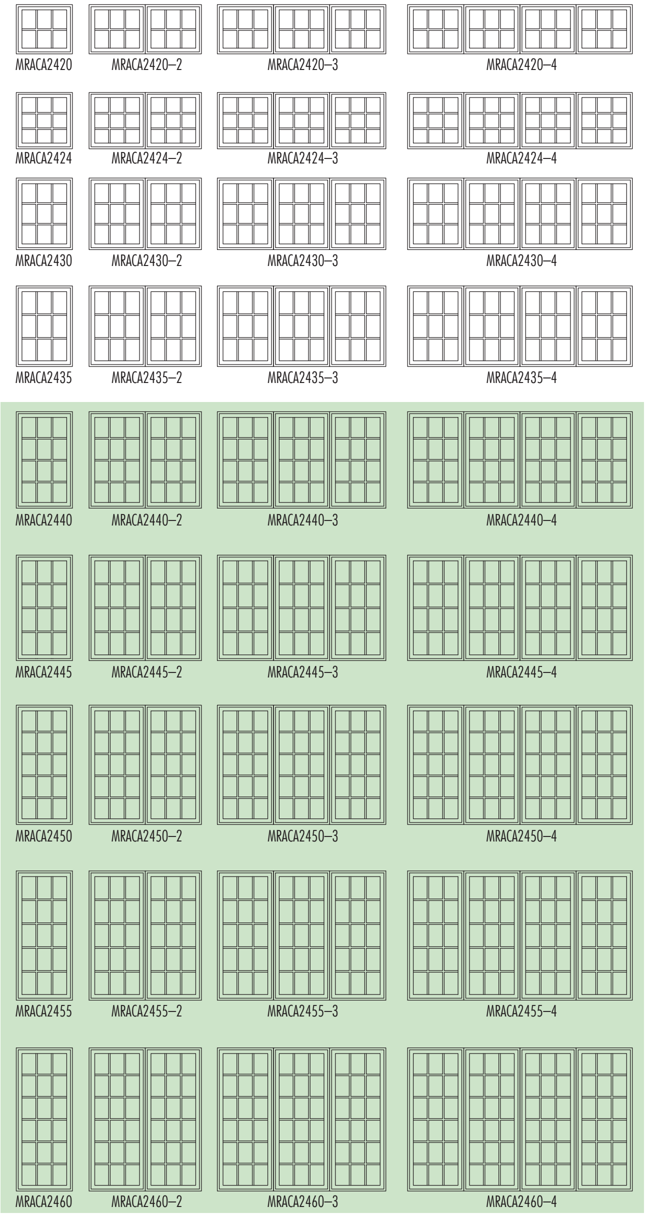


STYLE 2VL

STYLE 2VR

Note: Viewed from exterior, Windows 1 and 2 are operating. Window 3 is Fixed

Widths

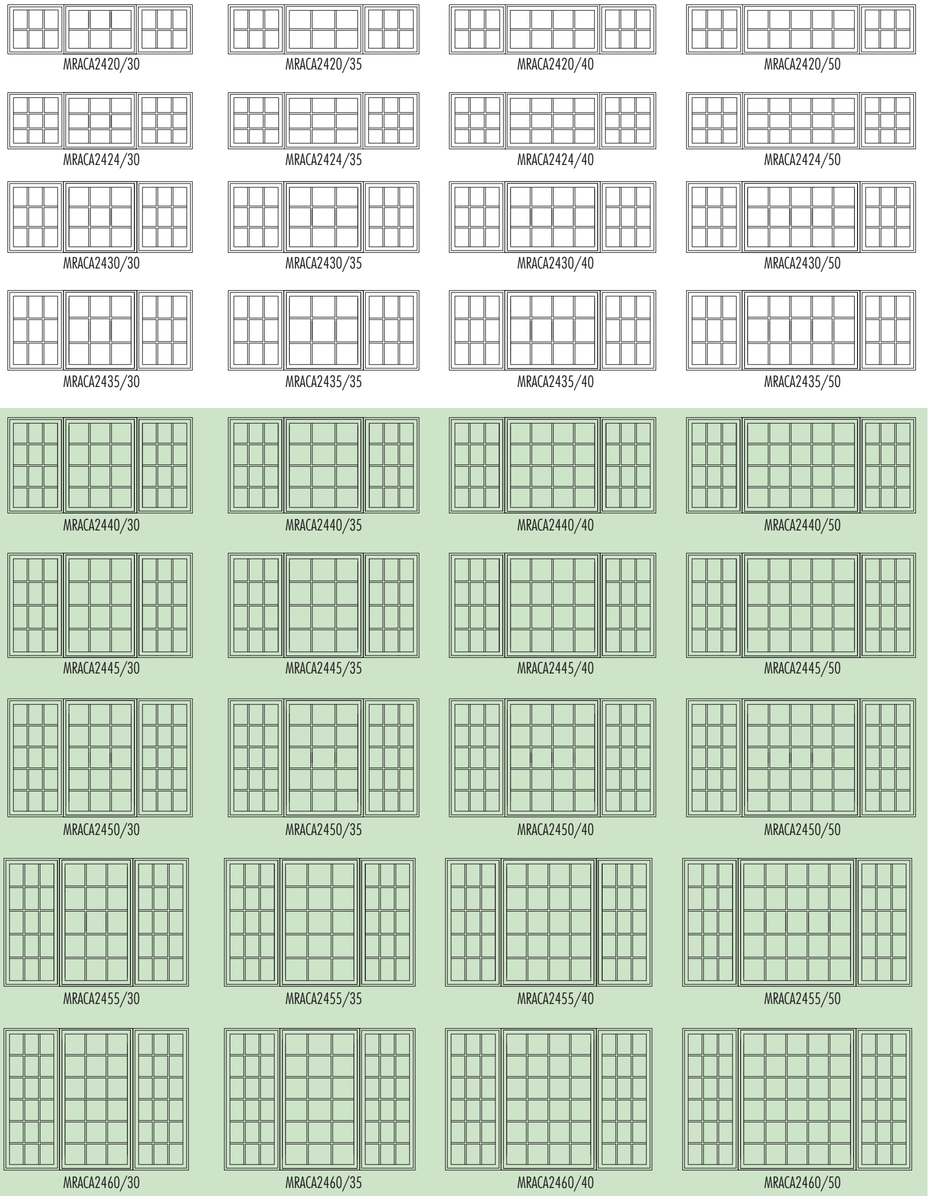


Heights			Widths			
		Unit Dimension	2' – 4 1/4"	4' – 9 1/2"	7' – 2 3/4"	9' – 8"
		Rough Opening	2' – 5 1/4"	4' – 10 1/2"	7' – 3 3/4"	9' – 9"
Unit Dimension	Rough Opening	Call Size	2–4	2–4 Twin	2–4 Triple	2–4 Quad
2' – 0 1/4"	2' – 0 3/4"	2–0	MRACA2420	MRACA2420–2	MRACA2420–3	MRACA2420–4
2' – 4 1/4"	2' – 4 3/4"	2–4	MRACA2424	MRACA2424–2	MRACA2424–3	MRACA2424–4
3' – 0"	3' – 0 1/2"	3–0	MRACA2430	MRACA2430–2	MRACA2430–3	MRACA2430–4
3' – 4 1/2"	3' – 5"	3–5	MRACA2435	MRACA2435–2	MRACA2435–3	MRACA2435–4
4' – 1 1/2"	4' – 2"	4–0	🟩 MRACA2440	🟩 MRACA2440–2	🟩 MRACA2440–3	🟩 MRACA2440–4
4' – 5"	4' – 5 1/2"	4–5	🟩 MRACA2445	🟩 MRACA2445–2	🟩 MRACA2445–3	🟩 MRACA2445–4
5' – 0"	5' – 0 1/2"	5–0	🟩 MRACA2450	🟩 MRACA2450–2	🟩 MRACA2450–3	🟩 MRACA2450–4
5' – 5"	5' – 5 1/2"	5–5	🟩 MRACA2455	🟩 MRACA2455–2	🟩 MRACA2455–3	🟩 MRACA2455–4
6' – 0"	6' – 0 1/2"	6–0	🟩 MRACA2460	🟩 MRACA2460–2	🟩 MRACA2460–3	🟩 MRACA2460–4

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Widths

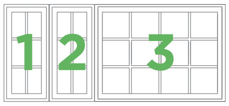
Heights



Unit Dimension	Rough Opening	Call Size	7'–10 ½"	8'–4"	9'–0"	9'–10 ½"
			7'–11 ½"	8'–5"	9'–1"	9'–11 ½"
			2–4 Flankers with 3–0 Center	2–4 Flankers with 3–5 Center	2–4 Flankers with 4–0 Center	2–4 Flankers with 5–0 Center
2' – 0 ¼"	2' – 0 ¾"	2–0	MRACA2420/30	MRACA2420/35	MRACA2420/40	MRACA2420/50
2' – 4 ¼"	2' – 4 ¾"	2–4	MRACA2424/30	MRACA2424/35	MRACA2424/40	MRACA2424/50
3' – 0"	3' –0 ½"	3–0	MRACA2430/30	MRACA2430/35	MRACA2430/40	MRACA2430/50
3' – 5 ½"	3' – 6"	3–5	MRACA2435/30	MRACA2435/35	MRACA2435/40	MRACA2435/50
4' – 1 ½"	4' – 2"	4–0	🟩 MRACA2440/30	🟩 MRACA2440/35	🟩 MRACA2440/40	🟩 MRACA2440/50
4' – 5"	4' – 5 ½"	4–5	🟩 MRACA2445/30	🟩 MRACA2445/35	🟩 MRACA2445/40	🟩 MRACA2445/50
5' – 0"	5' –0 ½"	5–0	🟩 MRACA2450/30	🟩 MRACA2450/35	🟩 MRACA2450/40	🟩 MRACA2450/50
5' – 5"	5' – 5 ½"	5–5	🟩 MRACA2455/30	🟩 MRACA2455/35	🟩 MRACA2455/40	🟩 MRACA2455/50
6' – 0"	6' –0 ½"	6–0	🟩 MRACA2460/30	🟩 MRACA2460/35	🟩 MRACA2460/40	🟩 MRACA2460/50

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

STYLE 2VB
(Shown Above)



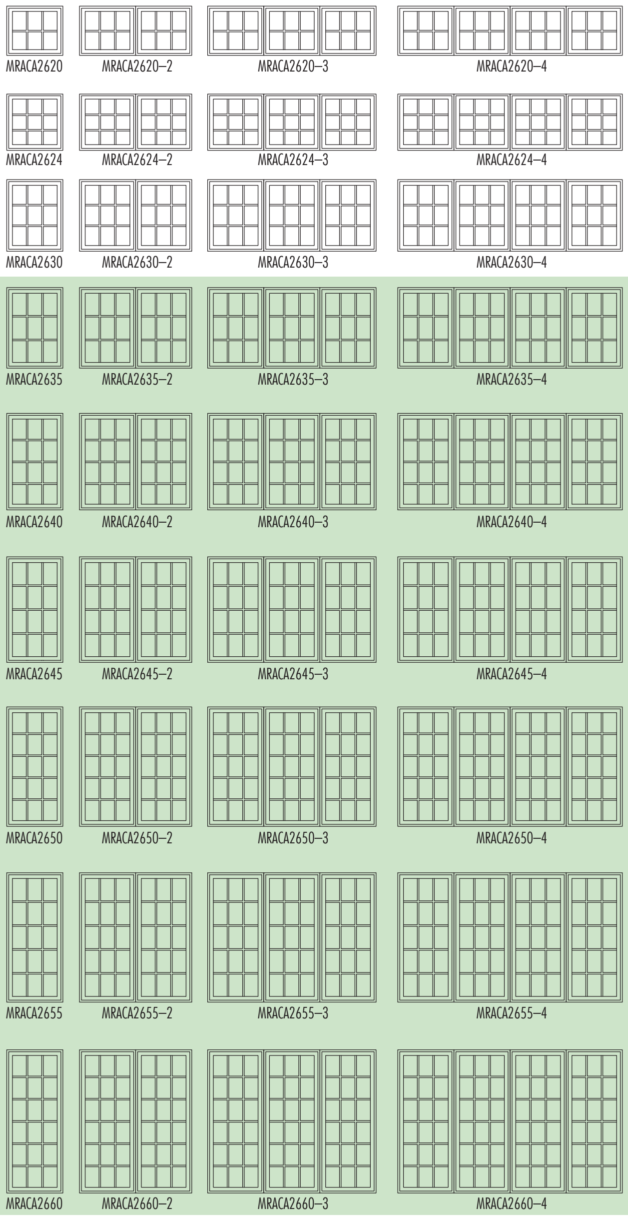
STYLE 2VL

STYLE 2VR

Note: Viewed from exterior, Windows 1 and 2 are operating. Window 3 is Fixed

Widths

Heights



		Unit Dimension	2' – 6 1/4"	5' – 1 1/2"	7' – 8 3/4"	10' – 4"
		Rough Opening	2' – 7 1/4"	5' – 2 1/2"	7' – 9 3/4"	10' – 5"
Unit Dimension	Rough Opening	Call Size	2–6	2–6 Twin	2–6 Triple	2–6 Quad
2' – 0 1/4"	2' –0 3/4"	2–0	MRACA2620	MRACA2620–2	MRACA2620–3	MRACA2620–4
2' – 4 1/4"	2' – 4 3/4"	2–4	MRACA2624	MRACA2624–2	MRACA2624–3	MRACA2624–4
3' – 0"	3' –0 1/2"	3–0	MRACA2630	MRACA2630–2	MRACA2630–3	MRACA2630–4
3' – 4 1/2"	3' – 5"	3–5	MRACA2635	MRACA2635–2	MRACA2635–3	MRACA2635–4
4' – 1 1/2"	4' – 2"	4–0	MRACA2640	MRACA2640–2	MRACA2640–3	MRACA2640–4
4' – 5"	4' – 5 1/2"	4–5	MRACA2645	MRACA2645–2	MRACA2645–3	MRACA2645–4
5' – 0"	5' –0 1/2"	5–0	MRACA2650	MRACA2650–2	MRACA2650–3	MRACA2650–4
5' – 5"	5' – 5 1/2"	5–5	MRACA2655	MRACA2655–2	MRACA2655–3	MRACA2655–4
6' – 0"	6' – 0 1/2"	6–0	MRACA2660	MRACA2660–2	MRACA2660–3	MRACA2660–4

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

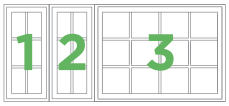
Widths

Heights

Unit Dimension	Rough Opening	Call Size				
			8'–2 ½"	8'–8"	9'–4"	10'–2 ½"
			8'–3 ½"	8'–9"	9'–5"	10'–3 ½"
			2–6 Flankers with 3–0 Center	2–6 Flankers with 3–5 Center	2–6 Flankers with 4–0 Center	2–6 Flankers with 5–0 Center
2' – 0 ¼"	2' – 0 ¾"	2–0	MRACA2620/30	MRACA2620/35	MRACA2620/40	MRACA2620/50
2' – 4 ¼"	2' – 4 ¾"	2–4	MRACA2624/30	MRACA2624/35	MRACA2624/40	MRACA2624/50
3' – 0"	3' –0 ½"	3–0	MRACA2630/30	MRACA2630/35	MRACA2630/40	MRACA2630/50
3' – 5 ½"	3' – 6"	3–5	🟩 MRACA2635/30	🟩 MRACA2635/35	🟩 MRACA2635/40	🟩 MRACA2635/50
4' – 1 ½"	4' – 2"	4–0	🟩 MRACA2640/30	🟩 MRACA2640/35	🟩 MRACA2640/40	🟩 MRACA2640/50
4' – 5"	4' – 5 ½"	4–5	🟩 MRACA2645/30	🟩 MRACA2645/35	🟩 MRACA2645/40	🟩 MRACA2645/50
5' – 0"	5' –0 ½"	5–0	🟩 MRACA2650/30	🟩 MRACA2650/35	🟩 MRACA2650/40	🟩 MRACA2650/50
5' – 5"	5' – 5 ½"	5–5	🟩 MRACA2655/30	🟩 MRACA2655/35	🟩 MRACA2655/40	🟩 MRACA2655/50
6' – 0"	6' – 0 ½"	6–0	🟩 MRACA2660/30	🟩 MRACA2660/35	🟩 MRACA2660/40	🟩 MRACA2660/50

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

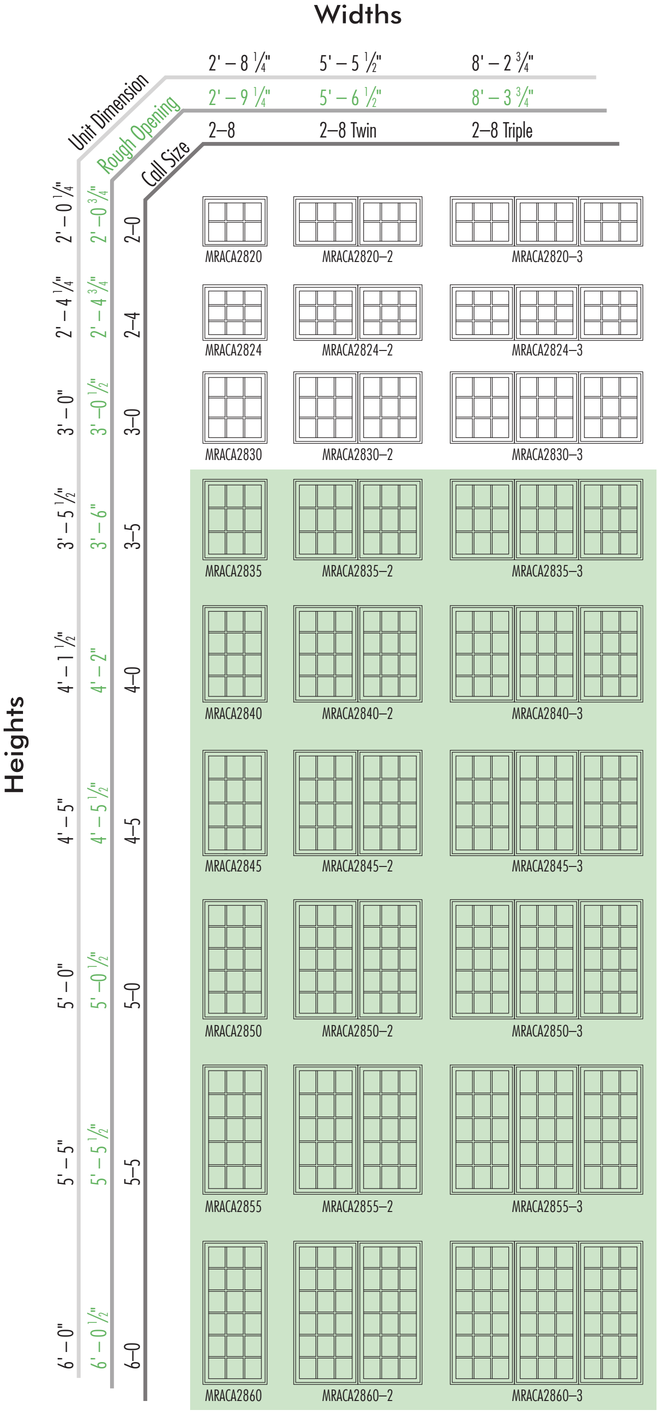
STYLE 2VB
(Shown Above)



STYLE 2VL

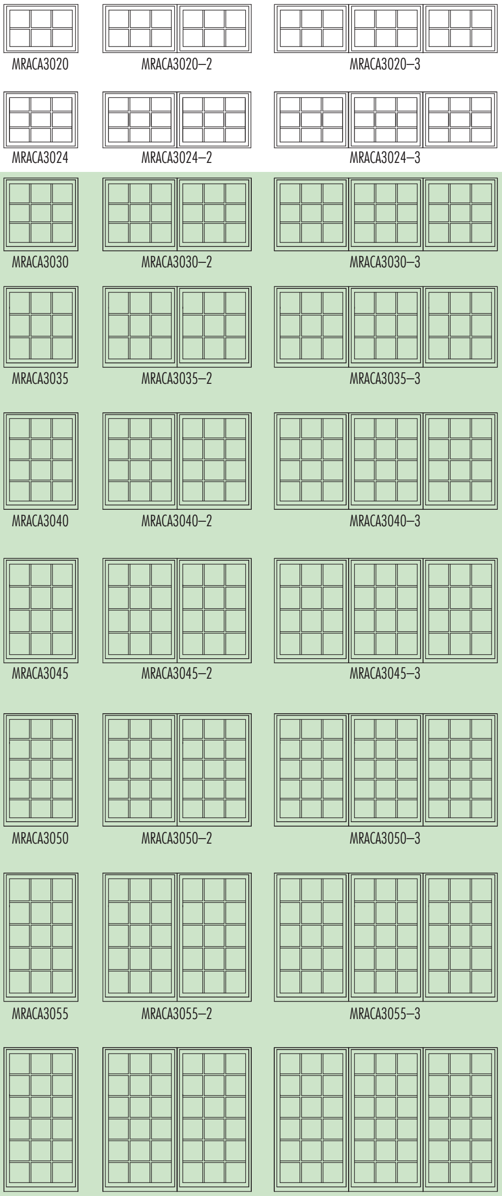
STYLE 2VR

Note: Viewed from exterior, Windows 1 and 2 are operating. Window 3 is Fixed



		Widths			
	Unit Dimension		2' – 8 1/4"	5' – 5 1/2"	8' – 2 3/4"
	Rough Opening		2' – 9 1/4"	5' – 6 1/2"	8' – 3 3/4"
	Call Size		2–8	2–8 Twin	2–8 Triple
Heights Unit Dimension	Rough Opening	Call Size			
2' – 0 1/4"	2' –0 3/4"	2–0	MRACA2820	MRACA2820–2	MRACA2820–3
2' – 4 1/4"	2' – 4 3/4"	2–4	MRACA2824	MRACA2824–2	MRACA2824–3
3' – 0"	3' –0 1/2"	3–0	MRACA2830	MRACA2830–2	MRACA2830–3
3' – 5 1/2"	3' – 6"	3–5	MRACA2835	MRACA2835–2	MRACA2835–3
4' – 1 1/2"	4' – 2"	4–0	MRACA2840	MRACA2840–2	MRACA2840–3
4' – 5"	4' – 5 1/2"	4–5	MRACA2845	MRACA2845–2	MRACA2845–3
5' – 0"	5' –0 1/2"	5–0	MRACA2850	MRACA2850–2	MRACA2850–3
5' – 5"	5' – 5 1/2"	5–5	MRACA2855	MRACA2855–2	MRACA2855–3
6' – 0"	6' – 0 1/2"	6–0	MRACA2860	MRACA2860–2	MRACA2860–3

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

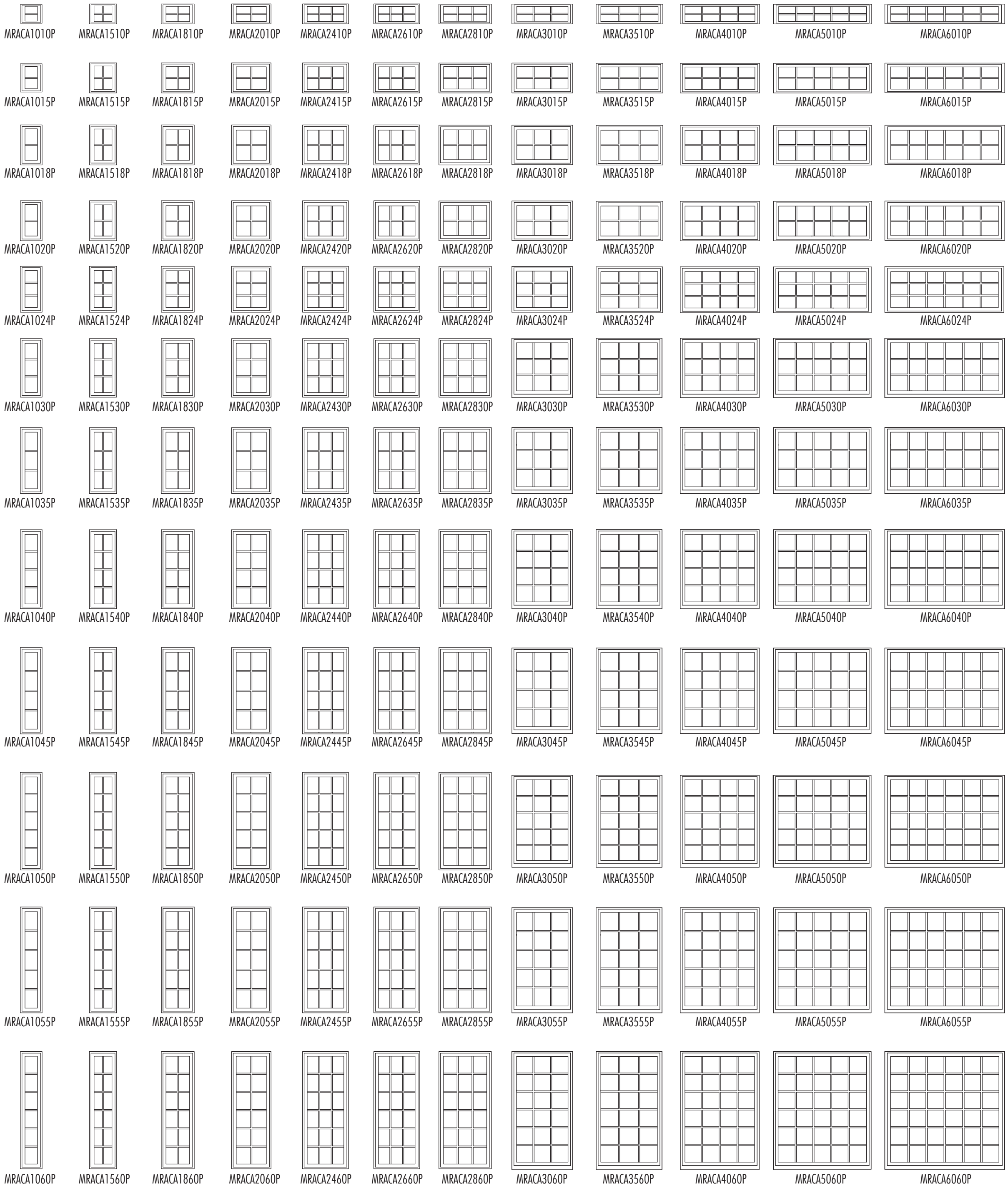


Widths

Heights

Unit Dimension			3' – 0"	6' – 1"	9' – 2"
	Rough Opening		3' – 1"	6' – 2"	9' – 3"
		Call Size	3–0	3–0 Twin	3–0 Triple
2' – 0 1/4"	2' –0 3/4"	2–0	MRACA3020	MRACA3020–2	MRACA3020–3
2' – 4 1/4"	2' – 4 3/4"	2–4	MRACA3024	MRACA3024–2	MRACA3024–3
3' – 0"	3' –0 1/2"	3–0	🟩 MRACA3030	🟩 MRACA3030–2	🟩 MRACA3030–3
3' – 5 1/2"	3' – 6"	3–5	🟩 MRACA3035	🟩 MRACA3035–2	🟩 MRACA3035–3
4' – 1 1/2"	4' – 2"	4–0	🟩 MRACA3040	🟩 MRACA3040–2	🟩 MRACA3040–3
4' – 5"	4' – 5 1/2"	4–5	🟩 MRACA3045	🟩 MRACA3045–2	🟩 MRACA3045–3
5' – 0"	5' –0 1/2"	5–0	🟩 MRACA3050	🟩 MRACA3050–2	🟩 MRACA3050–3
5' – 5"	5' – 5 1/2"	5–5	🟩 MRACA3055	🟩 MRACA3055–2	🟩 MRACA3055–3
6' – 0"	6' – 0 1/2"	6–0	🟩 MRACA3060	🟩 MRACA3060–2	🟩 MRACA3060–3

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.



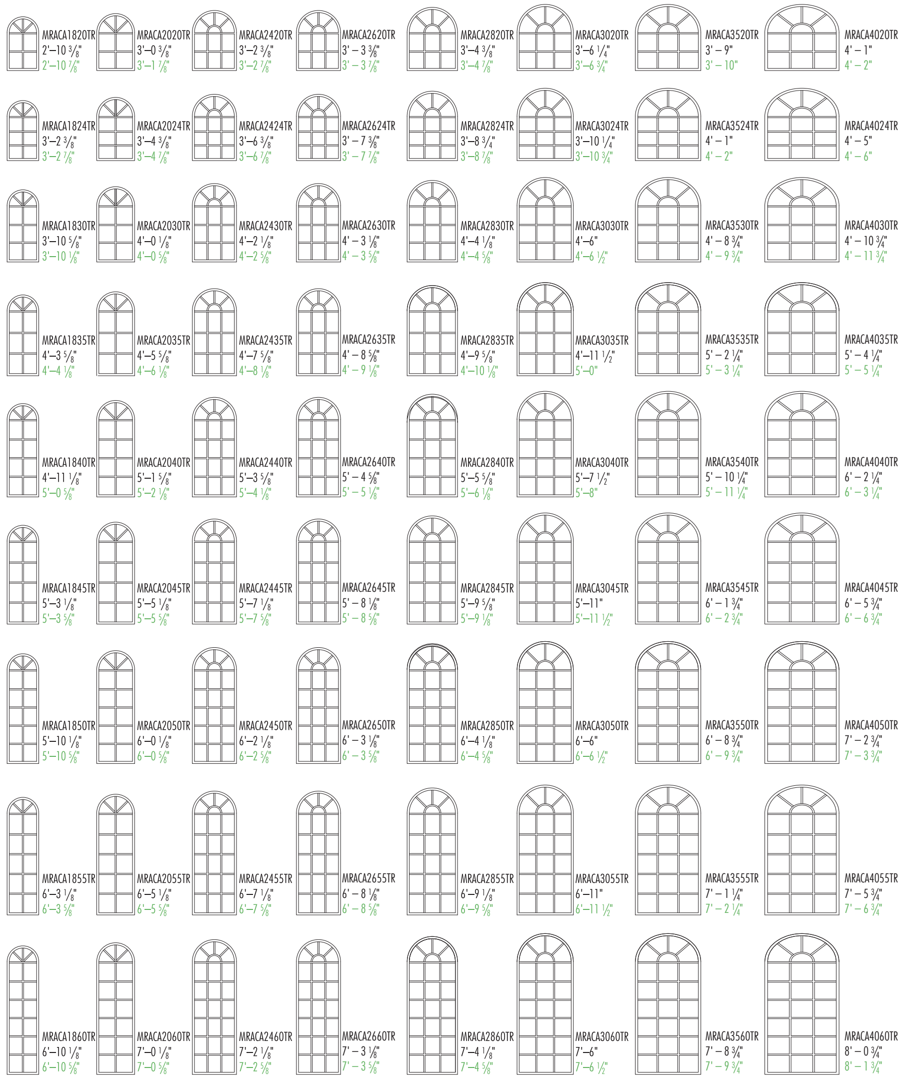
Widths

Heights

Heights: Unit Dimension	Heights: Rough Opening	Heights: Call Size	1' - 1 3/8"	1' - 4 3/4"	1' - 8 1/4"	2' - 0 1/4"	2' - 4 1/4"	2' - 6 1/4"	2' - 8 1/4"	3' – 0"	3' – 5 1/2"	4' – 1 1/2"	5' – 0"	6' – 0"
Unit Dimension	Rough Opening		1' - 2 3/8"	1' - 5 3/4"	1' - 9 1/4"	2' - 1 1/4"	2' - 5 1/4"	2' - 7 1/4"	2' - 9 1/4"	3' – 1"	3' – 6 1/2"	4' – 2 1/2"	5' – 1"	6' – 1"
		Call Size	1–0	1–5	1–8	2–0	2–4	2–6	2–8	3–0	3–5	4–0	5–0	6–0
1' – 1 3/4"	1' – 2 1/4"	1–0	MRACA1010P	MRACA1510P	MRACA1810P	MRACA2010P	MRACA2410P	MRACA2610P	MRACA2810P	MRACA3010P	MRACA3510P	MRACA4010P	MRACA5010P	MRACA6010P
1' – 4 3/4"	1' – 5 1/4"	1–5	MRACA1015P	MRACA1515P	MRACA1815P	MRACA2015P	MRACA2415P	MRACA2615P	MRACA2815P	MRACA3015P	MRACA3515P	MRACA4015P	MRACA5015P	MRACA6015P
1' – 8 1/4"	1' – 9 3/4"	1–8	MRACA1018P	MRACA1518P	MRACA1818P	MRACA2018P	MRACA2418P	MRACA2618P	MRACA2818P	MRACA3018P	MRACA3518P	MRACA4018P	MRACA5018P	MRACA6018P
2' – 0 1/4"	2' – 0 3/4"	2–0	MRACA1020P	MRACA1520P	MRACA1820P	MRACA2020P	MRACA2420P	MRACA2620P	MRACA2820P	MRACA3020P	MRACA3520P	MRACA4020P	MRACA5020P	MRACA6020P
2' – 4 1/4"	2' – 4 3/4"	2–4	MRACA1024P	MRACA1524P	MRACA1824P	MRACA2024P	MRACA2424P	MRACA2624P	MRACA2824P	MRACA3024P	MRACA3524P	MRACA4024P	MRACA5024P	MRACA6024P
3' – 0"	3' – 0 1/2"	3–0	MRACA1030P	MRACA1530P	MRACA1830P	MRACA2030P	MRACA2430P	MRACA2630P	MRACA2830P	MRACA3030P	MRACA3530P	MRACA4030P	MRACA5030P	MRACA6030P
3' – 5 1/2"	3' – 6"	3–5	MRACA1035P	MRACA1535P	MRACA1835P	MRACA2035P	MRACA2435P	MRACA2635P	MRACA2835P	MRACA3035P	MRACA3535P	MRACA4035P	MRACA5035P	MRACA6035P
4' – 1 1/2"	4' – 2"	4–0	MRACA1040P	MRACA1540P	MRACA1840P	MRACA2040P	MRACA2440P	MRACA2640P	MRACA2840P	MRACA3040P	MRACA3540P	MRACA4040P	MRACA5040P	MRACA6040P
4' – 5"	4' – 5 1/2"	4–5	MRACA1045P	MRACA1545P	MRACA1845P	MRACA2045P	MRACA2445P	MRACA2645P	MRACA2845P	MRACA3045P	MRACA3545P	MRACA4045P	MRACA5045P	MRACA6045P
5' – 0"	5' – 0 1/2"	5–0	MRACA1050P	MRACA1550P	MRACA1850P	MRACA2050P	MRACA2450P	MRACA2650P	MRACA2850P	MRACA3050P	MRACA3550P	MRACA4050P	MRACA5050P	MRACA6050P
5' – 5"	5' – 5 1/2"	5–5	MRACA1055P	MRACA1555P	MRACA1855P	MRACA2055P	MRACA2455P	MRACA2655P	MRACA2855P	MRACA3055P	MRACA3555P	MRACA4055P	MRACA5055P	MRACA6055P
6' – 0"	6' – 0 1/2"	6–0	MRACA1060P	MRACA1560P	MRACA1860P	MRACA2060P	MRACA2460P	MRACA2660P	MRACA2860P	MRACA3060P	MRACA3560P	MRACA4060P	MRACA5060P	MRACA6060P

Casement –True Radius Units & Matching Side Lights

Standard Colonial Grille Pattern



Widths

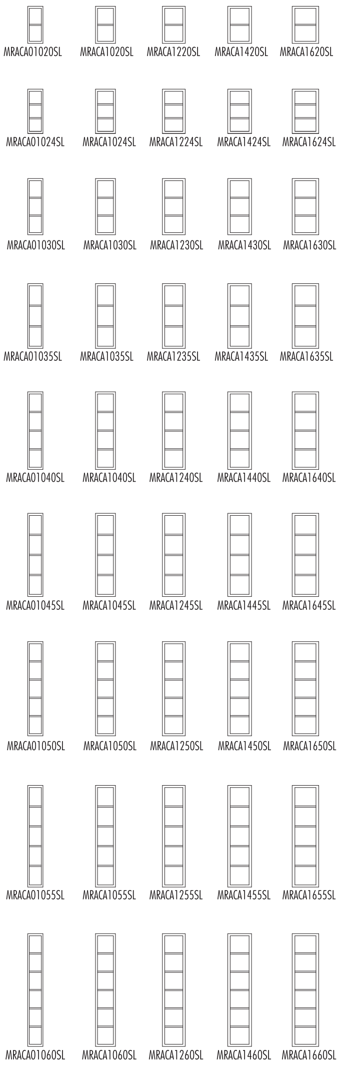
Heights

Unit height dimension is listed first under individual windows

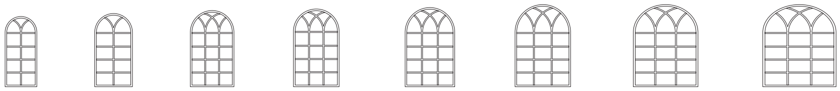
Rough Opening height dimension is listed second under individual windows

Unit Dimension	1'–8 1/4"	2'–0 1/4"	2'–4 1/4"	2'–6 1/4"	2'–8 1/4"	3'–0"	3'–5 1/2"	4'–1 1/2"
Rough Opening	1'–9 1/4"	2'–1 1/4"	2'–5 1/4"	2'–7 1/4"	2'–9 1/4"	3'–1"	3'–6 1/2"	4'–2 1/2"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–5	4–0
2–0	MRACA1820TR 2'–10 3/8" 2'–10 7/8"	MRACA2020TR 3'–0 3/8" 3'–1 7/8"	MRACA2420TR 3'–2 3/8" 3'–2 7/8"	MRACA2620TR 3' – 3 3/8" 3' – 3 7/8"	MRACA2820TR 3'–4 3/8" 3'–4 7/8"	MRACA3020TR 3'–6 1/4" 3'–6 3/4"	MRACA3520TR 3' – 9" 3' – 10"	MRACA4020TR 4' – 1" 4' – 2"
2–4	MRACA1824TR 3'–2 3/8" 3'–2 7/8"	MRACA2024TR 3'–4 3/8" 3'–4 7/8"	MRACA2424TR 3'–6 3/8" 3'–6 7/8"	MRACA2624TR 3' – 7 3/8" 3' – 7 7/8"	MRACA2824TR 3'–8 3/4" 3'–8 7/8"	MRACA3024TR 3'–10 1/4" 3'–10 3/4"	MRACA3524TR 4' – 1" 4' – 2"	MRACA4024TR 4' – 5" 4' – 6"
3–0	MRACA1830TR 3'–10 5/8" 3'–10 1/8"	MRACA2030TR 4'–0 1/8" 4'–0 5/8"	MRACA2430TR 4'–2 1/8" 4'–2 5/8"	MRACA2630TR 4' – 3 1/8" 4' – 3 5/8"	MRACA2830TR 4'–4 1/8" 4'–4 5/8"	MRACA3030TR 4'–6" 4'–6 1/2"	MRACA3530TR 4' – 8 3/4" 4' – 9 3/4"	MRACA4030TR 4' – 10 3/4" 4' – 11 3/4"
3–5	MRACA1835TR 4'–3 5/8" 4'–4 1/8"	MRACA2035TR 4'–5 5/8" 4'–6 1/8"	MRACA2435TR 4'–7 5/8" 4'–8 1/8"	MRACA2635TR 4' – 8 5/8" 4' – 9 1/8"	MRACA2835TR 4'–9 5/8" 4'–10 1/8"	MRACA3035TR 4'–11 1/2" 5'–0"	MRACA3535TR 5' – 2 1/4" 5' – 3 1/4"	MRACA4035TR 5' – 4 1/4" 5' – 5 1/4"
4–0	MRACA1840TR 4'–11 1/8" 5'–0 5/8"	MRACA2040TR 5'–1 5/8" 5'–2 1/8"	MRACA2440TR 5'–3 5/8" 5'–4 1/8"	MRACA2640TR 5' – 4 5/8" 5' – 5 1/8"	MRACA2840TR 5'–5 5/8" 5'–6 1/8"	MRACA3040TR 5'–7 1/2" 5'–8"	MRACA3540TR 5' – 10 1/4" 5' – 11 1/4"	MRACA4040TR 6' – 2 1/4" 6' – 3 1/4"
4–5	MRACA1845TR 5'–3 1/8" 5'–3 5/8"	MRACA2045TR 5'–5 1/8" 5'–5 5/8"	MRACA2445TR 5'–7 1/8" 5'–7 5/8"	MRACA2645TR 5' – 8 1/8" 5' – 8 5/8"	MRACA2845TR 5'–9 5/8" 5'–9 1/8"	MRACA3045TR 5'–11" 5'–11 1/2"	MRACA3545TR 6' – 1 3/4" 6' – 2 3/4"	MRACA4045TR 6' – 5 3/4" 6' – 6 3/4"
5–0	MRACA1850TR 5'–10 1/8" 5'–10 5/8"	MRACA2050TR 6'–0 1/8" 6'–0 5/8"	MRACA2450TR 6'–2 1/8" 6'–2 5/8"	MRACA2650TR 6' – 3 1/8" 6' – 3 5/8"	MRACA2850TR 6'–4 1/8" 6'–4 5/8"	MRACA3050TR 6'–6" 6'–6 1/2"	MRACA3550TR 6' – 8 3/4" 6' – 9 3/4"	MRACA4050TR 7' – 2 3/4" 7' – 3 3/4"
5–5	MRACA1855TR 6'–3 1/8" 6'–3 5/8"	MRACA2055TR 6'–5 1/8" 6'–5 5/8"	MRACA2455TR 6'–7 1/8" 6'–7 5/8"	MRACA2655TR 6' – 8 1/8" 6' – 8 5/8"	MRACA2855TR 6'–9 1/8" 6'–9 5/8"	MRACA3055TR 6'–11" 6'–11 1/2"	MRACA3555TR 7' – 1 1/4" 7' – 2 1/4"	MRACA4055TR 7' – 5 3/4" 7' – 6 3/4"
6–0	MRACA1860TR 6'–10 1/8" 6'–10 5/8"	MRACA2060TR 7'–0 1/8" 7'–0 5/8"	MRACA2460TR 7'–2 1/8" 7'–2 5/8"	MRACA2660TR 7' – 3 1/8" 7' – 3 5/8"	MRACA2860TR 7'–4 1/8" 7'–4 5/8"	MRACA3060TR 7'–6" 7'–6 1/2"	MRACA3560TR 7' – 8 3/4" 7' – 9 3/4"	MRACA4060TR 8' – 0 3/4" 8' – 1 3/4"

Widths



Unit Dimension	0'–11 3/8"	1'–1 3/8"	1'–3 3/8"	1'–5 3/8"	1'–7 3/8"	Call Size	Rough Opening	Unit Dimension
Rough Opening	1'–0 3/8"	1'–2 3/8"	1'–4 3/8"	1'–6 3/8"	1'–8 3/8"			
Call Size	0–10	1–0	1–2	1–4	1–6			
	MRACA01020SL	MRACA1020SL	MRACA1220SL	MRACA1420SL	MRACA1620SL	2–0	2'–0 3/4"	2'–0 1/4"
	MRACA01024SL	MRACA1024SL	MRACA1224SL	MRACA1424SL	MRACA1624SL	2–4	2'–4 3/4"	2'–4 1/4"
	MRACA01030SL	MRACA1030SL	MRACA1230SL	MRACA1430SL	MRACA1630SL	3–0	3'–0 1/2"	3'–0"
	MRACA01035SL	MRACA1035SL	MRACA1235SL	MRACA1435SL	MRACA1635SL	3–5	3'–6"	3'–5 1/2"
	MRACA01040SL	MRACA1040SL	MRACA1240SL	MRACA1440SL	MRACA1640SL	4–0	4'–2"	4'–1 1/2"
	MRACA01045SL	MRACA1045SL	MRACA1245SL	MRACA1445SL	MRACA1645SL	4–5	4'–5 1/2"	4'–5"
	MRACA01050SL	MRACA1050SL	MRACA1250SL	MRACA1450SL	MRACA1650SL	5–0	5'–0 1/2"	5'–0"
	MRACA01055SL	MRACA1055SL	MRACA1255SL	MRACA1455SL	MRACA1655SL	5–5	5'–5 1/2"	5'–5"
	MRACA01060SL	MRACA1060SL	MRACA1260SL	MRACA1460SL	MRACA1660SL	6–0	6'–0 1/2"	6'–0"



Optional Gothic Grille Pattern

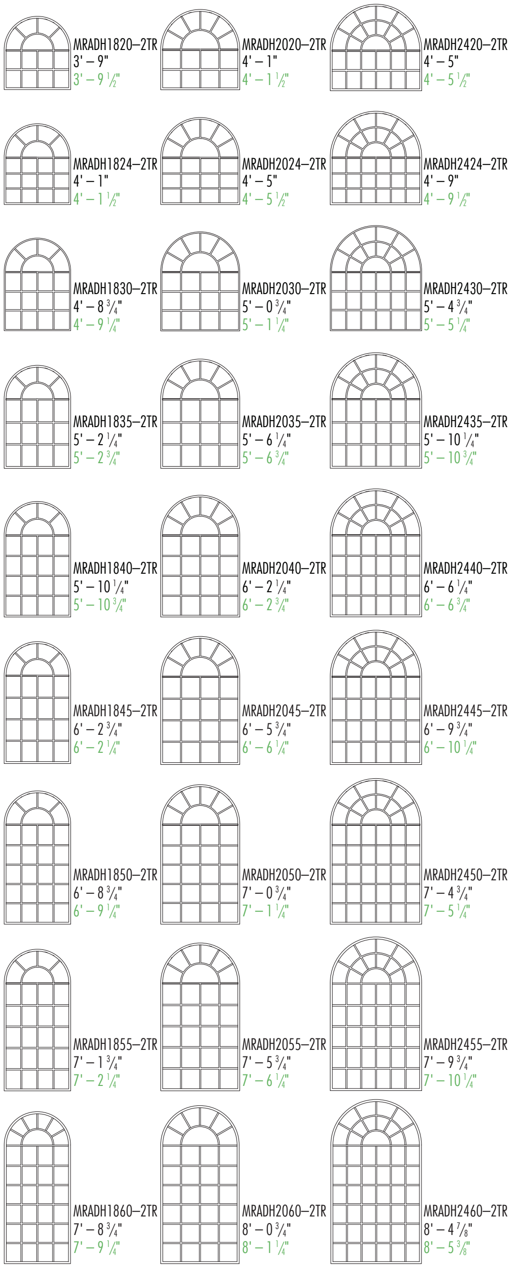
Casement –
True Radius Twin Units

Standard Colonial Grille Pattern
Widths

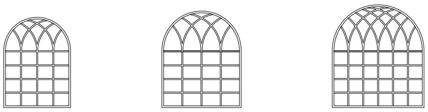
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

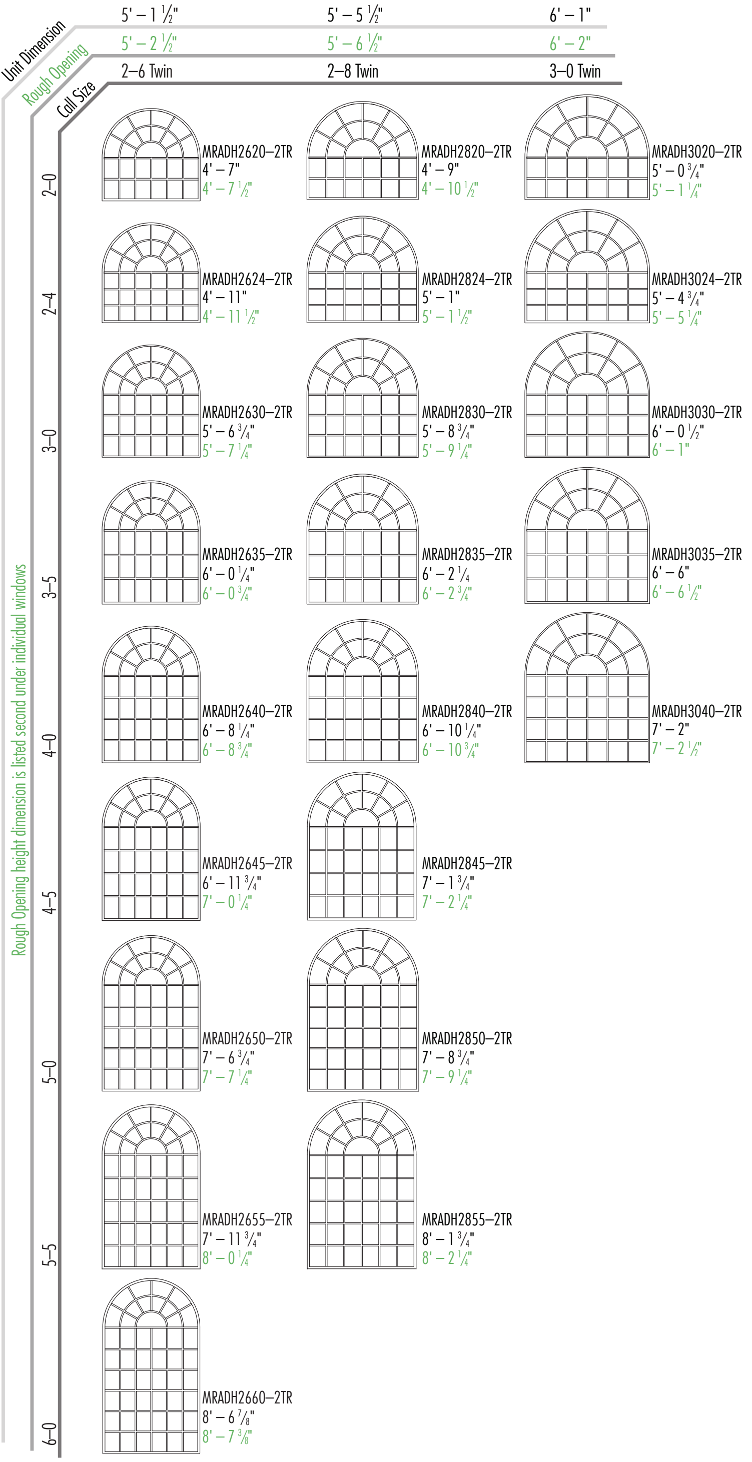


Unit Dimension	3' – 5 1/2"	4' – 1 1/2"	4' – 9 1/2"
Rough Opening	3' – 6 1/2"	4' – 2 1/2"	4' – 10 1/2"
Call Size	1–8 Twin	2–0 Twin	2–4 Twin
2–0	MRADH1820–2TR 3' – 9" 3' – 9 1/2"	MRADH2020–2TR 4' – 1" 4' – 1 1/2"	MRADH2420–2TR 4' – 5" 4' – 5 1/2"
2–4	MRADH1824–2TR 4' – 1" 4' – 1 1/2"	MRADH2024–2TR 4' – 5" 4' – 5 1/2"	MRADH2424–2TR 4' – 9" 4' – 9 1/2"
3–0	MRADH1830–2TR 4' – 8 3/4" 4' – 9 1/4"	MRADH2030–2TR 5' – 0 3/4" 5' – 1 1/4"	MRADH2430–2TR 5' – 4 3/4" 5' – 5 1/4"
3–5	MRADH1835–2TR 5' – 2 1/4" 5' – 2 3/4"	MRADH2035–2TR 5' – 6 1/4" 5' – 6 3/4"	MRADH2435–2TR 5' – 10 1/4" 5' – 10 3/4"
4–0	MRADH1840–2TR 5' – 10 1/4" 5' – 10 3/4"	MRADH2040–2TR 6' – 2 1/4" 6' – 2 3/4"	MRADH2440–2TR 6' – 6 1/4" 6' – 6 3/4"
4–5	MRADH1845–2TR 6' – 2 3/4" 6' – 2 1/4"	MRADH2045–2TR 6' – 5 3/4" 6' – 6 1/4"	MRADH2445–2TR 6' – 9 3/4" 6' – 10 1/4"
5–0	MRADH1850–2TR 6' – 8 3/4" 6' – 9 1/4"	MRADH2050–2TR 7' – 0 3/4" 7' – 1 1/4"	MRADH2450–2TR 7' – 4 3/4" 7' – 5 1/4"
5–5	MRADH1855–2TR 7' – 1 3/4" 7' – 2 1/4"	MRADH2055–2TR 7' – 5 3/4" 7' – 6 1/4"	MRADH2455–2TR 7' – 9 3/4" 7' – 10 1/4"
6–0	MRADH1860–2TR 7' – 8 3/4" 7' – 9 1/4"	MRADH2060–2TR 8' – 0 3/4" 8' – 1 1/4"	MRADH2460–2TR 8' – 4 7/8" 8' – 5 3/8"



Optional Gothic Grille Pattern

Standard Colonial Grille Pattern



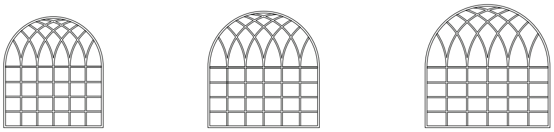
Widths

Heights

Unit height dimension is listed first under individual windows

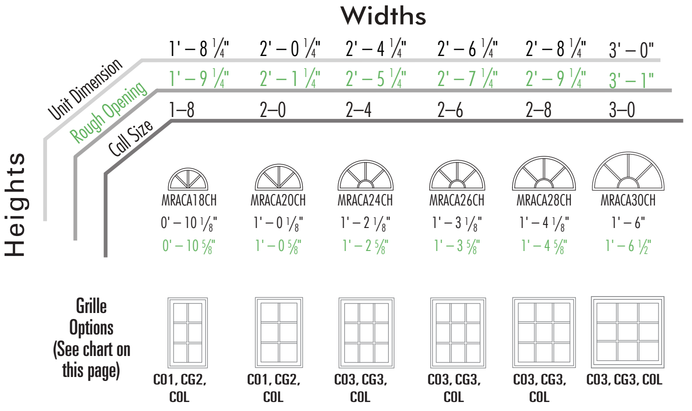
Rough Opening height dimension is listed second under individual windows

Unit Dimension	5' – 1 1/2"	5' – 5 1/2"	6' – 1"
Rough Opening	5' – 2 1/2"	5' – 6 1/2"	6' – 2"
Call Size	2–6 Twin	2–8 Twin	3–0 Twin
2–0	MRADH2620–2TR 4' – 7" 4' – 7 1/2"	MRADH2820–2TR 4' – 9" 4' – 10 1/2"	MRADH3020–2TR 5' – 0 3/4" 5' – 1 1/4"
2–4	MRADH2624–2TR 4' – 11" 4' – 11 1/2"	MRADH2824–2TR 5' – 1" 5' – 1 1/2"	MRADH3024–2TR 5' – 4 3/4" 5' – 5 1/4"
3–0	MRADH2630–2TR 5' – 6 3/4" 5' – 7 1/4"	MRADH2830–2TR 5' – 8 3/4" 5' – 9 1/4"	MRADH3030–2TR 6' – 0 1/2" 6' – 1"
3–5	MRADH2635–2TR 6' – 0 1/4" 6' – 0 3/4"	MRADH2835–2TR 6' – 2 1/4 6' – 2 3/4"	MRADH3035–2TR 6' – 6" 6' – 6 1/2"
4–0	MRADH2640–2TR 6' – 8 1/4" 6' – 8 3/4"	MRADH2840–2TR 6' – 10 1/4" 6' – 10 3/4"	MRADH3040–2TR 7' – 2" 7' – 2 1/2"
4–5	MRADH2645–2TR 6' – 11 3/4" 7' – 0 1/4"	MRADH2845–2TR 7' – 1 3/4" 7' – 2 1/4"	
5–0	MRADH2650–2TR 7' – 6 3/4" 7' – 7 1/4"	MRADH2850–2TR 7' – 8 3/4" 7' – 9 1/4"	
5–5	MRADH2655–2TR 7' – 11 3/4" 8' – 0 1/4"	MRADH2855–2TR 8' – 1 3/4" 8' – 2 1/4"	
6–0	MRADH2660–2TR 8' – 6 7/8" 8' – 7 3/8"		



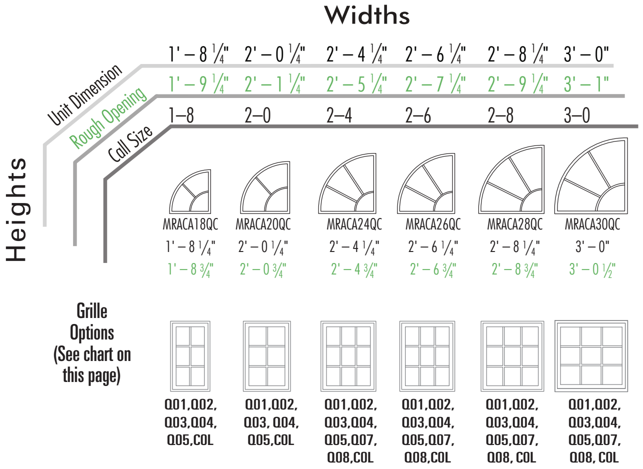
Optional Gothic Grille Pattern

Casement – Circle Head & Quarter Circle Units



Widths

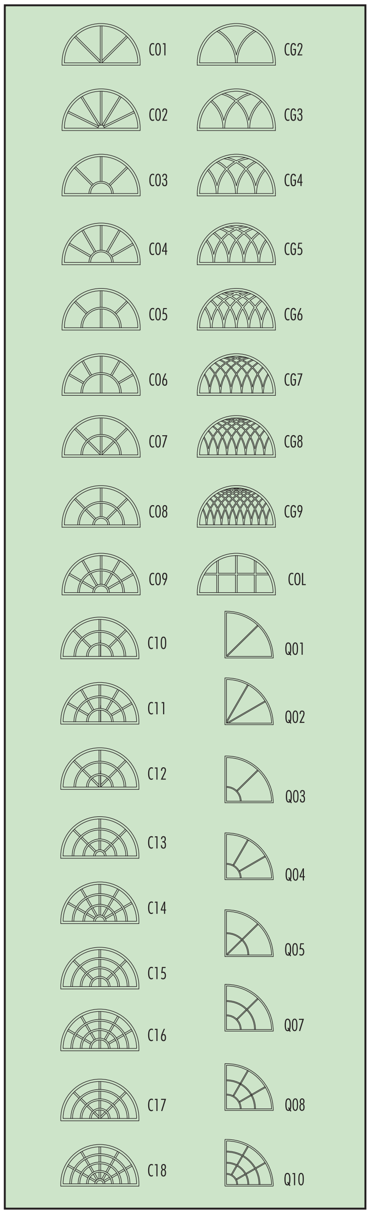
Unit Dimension	1' – 8 ¼"	2' – 0 ¼"	2' – 4 ¼"	2' – 6 ¼"	2' – 8 ¼"	3' – 0"
Rough Opening	1' – 9 ¼"	2' – 1 ¼"	2' – 5 ¼"	2' – 7 ¼"	2' – 9 ¼"	3' – 1"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0
Heights	MRACA18CH	MRACA20CH	MRACA24CH	MRACA26CH	MRACA28CH	MRACA30CH
	0' – 10 ⅛"	1' – 0 ⅛"	1' – 2 ⅛"	1' – 3 ⅛"	1' – 4 ⅛"	1' – 6"
	0' – 10 ⅝"	1' – 0 ⅝"	1' – 2 ⅝"	1' – 3 ⅝"	1' – 4 ⅝"	1' – 6 ½"
Grille Options (See chart on this page)	C01, CG2, COL	C01, CG2, COL	C03, CG3, COL	C03, CG3, COL	C03, CG3, COL	C03, CG3, COL



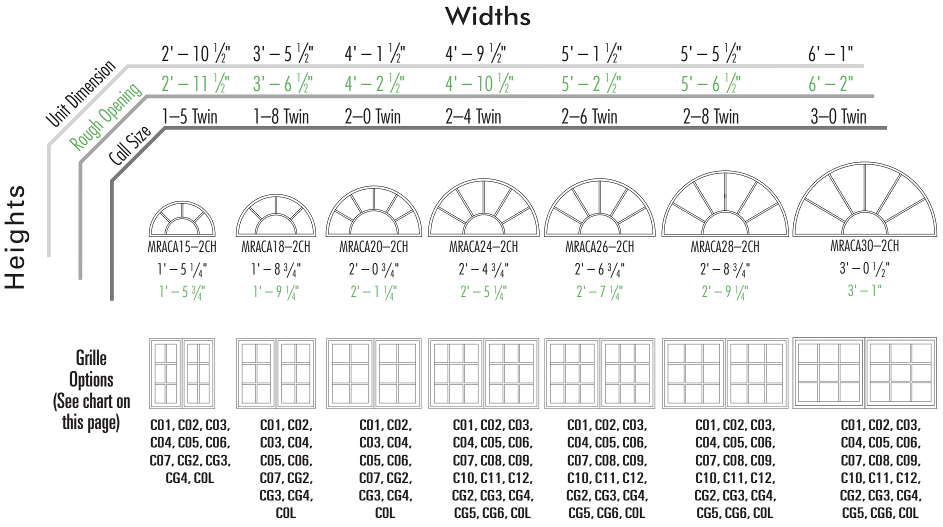
Widths

Unit Dimension	1' – 8 ¼"	2' – 0 ¼"	2' – 4 ¼"	2' – 6 ¼"	2' – 8 ¼"	3' – 0"
Rough Opening	1' – 9 ¼"	2' – 1 ¼"	2' – 5 ¼"	2' – 7 ¼"	2' – 9 ¼"	3' – 1"
Call Size	1–8	2–0	2–4	2–6	2–8	3–0
Heights	MRACA18QC	MRACA20QC	MRACA24QC	MRACA26QC	MRACA28QC	MRACA30QC
	1' – 8 ¼"	2' – 0 ¼"	2' – 4 ¼"	2' – 6 ¼"	2' – 8 ¼"	3' – 0"
	1' – 8 ¾"	2' – 0 ¾"	2' – 4 ¾"	2' – 6 ¾"	2' – 8 ¾"	3' – 0 ½"
Grille Options (See chart on this page)	Q01,Q02, Q03,Q04, Q05,COL	Q01,Q02, Q03, Q04, Q05,COL	Q01,Q02, Q03,Q04, Q05,Q07, Q08,COL	Q01,Q02, Q03,Q04, Q05,Q07, Q08,COL	Q01,Q02, Q03,Q04, Q05,Q07, Q08, COL	Q01,Q02, Q03,Q04, Q05,Q07, Q08, COL

Optional Grille Patterns

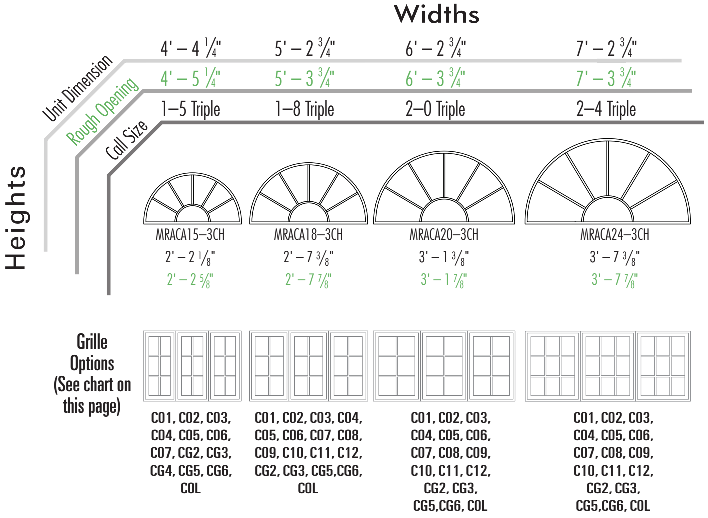


Use order code to specify pattern



Widths

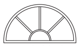
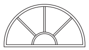
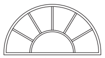
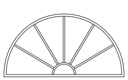
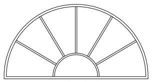
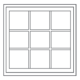
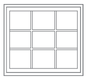
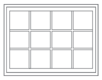
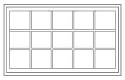
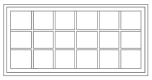
Unit Dimension	2' – 10 ½"	3' – 5 ½"	4' – 1 ½"	4' – 9 ½"	5' – 1 ½"	5' – 5 ½"	6' – 1"
Rough Opening	2' – 11 ½"	3' – 6 ½"	4' – 2 ½"	4' – 10 ½"	5' – 2 ½"	5' – 6 ½"	6' – 2"
Call Size	1–5 Twin	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin
Heights	MRACA15–2CH	MRACA18–2CH	MRACA20–2CH	MRACA24–2CH	MRACA26–2CH	MRACA28–2CH	MRACA30–2CH
	1' – 5 ¼"	1' – 8 ¾"	2' – 0 ¾"	2' – 4 ¾"	2' – 6 ¾"	2' – 8 ¾"	3' – 0 ½"
	1' – 5 ¾"	1' – 9 ¼"	2' – 1 ¼"	2' – 5 ¼"	2' – 7 ¼"	2' – 9 ¼"	3' – 1"
Grille Options (See chart on this page)	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG4, CG5, CG6, COL



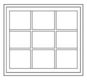
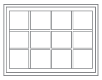
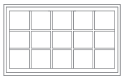
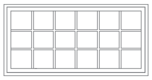
Widths

Unit Dimension	4' – 4 ¼"	5' – 2 ¾"	6' – 2 ¾"	7' – 2 ¾"
Rough Opening	4' – 5 ¼"	5' – 3 ¾"	6' – 3 ¾"	7' – 3 ¾"
Call Size	1–5 Triple	1–8 Triple	2–0 Triple	2–4 Triple
Heights	MRACA15–3CH	MRACA18–3CH	MRACA20–3CH	MRACA24–3CH
	2' – 2 ⅛"	2' – 7 ⅜"	3' – 1 ⅜"	3' – 7 ⅜"
	2' – 2 ⅝"	2' – 7 ⅞"	3' – 1 ⅞"	3' – 7 ⅞"
Grille Options (See chart on this page)	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG5,CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG5,CG6, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, CG2, CG3, CG5,CG6, COL

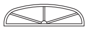
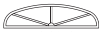
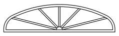
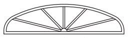
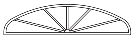
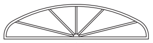
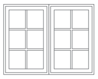
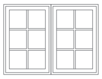
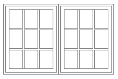
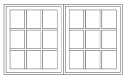
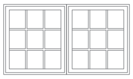
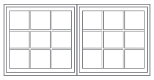
Widths

Unit Dimension	3' – 0"	3' – 5 ½"	4' – 1 ½"	5' – 0"	6' – 0"
Rough Opening	3' – 1"	3' – 6 ½"	4' – 2 ½"	5' – 1"	6' – 1"
Call Size	3–0 Picture	3–5 Picture	4–0 Picture	5–0 Picture	6–0 Picture
Heights					
	MRACA30PCH	MRACA35PCH	MRACA40PCH	MRACA50PCH	MRACA60PCH
Unit Dimension	1' – 6"	1' – 8 ¾"	2' – 0 ¾"	2' – 6"	3' – 0"
Rough Opening	1' – 6 ½"	1' – 9 ¼"	2' – 1 ¼"	2' – 6 ½"	3' – 0 ½"
Grille Options (See chart on opposite page)					
	C03, CG3, COL	C03, CG3, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C03, C04, C08, C09, CG3, CG5, COL	C01, C02, C03, C04, C05, C06, C07, C08, C09, C010, C011, C012, CG2, CG3, CG4, CG5, CG6, COL

Widths

Unit Dimension	3' – 5 ½"	4' – 1 ½"	5' – 0"	6' – 0"
Rough Opening	3' – 6 ½"	4' – 2 ½"	5' – 1"	6' – 1"
Call Size	3–5 Picture	4–0 Picture	5–0 Picture	6–0 Picture
Heights				
	MRACA35PEL	MRACA40PEL	MRACA50PEL	MRACA60PEL
Unit Dimension	0' – 10 ⅜"	1' – 0 ⅜"	1' – 3"	1' – 6"
Rough Opening	0' – 11 ⅞"	1' – 0 ⅞"	1' – 3 ½"	1' – 6 ½"
Grille Options (See chart on opposite page)				
	C03, CG3, COL	C01, CG2, CG3, CG4, COL	C03, C04, CG3, CG5, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL

Widths

Unit Dimension	3' – 5 ½"	4' – 1 ½"	4' – 9 ½"	3' – 5 ½"	5' – 5 ½"	6' – 1"
Rough Opening	3' – 6 ½"	4' – 2 ½"	4' – 10 ½"	3' – 6 ½"	5' – 6 ½"	6' – 2"
Call Size	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin
Heights						
	MRACA18–2EL	MRACA20–2EL	MRACA24–2EL	MRACA26–2EL	MRACA28–2EL	MRACA30–2EL
Unit Dimension	0' – 10 ⅜"	1' – 0 ⅜"	1' – 2 ⅜"	1' – 3 ⅜"	1' – 4 ⅜"	1' – 6 ¼"
Rough Opening	0' – 10 ⅞"	1' – 0 ⅞"	1' – 3 ⅞"	1' – 3 ⅞"	1' – 5 ⅞"	1' – 6 ¾"
Grille Options (See chart on opposite page)						
	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL	C01, C02, C03, C04, C05, C06, C07, CG2, CG3, CG4, CG5, CG6, COL

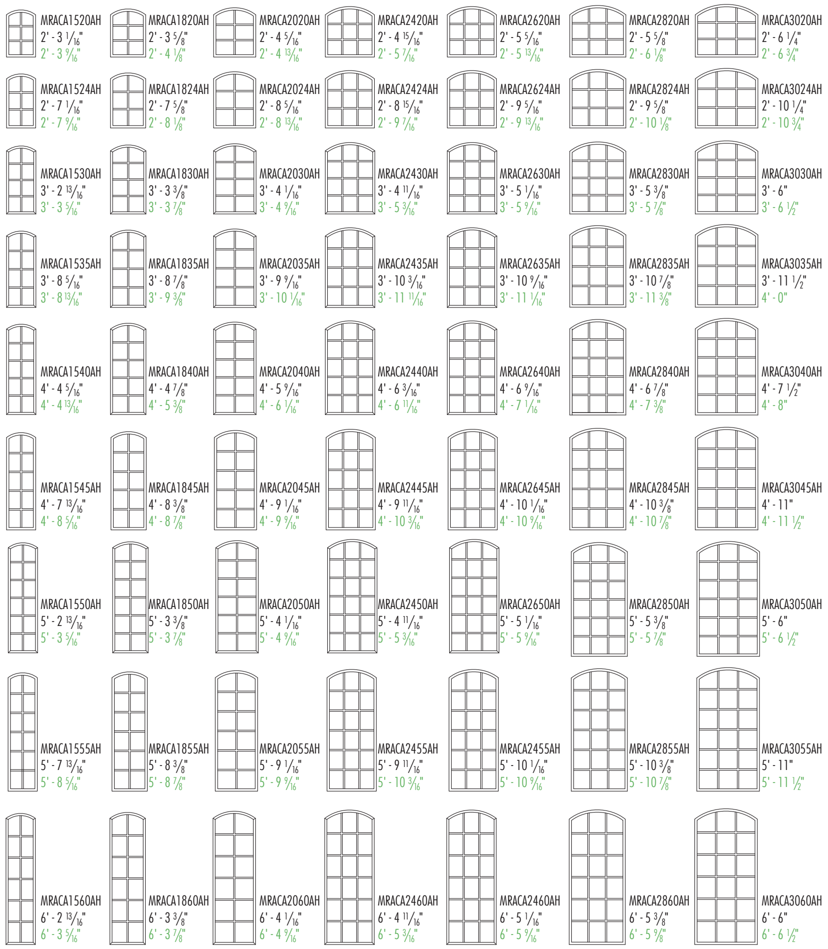
Standard Colonial Grille Pattern

Widths

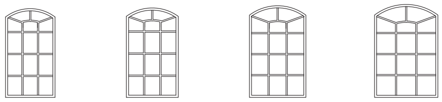
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows



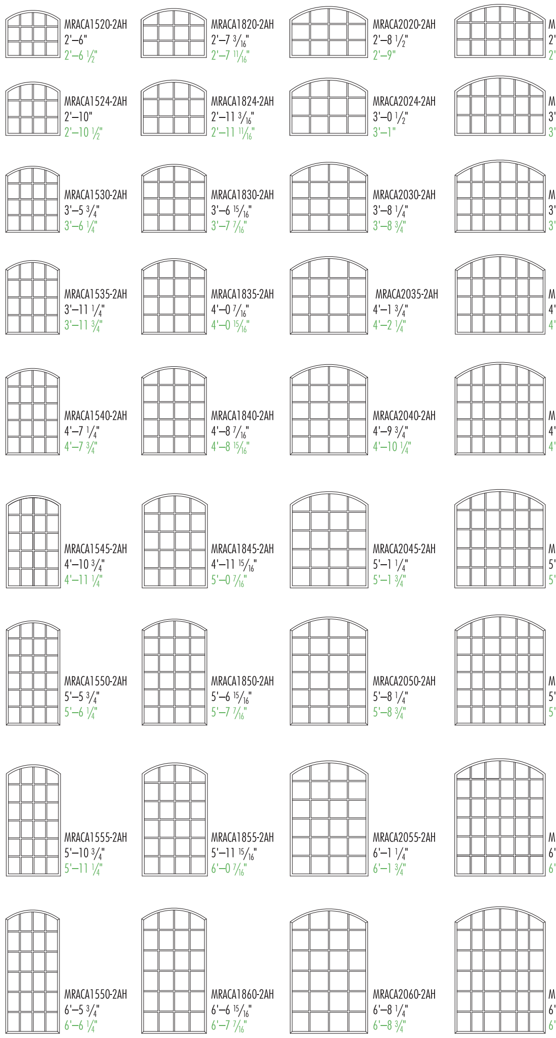
Call Size	1–5	1–8	2–0	2–4	2–6	2–8	3–0
Unit Dimension	1' – 4 3/4"	1' – 8 1/4"	2' –0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' - 8 1/4"	3' – 0"
Rough Opening	1' – 5 3/4"	1' – 9 1/4"	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' - 9 1/4"	3' – 1"
2–0	MRACA1520AH 2' - 3 1/16" 2' - 3 9/16"	MRACA1820AH 2' - 3 5/8" 2' - 4 1/8"	MRACA2020AH 2' - 4 5/16" 2' - 4 13/16"	MRACA2420AH 2' - 4 15/16" 2' - 5 7/16"	MRACA2620AH 2' - 5 5/16" 2' - 5 13/16"	MRACA2820AH 2' - 5 5/8" 2' - 6 1/8"	MRACA3020AH 2' - 6 1/4" 2' - 6 3/4"
2–4	MRACA1524AH 2' - 7 1/16" 2' - 7 9/16"	MRACA1824AH 2' - 7 5/8" 2' - 8 1/8"	MRACA2024AH 2' - 8 5/16" 2' - 8 13/16"	MRACA2424AH 2' - 8 15/16" 2' - 9 7/16"	MRACA2624AH 2' - 9 5/16" 2' - 9 13/16"	MRACA2824AH 2' - 9 5/8" 2' - 10 1/8"	MRACA3024AH 2' - 10 1/4" 2' - 10 3/4"
3–0	MRACA1530AH 3' - 2 13/16" 3' - 3 5/16"	MRACA1830AH 3' - 3 3/8" 3' - 3 7/8"	MRACA2030AH 3' - 4 1/16" 3' - 4 9/16"	MRACA2430AH 3' - 4 11/16" 3' - 5 3/16"	MRACA2630AH 3' - 5 1/16" 3' - 5 9/16"	MRACA2830AH 3' - 5 3/8" 3' - 5 7/8"	MRACA3030AH 3' - 6" 3' - 6 1/2"
3–5	MRACA1535AH 3' - 8 5/16" 3' - 8 13/16"	MRACA1835AH 3' - 8 7/8" 3' - 9 3/8"	MRACA2035AH 3' - 9 9/16" 3' - 10 1/16"	MRACA2435AH 3' - 10 3/16" 3' - 11 11/16"	MRACA2635AH 3' - 10 9/16" 3' - 11 1/16"	MRACA2835AH 3' - 10 7/8" 3' - 11 3/8"	MRACA3035AH 3' - 11 1/2" 4' - 0"
4–0	MRACA1540AH 4' - 4 5/16" 4' - 4 13/16"	MRACA1840AH 4' - 4 7/8" 4' - 5 3/8"	MRACA2040AH 4' - 5 9/16" 4' - 6 1/16"	MRACA2440AH 4' - 6 3/16" 4' - 6 11/16"	MRACA2640AH 4' - 6 9/16" 4' - 7 1/16"	MRACA2840AH 4' - 6 7/8" 4' - 7 3/8"	MRACA3040AH 4' - 7 1/2" 4' - 8"
4–5	MRACA1545AH 4' - 7 13/16" 4' - 8 5/16"	MRACA1845AH 4' - 8 3/8" 4' - 8 7/8"	MRACA2045AH 4' - 9 1/16" 4' - 9 9/16"	MRACA2445AH 4' - 9 11/16" 4' - 10 3/16"	MRACA2645AH 4' - 10 1/16" 4' - 10 9/16"	MRACA2845AH 4' - 10 3/8" 4' - 10 7/8"	MRACA3045AH 4' - 11" 4' - 11 1/2"
5–0	MRACA1550AH 5' - 2 13/16" 5' - 3 5/16"	MRACA1850AH 5' - 3 3/8" 5' - 3 7/8"	MRACA2050AH 5' - 4 1/16" 5' - 4 9/16"	MRACA2450AH 5' - 4 11/16" 5' - 5 3/16"	MRACA2650AH 5' - 5 1/16" 5' - 5 9/16"	MRACA2850AH 5' - 5 3/8" 5' - 5 7/8"	MRACA3050AH 5' - 6" 5' - 6 1/2"
5–5	MRACA1555AH 5' - 7 13/16" 5' - 8 5/16"	MRACA1855AH 5' - 8 3/8" 5' - 8 7/8"	MRACA2055AH 5' - 9 1/16" 5' - 9 9/16"	MRACA2455AH 5' - 9 11/16" 5' - 10 3/16"	MRACA2455AH 5' - 10 1/16" 5' - 10 9/16"	MRACA2855AH 5' - 10 3/8" 5' - 10 7/8"	MRACA3055AH 5' - 11" 5' - 11 1/2"
6–0	MRACA1560AH 6' - 2 13/16" 6' - 3 5/16"	MRACA1860AH 6' - 3 3/8" 6' - 3 7/8"	MRACA2060AH 6' - 4 1/16" 6' - 4 9/16"	MRACA2460AH 6' - 4 11/16" 6' - 5 3/16"	MRACA2460AH 6' - 5 1/16" 6' - 5 9/16"	MRACA2860AH 6' - 5 3/8" 6' - 5 9/8"	MRACA3060AH 6' - 6" 6' - 6 1/2"



Optional Renaissance Grille Pattern

Standard Colonial Grille Pattern

Widths

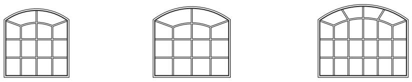


Unit Dimension	2' – 10 1/2"	3' – 5 1/2"	4' – 1 1/2"	4' – 9 1/2"
Rough Opening	2' – 11 1/2"	3' – 6 1/2"	4' – 2 1/2"	4' – 10 1/2"
Call Size	1–5 Twin	1–8 Twin	2–0 Twin	2–4 Twin
2–0	MRACA1520-2AH 2'–6" 2'–6 1/2"	MRACA1820-2AH 2'–7 3/16" 2'–7 11/16"	MRACA2020-2AH 2'–8 1/2" 2'–9"	MRACA2420-2AH 2'–9 13/16" 2'–10 5/16"
2–4	MRACA1524-2AH 2'–10" 2'–10 1/2"	MRACA1824-2AH 2'–11 3/16" 2'–11 11/16"	MRACA2024-2AH 3'–0 1/2" 3'–1"	MRACA2424-2AH 3'–1 13/16" 3'–2 5/16"
3–0	MRACA1530-2AH 3'–5 3/4" 3'–6 1/4"	MRACA1830-2AH 3'–6 15/16" 3'–7 7/16"	MRACA2030-2AH 3'–8 1/4" 3'–8 3/4"	MRACA2430-2AH 3'–9 9/16" 3'–10 1/16"
3–5	MRACA1535-2AH 3'–11 1/4" 3'–11 3/4"	MRACA1835-2AH 4'–0 7/16" 4'–0 15/16"	MRACA2035-2AH 4'–1 3/4" 4'–2 1/4"	MRACA2435-2AH 4'–3 1/16" 4'–3 9/16"
4–0	MRACA1540-2AH 4'–7 1/4" 4'–7 3/4"	MRACA1840-2AH 4'–8 7/16" 4'–8 15/16"	MRACA2040-2AH 4'–9 3/4" 4'–10 1/4"	MRACA2440-2AH 4'–11 1/16" 4'–11 9/16"
4–5	MRACA1545-2AH 4'–10 3/4" 4'–11 1/4"	MRACA1845-2AH 4'–11 15/16" 5'–0 7/16"	MRACA2045-2AH 5'–1 1/4" 5'–1 3/4"	MRACA2445-2AH 5'–2 9/16" 5'–3 1/16"
5–0	MRACA1550-2AH 5'–5 3/4" 5'–6 1/4"	MRACA1850-2AH 5'–6 15/16" 5'–7 7/16"	MRACA2050-2AH 5'–8 1/4" 5'–8 3/4"	MRACA2450-2AH 5'–9 9/16" 5'–10 1/16"
5–5	MRACA1555-2AH 5'–10 3/4" 5'–11 1/4"	MRACA1855-2AH 5'–11 15/16" 6'–0 7/16"	MRACA2055-2AH 6'–1 1/4" 6'–1 3/4"	MRACA2455-2AH 6'–2 9/16" 6'–3 1/16"
6–0	MRACA1550-2AH 6'–5 3/4" 6'–6 1/4"	MRACA1860-2AH 6'–6 15/16" 6'–7 7/16"	MRACA2060-2AH 6'–8 1/4" 6'–8 3/4"	MRACA2460-2AH 6'–9 9/16" 6'–10 1/16"

Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows



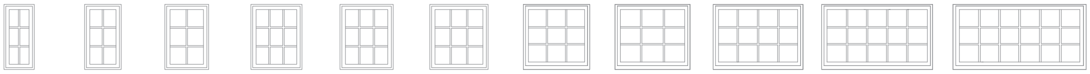
Optional Renaissance Grille Pattern

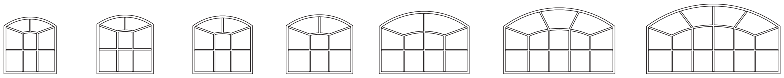
Standard Colonial Grille Pattern
Widths

Heights

Unit height dimension is listed first under individual windows
Rough Opening height dimension is listed second under individual windows

Unit Dimension	1'–4 3/4"	1'–8 1/4"	2'–0 1/4"	2'–4 1/4"	2'–6 1/4"	2'–8 1/4"	3'–0"	3'–5 1/2"	4'–1 1/2"	5'–0"	6'–0"
Rough Opening	1'–5 3/4"	1'–9 1/4"	2'–1 1/4"	2'–5 1/4"	2'–7 1/4"	2'–9 1/4"	3'–1"	3'–6 1/2"	4'–2 1/2"	5'–1"	6'–1"
Call Size	1–5	1–8	2–0	2–4	2–6	2–8	3–0	3–5	4–0	5–0	6–0
0–6	MRACA1506AHTN 0'–10 3/16" 0'–10 11/16"	MRACA1806AHTN 0'–10 3/4" 0'–11 1/4"	MRACA2006AHTN 0'–11 7/16" 0'–11 15/16"	MRACA2406AHTN 1'–0 1/16" 1'–0 9/16"	MRACA2606AHTN 1'–0 7/16" 1'–0 15/16"	MRACA2806AHTN 1'–0 3/4" 1'–1 1/4"	MRACA3006AHTN 1'–1 3/8" 1'–1 7/8"	MRACA3506AHTN 1'–2 5/16" 1'–2 13/16"	MRACA4006AHTN 1'–3 5/8" 1'–4 1/8"	MRACA5006AHTN 1'–5 3/8" 1'–5 7/8"	MRACA6006AHTN 1'–7 3/8" 1'–7 7/8"
0–10	MRACA15010AHTN 1'–2 3/16" 1'–2 11/16"	MRACA18010AHTN 1'–2 3/4" 1'–3 1/4"	MRACA20010AHTN 1'–3 7/16" 1'–3 15/16"	MRACA24010AHTN 1'–4 1/16" 1'–4 9/16"	MRACA26010AHTN 1'–4 7/16" 1'–4 15/16"	MRACA28010AHTN 1'–4 3/4" 1'–5 1/4"	MRACA30010AHTN 1'–5 3/8" 1'–5 7/8"	MRACA35010AHTN 1'–6 5/16" 1'–6 13/16"	MRACA40010AHTN 1'–7 5/8" 1'–8 1/8"	MRACA50010AHTN 1'–9 3/8" 1'–9 7/8"	MRACA60010AHTN 1'–11 3/8" 1'–11 7/8"
1–0	MRACA1510AHTN 1'–4 3/16" 1'–4 11/16"	MRACA1810AHTN 1'–4 3/4" 1'–5 1/4"	MRACA2010AHTN 1'–5 7/16" 1'–5 15/16"	MRACA2410AHTN 1'–6 1/16" 1'–6 9/16"	MRACA2610AHTN 1'–6 7/16" 1'–6 15/16"	MRACA2810AHTN 1'–6 3/4" 1'–7 1/4"	MRACA3010AHTN 1'–7 3/8" 1'–7 7/8"	MRACA3510AHTN 1'–8 5/16" 1'–8 13/16"	MRACA4010AHTN 1'–9 5/8" 1'–10 1/8"	MRACA5010AHTN 1'–11 3/8" 1'–11 7/8"	MRACA6010AHTN 2'–1 3/8" 2'–1 7/8"
1–2	MRACA1512AHTN 1'–6 3/16" 1'–6 11/16"	MRACA1812AHTN 1'–6 3/4" 1'–7 1/4"	MRACA2012AHTN 1'–7 7/16" 1'–7 15/16"	MRACA2412AHTN 1'–8 1/16" 1'–8 9/16"	MRACA2612AHTN 1'–8 7/16" 1'–8 15/16"	MRACA2812AHTN 1'–8 3/4" 1'–9 1/4"	MRACA3012AHTN 1'–9 3/8" 1'–9 7/8"	MRACA3512AHTN 1'–10 5/16" 1'–10 13/16"	MRACA4012AHTN 1'–11 5/8" 2'–0 1/8"	MRACA5012AHTN 2'–1 3/8" 2'–1 7/8"	MRACA6012AHTN 2'–3 3/8" 2'–3 7/8"
1–6	MRACA1516AHTN 1'–10 3/16" 1'–10 11/16"	MRACA1816AHTN 1'–10 3/4" 1'–11 1/4"	MRACA2016AHTN 1'–11 7/16" 1'–11 15/16"	MRACA2416AHTN 2'–0 1/16" 2'–0 9/16"	MRACA2616AHTN 2'–0 7/16" 2'–0 15/16"	MRACA2816AHTN 2'–0 3/4" 2'–1 1/4"	MRACA3016AHTN 2'–1 3/8" 2'–1 7/8"	MRACA3512AHTN 2'–2 5/16" 2'–2 13/16"	MRACA4016AHTN 2'–3 5/8" 2'–4 1/8"	MRACA5016AHTN 2'–5 3/8" 2'–5 7/8"	MRACA6016AHTN 2'–7 3/8" 2'–7 7/8"
2–0	MRACA1520AHTN 2'–3 1/16" 2'–3 9/16"	MRACA1820AHTN 2'–3 5/8" 2'–4 1/8"	MRACA2020AHTN 2'–4 5/16" 2'–4 13/16"	MRACA2420AHTN 2'–4 15/16" 2'–5 7/16"	MRACA2620AHTN 2'–5 5/16" 2'–5 13/16"	MRACA2820AHTN 2'–5 5/8" 2'–6 1/8"	MRACA3020AHTN 2'–6 1/4" 2'–6 3/4"	MRACA3520AHTN 2'–8 5/16" 2'–8 13/16"	MRACA4020AHTN 2'–8 1/2" 2'–9"	MRACA5020AHTN 2'–10 1/4" 2'–10 3/4"	MRACA6020AHTN 3'–0 1/4" 3'–0 3/4"





Optional Renaissance Grille Pattern

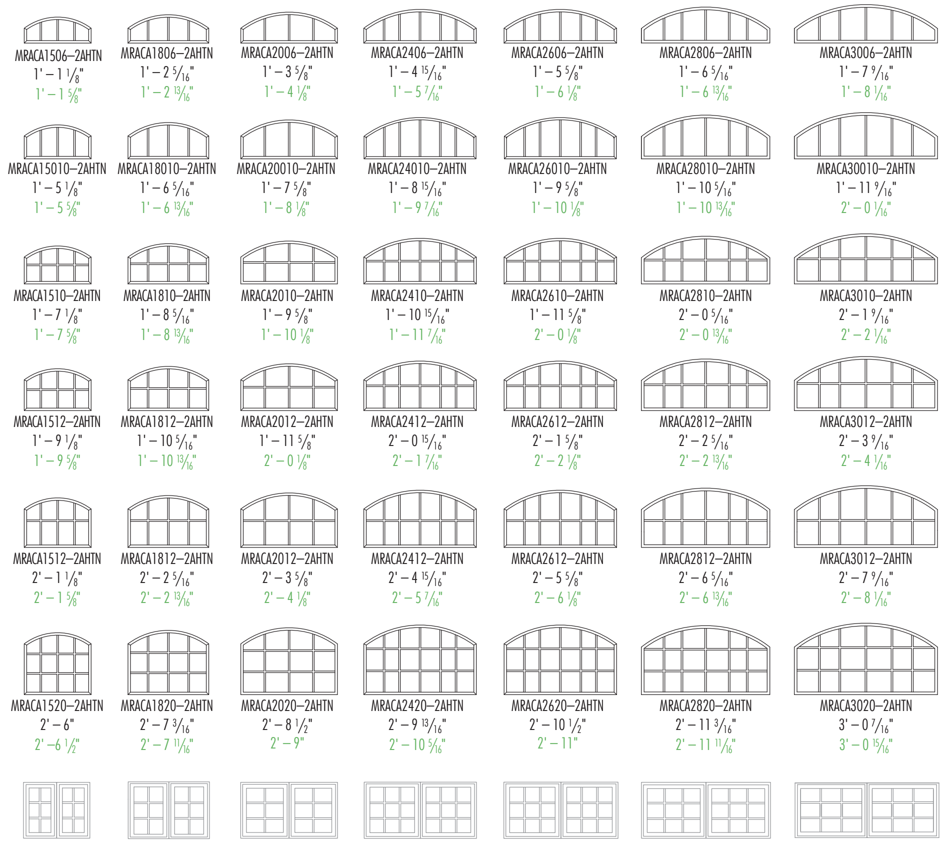
Standard Colonial Grille Pattern

Widths

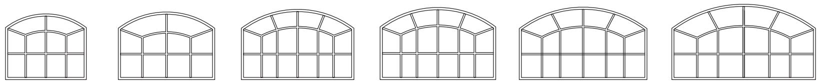
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows



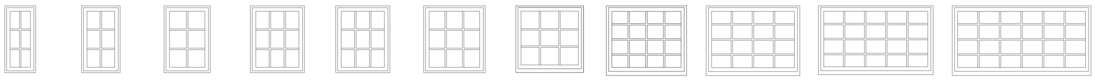
Unit Dimension	2' – 10 1/2"	3' – 5 1/2"	4' – 1 1/2"	4' – 9 1/2"	5' – 1 1/2"	5' – 5 1/2"	6' – 1"
Rough Opening	2' – 11 1/2"	3' – 6 1/2"	4' – 2 1/2"	4' – 10 1/2"	5' – 2 1/2"	5' – 6 1/2"	6' – 2"
Call Size	1–5 Twin	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin
0–6	MRACA1506–2AHTN 1' – 1 1/8" 1' – 1 5/8"	MRACA1806–2AHTN 1' – 2 5/16" 1' – 2 13/16"	MRACA2006–2AHTN 1' – 3 5/8" 1' – 4 1/8"	MRACA2406–2AHTN 1' – 4 15/16" 1' – 5 7/16"	MRACA2606–2AHTN 1' – 5 5/8" 1' – 6 1/8"	MRACA2806–2AHTN 1' – 6 5/16" 1' – 6 13/16"	MRACA3006–2AHTN 1' – 7 9/16" 1' – 8 1/16"
0–10	MRACA15010–2AHTN 1' – 5 1/8" 1' – 5 5/8"	MRACA18010–2AHTN 1' – 6 5/16" 1' – 6 13/16"	MRACA20010–2AHTN 1' – 7 5/8" 1' – 8 1/8"	MRACA24010–2AHTN 1' – 8 15/16" 1' – 9 7/16"	MRACA26010–2AHTN 1' – 9 5/8" 1' – 10 1/8"	MRACA28010–2AHTN 1' – 10 5/16" 1' – 10 13/16"	MRACA30010–2AHTN 1' – 11 9/16" 2' – 0 1/16"
1–0	MRACA1510–2AHTN 1' – 7 1/8" 1' – 7 5/8"	MRACA1810–2AHTN 1' – 8 5/16" 1' – 8 13/16"	MRACA2010–2AHTN 1' – 9 5/8" 1' – 10 1/8"	MRACA2410–2AHTN 1' – 10 15/16" 1' – 11 7/16"	MRACA2610–2AHTN 1' – 11 5/8" 2' – 0 1/8"	MRACA2810–2AHTN 2' – 0 5/16" 2' – 0 13/16"	MRACA3010–2AHTN 2' – 1 9/16" 2' – 2 1/16"
1–2	MRACA1512–2AHTN 1' – 9 1/8" 1' – 9 5/8"	MRACA1812–2AHTN 1' – 10 5/16" 1' – 10 13/16"	MRACA2012–2AHTN 1' – 11 5/8" 2' – 0 1/8"	MRACA2412–2AHTN 2' – 0 15/16" 2' – 1 7/16"	MRACA2612–2AHTN 2' – 1 5/8" 2' – 2 1/8"	MRACA2812–2AHTN 2' – 2 5/16" 2' – 2 13/16"	MRACA3012–2AHTN 2' – 3 9/16" 2' – 4 1/16"
1–6	MRACA1512–2AHTN 2' – 1 1/8" 2' – 1 5/8"	MRACA1812–2AHTN 2' – 2 5/16" 2' – 2 13/16"	MRACA2012–2AHTN 2' – 3 5/8" 2' – 4 1/8"	MRACA2412–2AHTN 2' – 4 15/16" 2' – 5 7/16"	MRACA2612–2AHTN 2' – 5 5/8" 2' – 6 1/8"	MRACA2812–2AHTN 2' – 6 5/16" 2' – 6 13/16"	MRACA3012–2AHTN 2' – 7 9/16" 2' – 8 1/16"
2–0	MRACA1520–2AHTN 2' – 6" 2' –6 1/2"	MRACA1820–2AHTN 2' – 7 3/16" 2' – 7 11/16"	MRACA2020–2AHTN 2' – 8 1/2" 2' – 9"	MRACA2420–2AHTN 2' – 9 13/16" 2' – 10 5/16"	MRACA2620–2AHTN 2' – 10 1/2" 2' – 11"	MRACA2820–2AHTN 2' – 11 3/16" 2' – 11 11/16"	MRACA3020–2AHTN 3' – 0 7/16" 3' – 0 15/16"



Optional Renaissance Grille Pattern

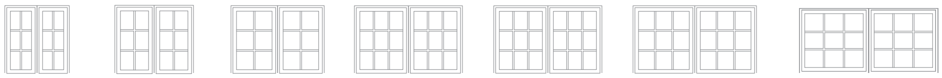
Single Widths

Heights Unit Dimension	Rough Opening	Call Size											
Unit Dimension			1'–4 3/4"	1'–8 1/4"	2'–0 1/4"	2'–4 1/4"	2'–6 1/4"	2'–8 1/4"	3'–0"	3'–5 1/2"	4'–1 1/2"	5'–0"	6'–0"
	Rough Opening		1'–5 3/4"	1'–9 1/4"	2'–1 1/4"	2'–5 1/4"	2'–7 1/4"	2'–9 1/4"	3'–1"	3'–6 1/2"	4'–2 1/2"	5'–1"	6'–1"
		Call Size	1–5	1–8	2–0	2–4	2–6	2–8	3–0	3–5 Picture	4–0 Picture	5–0 Picture	6–0 Picture
0–11 3/8"	0–11 7/8"	0–10	MRACA18010TN	MRACA18010TN	MRACA20010TN	MRACA24010TN	MRACA26010TN	MRACA28010TN	MRACA30010–TN	MRACA35010–PTN	MRACA40010–PTN	MRACA50010–PTN	MRACA60010–PTN
1'–1 3/8"	1'–1 7/8"	1–0	MRACA1810TN	MRACA1810TN	MRACA2010TN	MRACA2410TN	MRACA2610TN	MRACA2810TN	MRACA3010–TN	MRACA3510–PTN	MRACA4010–PTN	MRACA5010–PTN	MRACA6010–PTN
1'–3 3/8"	1'–3 7/8"	1–2	MRACA1812TN	MRACA1812TN	MRACA2012TN	MRACA2412TN	MRACA2612TN	MRACA2812TN	MRACA3012–TN	MRACA3512–PTN	MRACA4012–PTN	MRACA5012–PTN	MRACA6012–PTN
1'–7 3/8"	1'–7 7/8"	1–6	MRACA1816TN	MRACA1816TN	MRACA2016TN	MRACA2416TN	MRACA2616TN	MRACA2816TN	MRACA3016–TN	MRACA3516–PTN	MRACA4016–PTN	MRACA5016–PTN	MRACA6016–PTN
2'–0 1/4"	2'–0 3/4"	2–0	MRACA1820TN	MRACA1820TN	MRACA2020TN	MRACA2420TN	MRACA2620TN	MRACA2820TN	MRACA3020–PTN	MRACA3520–PTN	MRACA4020–PTN	MRACA5020–PTN	MRACA6020–PTN
2'–4 1/4"	2'–4 3/4"	2–4	MRACA1824TN	MRACA1824TN	MRACA2024TN	MRACA2424TN	MRACA2624TN	MRACA2824TN	MRACA3024–PTN	MRACA3524–PTN	MRACA4024–PTN	MRACA5024–PTN	MRACA6024–PTN



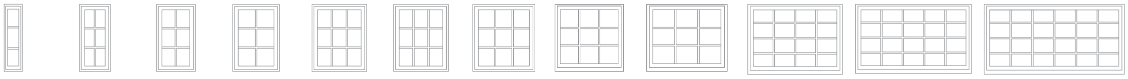
Twin Widths

Heights Unit Dimension	Rough Opening	Call Size							
Unit Dimension			2' – 10 1/2"	3' – 5 1/2"	4' – 1 1/2"	4' – 9 1/2"	5' – 1 1/2"	5' – 5 1/2"	6' – 1"
	Rough Opening		2' – 11 1/2"	3' – 6 1/2"	4' – 2 1/2"	4' – 10 1/2"	5' – 2 1/2"	5' – 6 1/2"	6' – 2"
		Call Size	1–5 Twin	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin
0–11 3/8"	0–11 7/8"	0–10	MRACA15010–2TN	MRACA18010–2TN	MRACA20010–2TN	MRACA24010–2TN	MRACA26010–2TN	MRACA28010–2TN	MRACA30010–2TN
1'–1 3/8"	1'–1 7/8"	1–0	MRACA1510–2TN	MRACA1810–2TN	MRACA2010–2TN	MRACA2410–2TN	MRACA2610–2TN	MRACA2810–2TN	MRACA3010–2TN
1'–3 3/8"	1'–3 7/8"	1–2	MRACA1512–2TN	MRACA1812–2TN	MRACA2012–2TN	MRACA2412–2TN	MRACA2612–2TN	MRACA2812–2TN	MRACA3012–2TN
1'–7 3/8"	1'–7 7/8"	1–6	MRACA1520–2TN	MRACA1820–2TN	MRACA2020–2TN	MRACA2420–2TN	MRACA2620–2TN	MRACA2820–2TN	MRACA3016–2TN
2'–0 1/4"	2'–0 3/4"	2–0	MRACA1520–2TN	MRACA1820–2TN	MRACA2020–2TN	MRACA2420–2TN	MRACA2620–2TN	MRACA2820–2TN	MRACA3020–2TN
2'–4 1/4"	2'–4 3/4"	2–4	MRACA1524–2TN	MRACA1824–2TN	MRACA2024–2TN	MRACA2424–2TN	MRACA2624–2TN	MRACA2824–2TN	MRACA3024–2TN



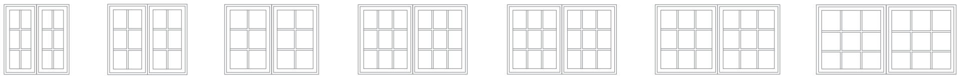
Single Widths

Heights: Unit Dimension	Rough Opening	Call Size												
		Unit Dimension	1'–1 3/8"	1'–4 3/4"	1'–8 1/4"	2'–0 1/4"	2'–4 1/4"	2'–6 1/4"	2'–8 1/4"	3'–0"	3'–5 1/2"	4'–1 1/2"	5'–0"	6'–0"
		Rough Opening	1'–2 3/8"	1'–5 3/4"	1'–9 1/4"	2'–1 1/4"	2'–5 1/4"	2'–7 1/4"	2'–9 1/4"	3'–1"	3'–6 1/2"	4'–2 1/2"	5'–1"	6'–1"
		Call Size	1–0	1–5	1–8	2–0	2–4	2–6	2–8	3–0	3–5 Picture	4–0 Picture	5–0 Picture	6–0 Picture
1'–1 3/8"	1'–1 7/8"	1–0	MRACA1010SFTN	MRACA1510SFTN	MRACA1810SFTN	MRACA2010SFTN	MRACA2410SFTN	MRACA2610SFTN	MRACA2810SFTN	MRACA3010SFTN	MRACA3510PSFTN	MRACA4010PSFTN	MRACA5010PSFTN	MRACA6010PSFTN
1'–4 3/4"	1'–5 1/4"	1–5	MRACA1015SFTN	MRACA1515SFTN	MRACA1815SFTN	MRACA2015SFTN	MRACA2415SFTN	MRACA2615SFTN	MRACA2815SFTN	MRACA3015SFTN	MRACA3515SFTN	MRACA4015PSFTN	MRACA5015PSFTN	MRACA6015PSFTN
1'–8 1/4"	1'–8 3/4"	1–8	MRACA1018TN	MRACA1518TN	MRACA1818TN	MRACA2018TN	MRACA2418TN	MRACA2618TN	MRACA2818TN	MRACA3018TN	MRACA3518TN	MRACA4018PSFTN	MRACA5018PSFTN	MRACA6018PSFTN
2'–0 1/4"	2'–0 3/4"	2–0	MRACA1020SFTN	MRACA1520SFTN	MRACA1820SFTN	MRACA2020SFTN	MRACA2420SFTN	MRACA2620SFTN	MRACA2820SFTN	MRACA3020SFTN	MRACA3520SFTN	MRACA4020PSFTN	MRACA5020PSFTN	MRACA6020PSFTN
2'–4 1/4"	2'–4 3/4"	2–4	MRACA1024SFTN	MRACA1524SFTN	MRACA1824SFTN	MRACA2024SFTN	MRACA2424SFTN	MRACA2624SFTN	MRACA2824SFTN	MRACA3024SFTN	MRACA3524SFTN	MRACA4024PSFTN	MRACA5024PSFTN	MRACA6024PSFTN



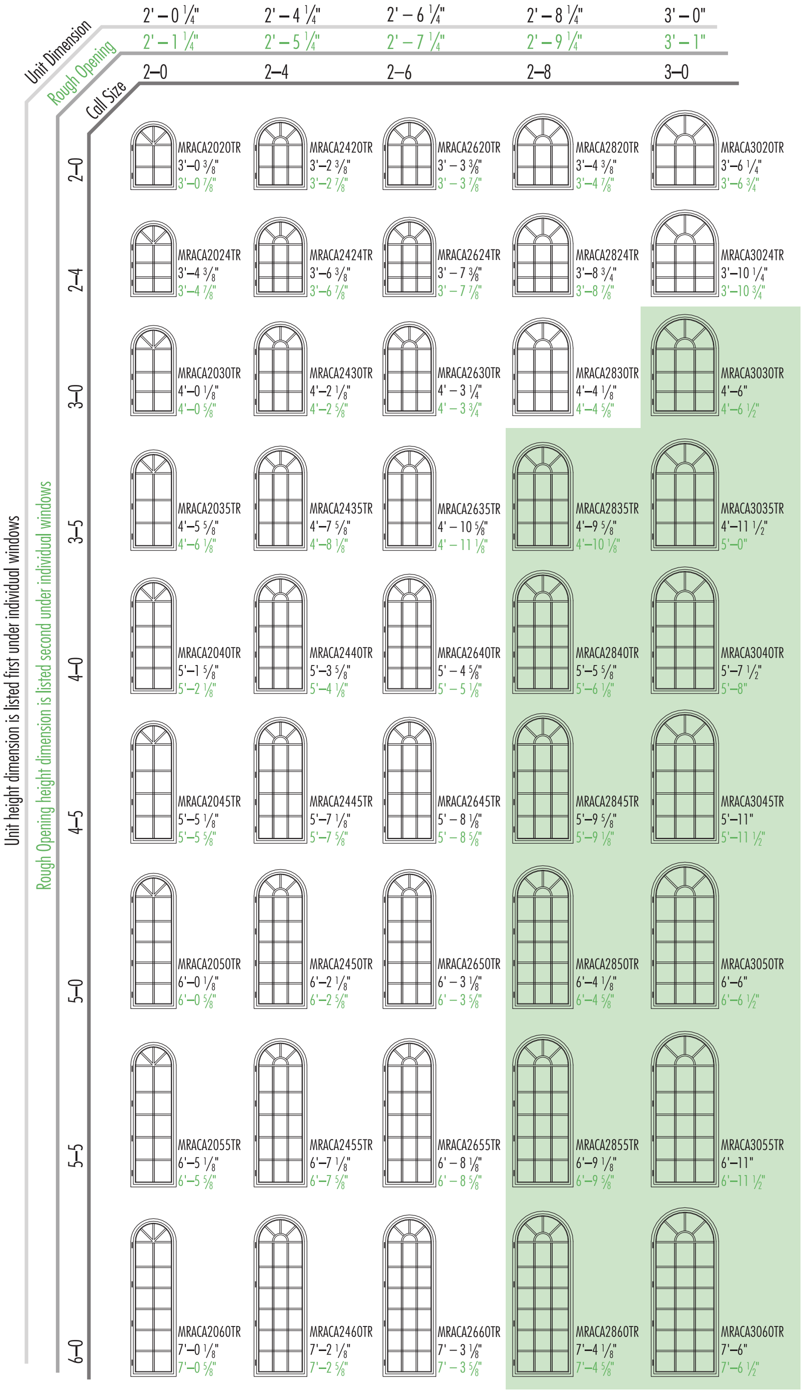
Twin Widths

Heights: Unit Dimension	Rough Opening	Call Size							
		Unit Dimension	2'–10 1/2"	3'–5 1/2"	4'–1 1/2"	4'–9 1/2"	5'–1 1/2"	5'–5 1/2"	6'–1"
		Rough Opening	2'–11 1/2"	3'–6 1/2"	4'–2 1/2"	4'–10 1/2"	5'–2 1/2"	5'–6 1/2"	6'–2"
		Call Size	1–5 Twin	1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin
1'–1 3/8"	1'–1 7/8"	1–0	MRACA1510-2SFTN	MRACA1810-2SFTN	MRACA2010-2SFTN	MRACA2410-2SFTN	MRACA2610-2SFTN	MRACA2810-2SFTN	MRACA3010-2SFTN
1'–4 3/4"	1'–5 1/4"	1–5	MRACA1515-2SFTN	MRACA1815-2SFTN	MRACA2015-2SFTN	MRACA2415-2SFTN	MRACA2615-2SFTN	MRACA2815-2SFTN	MRACA3015-2SFTN
1'–8 1/4"	1'–8 3/4"	1–8	MRACA1518-2SFTN	MRACA1818-2SFTN	MRACA2018-2SFTN	MRACA2418-2SFTN	MRACA2618-2SFTN	MRACA2818-2SFTN	MRACA3018-2SFTN
2'–0 1/4"	2'–0 3/4"	2–0	MRACA1520-2SFTN	MRACA1820-2SFTN	MRACA2020-2SFTN	MRACA2420-2SFTN	MRACA2620-2SFTN	MRACA2820-2SFTN	MRACA3020-2SFTN
2'–4 1/4"	2'–4 3/4"	2–4	MRACA15024-2SFTN	MRACA1824-2SFTN	MRACA2024-2SFTN	MRACA2424-2SFTN	MRACA2624-2SFTN	MRACA2824-2SFTN	MRACA3024-2SFTN



Casement –
Operating Extended Round Units

Standard Colonial Grille Pattern
Widths



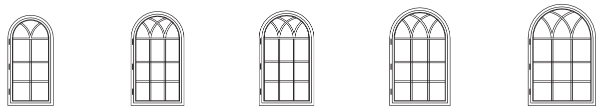
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"
Rough Opening	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"
Call Size	2–0	2–4	2–6	2–8	3–0
2–0	MRACA2020TR 3'–0 3/8" 3'–0 7/8"	MRACA2420TR 3'–2 3/8" 3'–2 7/8"	MRACA2620TR 3' – 3 3/8" 3' – 3 7/8"	MRACA2820TR 3'–4 3/8" 3'–4 7/8"	MRACA3020TR 3'–6 1/4" 3'–6 3/4"
2–4	MRACA2024TR 3'–4 3/8" 3'–4 7/8"	MRACA2424TR 3'–6 3/8" 3'–6 7/8"	MRACA2624TR 3' – 7 3/8" 3' – 7 7/8"	MRACA2824TR 3'–8 3/4" 3'–8 7/8"	MRACA3024TR 3'–10 1/4" 3'–10 3/4"
3–0	MRACA2030TR 4'–0 1/8" 4'–0 5/8"	MRACA2430TR 4'–2 1/8" 4'–2 5/8"	MRACA2630TR 4' – 3 1/4" 4' – 3 3/4"	MRACA2830TR 4'–4 1/8" 4'–4 5/8"	🟩 MRACA3030TR 4'–6" 4'–6 1/2"
3–5	MRACA2035TR 4'–5 5/8" 4'–6 1/8"	MRACA2435TR 4'–7 5/8" 4'–8 1/8"	MRACA2635TR 4' – 10 5/8" 4' – 11 1/8"	🟩 MRACA2835TR 4'–9 5/8" 4'–10 1/8"	🟩 MRACA3035TR 4'–11 1/2" 5'–0"
4–0	MRACA2040TR 5'–1 5/8" 5'–2 1/8"	MRACA2440TR 5'–3 5/8" 5'–4 1/8"	MRACA2640TR 5' – 4 5/8" 5' – 5 1/8"	🟩 MRACA2840TR 5'–5 5/8" 5'–6 1/8"	🟩 MRACA3040TR 5'–7 1/2" 5'–8"
4–5	MRACA2045TR 5'–5 1/8" 5'–5 5/8"	MRACA2445TR 5'–7 1/8" 5'–7 5/8"	MRACA2645TR 5' – 8 1/8" 5' – 8 5/8"	🟩 MRACA2845TR 5'–9 5/8" 5'–9 1/8"	🟩 MRACA3045TR 5'–11" 5'–11 1/2"
5–0	MRACA2050TR 6'–0 1/8" 6'–0 5/8"	MRACA2450TR 6'–2 1/8" 6'–2 5/8"	MRACA2650TR 6' – 3 1/8" 6' – 3 5/8"	🟩 MRACA2850TR 6'–4 1/8" 6'–4 5/8"	🟩 MRACA3050TR 6'–6" 6'–6 1/2"
5–5	MRACA2055TR 6'–5 1/8" 6'–5 5/8"	MRACA2455TR 6'–7 1/8" 6'–7 5/8"	MRACA2655TR 6' – 8 1/8" 6' – 8 5/8"	🟩 MRACA2855TR 6'–9 1/8" 6'–9 5/8"	🟩 MRACA3055TR 6'–11" 6'–11 1/2"
6–0	MRACA2060TR 7'–0 1/8" 7'–0 5/8"	MRACA2460TR 7'–2 1/8" 7'–2 5/8"	MRACA2660TR 7' – 3 1/8" 7' – 3 5/8"	🟩 MRACA2860TR 7'–4 1/8" 7'–4 5/8"	🟩 MRACA3060TR 7'–6" 7'–6 1/2"

NOTE:
Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.



Optional Gothic Grille Pattern

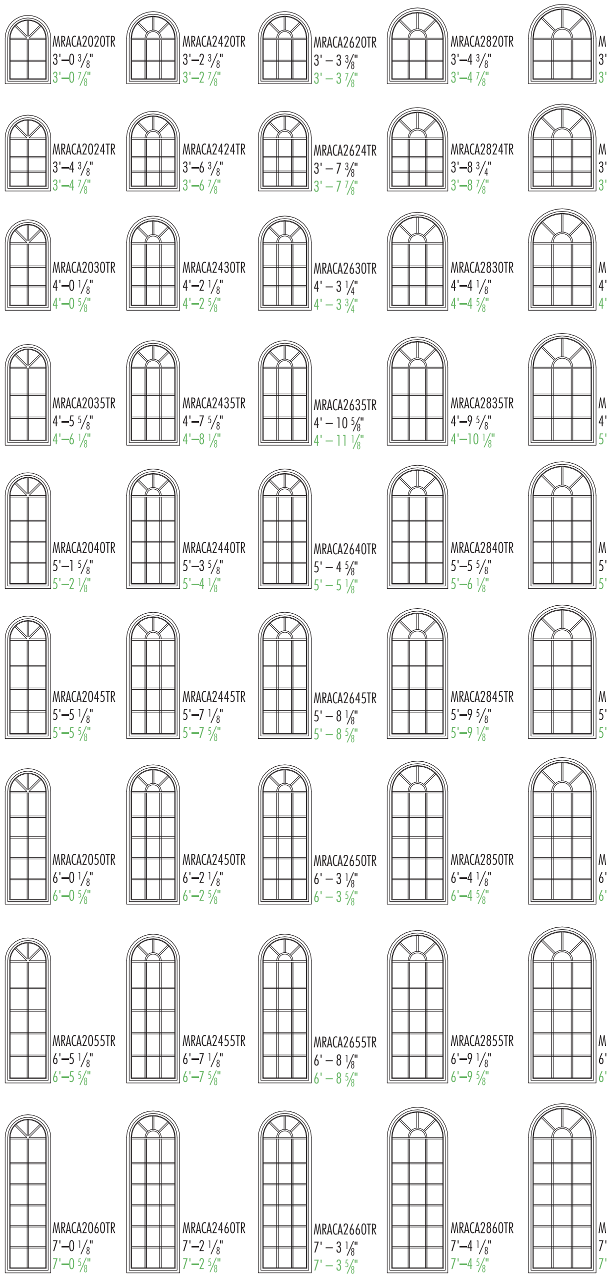
Standard Colonial Grille Pattern

Widths

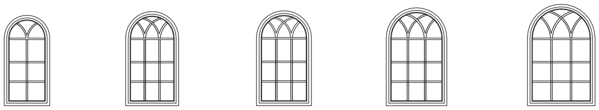
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows



Unit Dimension	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"
Rough Opening	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"
Call Size	2–0	2–4	2–6	2–8	3–0
2–0	MRACA2020TR 3'–0 3/8" 3'–0 7/8"	MRACA2420TR 3'–2 3/8" 3'–2 7/8"	MRACA2620TR 3' – 3 3/8" 3' – 3 7/8"	MRACA2820TR 3'–4 3/8" 3'–4 7/8"	MRACA3020TR 3'–6 1/4" 3'–6 3/4"
2–4	MRACA2024TR 3'–4 3/8" 3'–4 7/8"	MRACA2424TR 3'–6 3/8" 3'–6 7/8"	MRACA2624TR 3' – 7 3/8" 3' – 7 7/8"	MRACA2824TR 3'–8 3/4" 3'–8 7/8"	MRACA3024TR 3'–10 1/4" 3'–10 3/4"
3–0	MRACA2030TR 4'–0 1/8" 4'–0 5/8"	MRACA2430TR 4'–2 1/8" 4'–2 5/8"	MRACA2630TR 4' – 3 1/4" 4' – 3 3/4"	MRACA2830TR 4'–4 1/8" 4'–4 5/8"	MRACA3030TR 4'–6" 4'–6 1/2"
3–5	MRACA2035TR 4'–5 5/8" 4'–6 1/8"	MRACA2435TR 4'–7 5/8" 4'–8 1/8"	MRACA2635TR 4' – 10 5/8" 4' – 11 1/8"	MRACA2835TR 4'–9 5/8" 4'–10 1/8"	MRACA3035TR 4'–11 1/2" 5'–0"
4–0	MRACA2040TR 5'–1 5/8" 5'–2 1/8"	MRACA2440TR 5'–3 5/8" 5'–4 1/8"	MRACA2640TR 5' – 4 5/8" 5' – 5 1/8"	MRACA2840TR 5'–5 5/8" 5'–6 1/8"	MRACA3040TR 5'–7 1/2" 5'–8"
4–5	MRACA2045TR 5'–5 1/8" 5'–5 5/8"	MRACA2445TR 5'–7 1/8" 5'–7 5/8"	MRACA2645TR 5' – 8 1/8" 5' – 8 5/8"	MRACA2845TR 5'–9 5/8" 5'–9 1/8"	MRACA3045TR 5'–11" 5'–11 1/2"
5–0	MRACA2050TR 6'–0 1/8" 6'–0 5/8"	MRACA2450TR 6'–2 1/8" 6'–2 5/8"	MRACA2650TR 6' – 3 1/8" 6' – 3 5/8"	MRACA2850TR 6'–4 1/8" 6'–4 5/8"	MRACA3050TR 6'–6" 6'–6 1/2"
5–5	MRACA2055TR 6'–5 1/8" 6'–5 5/8"	MRACA2455TR 6'–7 1/8" 6'–7 5/8"	MRACA2655TR 6' – 8 1/8" 6' – 8 5/8"	MRACA2855TR 6'–9 1/8" 6'–9 5/8"	MRACA3055TR 6'–11" 6'–11 1/2"
6–0	MRACA2060TR 7'–0 1/8" 7'–0 5/8"	MRACA2460TR 7'–2 1/8" 7'–2 5/8"	MRACA2660TR 7' – 3 1/8" 7' – 3 5/8"	MRACA2860TR 7'–4 1/8" 7'–4 5/8"	MRACA3060TR 7'–6" 7'–6 1/2"

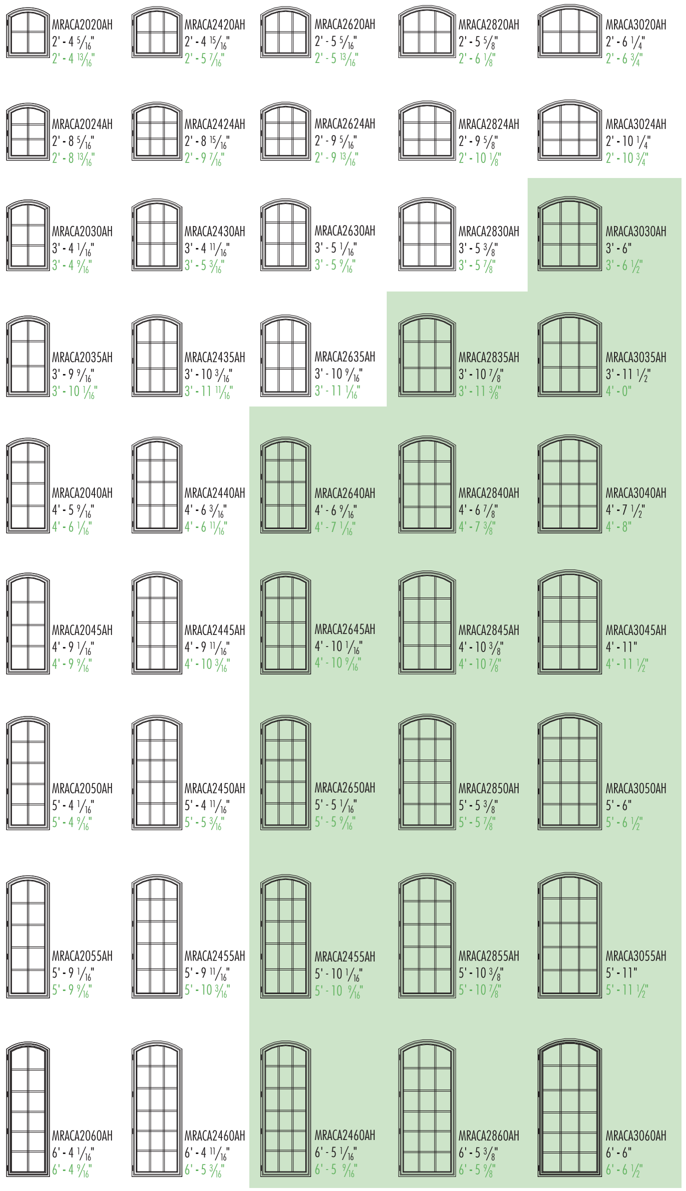


Optional Gothic Grille Pattern

Casement – Operating Extended Eyebrow Units

Standard Colonial Grille Pattern

Widths



Heights

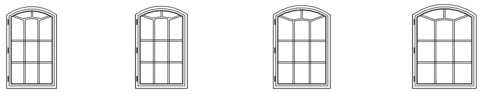
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"
Rough Opening	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"
Call Size	2–0	2–4	2–6	2–8	3–0
2–0	MRACA2020AH 2' - 4 5/16" 2' - 4 13/16"	MRACA2420AH 2' - 4 15/16" 2' - 5 7/16"	MRACA2620AH 2' - 5 5/16" 2' - 5 13/16"	MRACA2820AH 2' - 5 5/8" 2' - 6 1/8"	MRACA3020AH 2' - 6 1/4" 2' - 6 3/4"
2–4	MRACA2024AH 2' - 8 5/16" 2' - 8 13/16"	MRACA2424AH 2' - 8 15/16" 2' - 9 7/16"	MRACA2624AH 2' - 9 5/16" 2' - 9 13/16"	MRACA2824AH 2' - 9 5/8" 2' - 10 1/8"	MRACA3024AH 2' - 10 1/4" 2' - 10 3/4"
3–0	MRACA2030AH 3' - 4 1/16" 3' - 4 9/16"	MRACA2430AH 3' - 4 11/16" 3' - 5 3/16"	MRACA2630AH 3' - 5 1/16" 3' - 5 9/16"	MRACA2830AH 3' - 5 3/8" 3' - 5 7/8"	🟩 MRACA3030AH 3' - 6" 3' - 6 1/2"
3–5	MRACA2035AH 3' - 9 9/16" 3' - 10 1/16"	MRACA2435AH 3' - 10 3/16" 3' - 11 11/16"	MRACA2635AH 3' - 10 9/16" 3' - 11 1/16"	🟩 MRACA2835AH 3' - 10 7/8" 3' - 11 3/8"	🟩 MRACA3035AH 3' - 11 1/2" 4' - 0"
4–0	MRACA2040AH 4' - 5 9/16" 4' - 6 1/16"	MRACA2440AH 4' - 6 3/16" 4' - 6 11/16"	🟩 MRACA2640AH 4' - 6 9/16" 4' - 7 1/16"	🟩 MRACA2840AH 4' - 6 7/8" 4' - 7 3/8"	🟩 MRACA3040AH 4' - 7 1/2" 4' - 8"
4–5	MRACA2045AH 4' - 9 1/16" 4' - 9 9/16"	MRACA2445AH 4' - 9 11/16" 4' - 10 3/16"	🟩 MRACA2645AH 4' - 10 1/16" 4' - 10 9/16"	🟩 MRACA2845AH 4' - 10 3/8" 4' - 10 7/8"	🟩 MRACA3045AH 4' - 11" 4' - 11 1/2"
5–0	MRACA2050AH 5' - 4 1/16" 5' - 4 9/16"	MRACA2450AH 5' - 4 11/16" 5' - 5 3/16"	🟩 MRACA2650AH 5' - 5 1/16" 5' - 5 9/16"	🟩 MRACA2850AH 5' - 5 3/8" 5' - 5 7/8"	🟩 MRACA3050AH 5' - 6" 5' - 6 1/2"
5–5	MRACA2055AH 5' - 9 1/16" 5' - 9 9/16"	MRACA2455AH 5' - 9 11/16" 5' - 10 3/16"	🟩 MRACA2455AH 5' - 10 1/16" 5' - 10 9/16"	🟩 MRACA2855AH 5' - 10 3/8" 5' - 10 7/8"	🟩 MRACA3055AH 5' - 11" 5' - 11 1/2"
6–0	MRACA2060AH 6' - 4 1/16" 6' - 4 9/16"	MRACA2460AH 6' - 4 11/16" 6' - 5 3/16"	🟩 MRACA2460AH 6' - 5 1/16" 6' - 5 9/16"	🟩 MRACA2860AH 6' - 5 3/8" 6' - 5 9/8"	🟩 MRACA3060AH 6' - 6" 6' - 6 1/2"

NOTE:

Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.



Optional Renaissance Grille Pattern

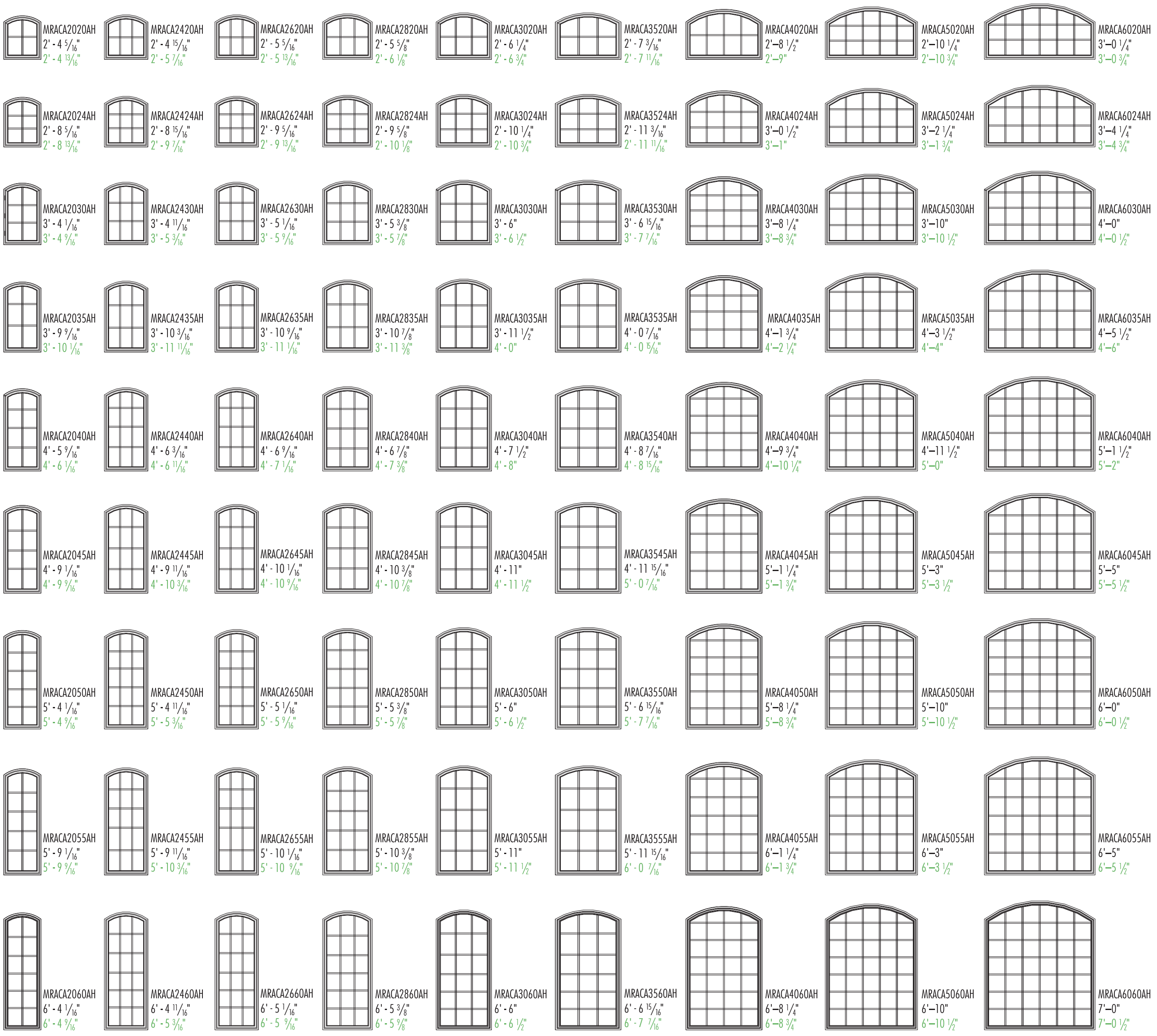
Standard Colonial Grille Pattern

Widths

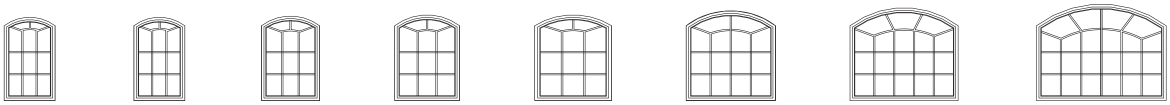
Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows



Unit Dimension	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"	3' – 5 1/2"	4' – 1 1/2"	5' – 0"	6' – 0"
Rough Opening	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"	3' – 6 1/2"	4' – 2 1/2"	5' – 1"	6' – 1"
Call Size	2–0	2–4	2–6	2–8	3–0	3–5	4–0	5–0	6–0
2–0	MRACA2020AH 2' - 4 5/16" 2' - 4 13/16"	MRACA2420AH 2' - 4 15/16" 2' - 5 7/16"	MRACA2620AH 2' - 5 5/16" 2' - 5 13/16"	MRACA2820AH 2' - 5 5/8" 2' - 6 1/8"	MRACA3020AH 2' - 6 1/4" 2' - 6 3/4"	MRACA3520AH 2' - 7 3/16" 2' - 7 11/16"	MRACA4020AH 2'–8 1/2" 2'–9"	MRACA5020AH 2'–10 1/4" 2'–10 3/4"	MRACA6020AH 3'–0 1/4" 3'–0 3/4"
2–4	MRACA2024AH 2' - 8 5/16" 2' - 8 13/16"	MRACA2424AH 2' - 8 15/16" 2' - 9 7/16"	MRACA2624AH 2' - 9 5/16" 2' - 9 13/16"	MRACA2824AH 2' - 9 5/8" 2' - 10 1/8"	MRACA3024AH 2' - 10 1/4" 2' - 10 3/4"	MRACA3524AH 2' - 11 3/16" 2' - 11 11/16"	MRACA4024AH 3'–0 1/2" 3'–1"	MRACA5024AH 3'–2 1/4" 3'–1 3/4"	MRACA6024AH 3'–4 1/4" 3'–4 3/4"
3–0	MRACA2030AH 3' - 4 1/16" 3' - 4 9/16"	MRACA2430AH 3' - 4 11/16" 3' - 5 3/16"	MRACA2630AH 3' - 5 1/16" 3' - 5 9/16"	MRACA2830AH 3' - 5 3/8" 3' - 5 7/8"	MRACA3030AH 3' - 6" 3' - 6 1/2"	MRACA3530AH 3' - 6 15/16" 3' - 7 7/16"	MRACA4030AH 3'–8 1/4" 3'–8 3/4"	MRACA5030AH 3'–10" 3'–10 1/2"	MRACA6030AH 4'–0" 4'–0 1/2"
3–5	MRACA2035AH 3' - 9 9/16" 3' - 10 1/16"	MRACA2435AH 3' - 10 3/16" 3' - 11 11/16"	MRACA2635AH 3' - 10 9/16" 3' - 11 1/16"	MRACA2835AH 3' - 10 7/8" 3' - 11 3/8"	MRACA3035AH 3' - 11 1/2" 4' - 0"	MRACA3535AH 4' - 0 7/16" 4' - 0 15/16"	MRACA4035AH 4'–1 3/4" 4'–2 1/4"	MRACA5035AH 4'–3 1/2" 4'–4"	MRACA6035AH 4'–5 1/2" 4'–6"
4–0	MRACA2040AH 4' - 5 9/16" 4' - 6 1/16"	MRACA2440AH 4' - 6 3/16" 4' - 6 11/16"	MRACA2640AH 4' - 6 9/16" 4' - 7 1/16"	MRACA2840AH 4' - 6 7/8" 4' - 7 3/8"	MRACA3040AH 4' - 7 1/2" 4' - 8"	MRACA3540AH 4' - 8 7/16" 4' - 8 15/16"	MRACA4040AH 4'–9 3/4" 4'–10 1/4"	MRACA5040AH 4'–11 1/2" 5'–0"	MRACA6040AH 5'–1 1/2" 5'–2"
4–5	MRACA2045AH 4' - 9 1/16" 4' - 9 9/16"	MRACA2445AH 4' - 9 11/16" 4' - 10 3/16"	MRACA2645AH 4' - 10 1/16" 4' - 10 9/16"	MRACA2845AH 4' - 10 3/8" 4' - 10 7/8"	MRACA3045AH 4' - 11" 4' - 11 1/2"	MRACA3545AH 4' - 11 15/16" 5' - 0 7/16"	MRACA4045AH 5'–1 1/4" 5'–1 3/4"	MRACA5045AH 5'–3" 5'–3 1/2"	MRACA6045AH 5'–5" 5'–5 1/2"
5–0	MRACA2050AH 5' - 4 1/16" 5' - 4 9/16"	MRACA2450AH 5' - 4 11/16" 5' - 5 3/16"	MRACA2650AH 5' - 5 1/16" 5' - 5 9/16"	MRACA2850AH 5' - 5 3/8" 5' - 5 7/8"	MRACA3050AH 5' - 6" 5' - 6 1/2"	MRACA3550AH 5' - 6 15/16" 5' - 7 7/16"	MRACA4050AH 5'–8 1/4" 5'–8 3/4"	MRACA5050AH 5'–10" 5'–10 1/2"	MRACA6050AH 6'–0" 6'–0 1/2"
5–5	MRACA2055AH 5' - 9 1/16" 5' - 9 9/16"	MRACA2455AH 5' - 9 11/16" 5' - 10 3/16"	MRACA2655AH 5' - 10 1/16" 5' - 10 9/16"	MRACA2855AH 5' - 10 3/8" 5' - 10 7/8"	MRACA3055AH 5' - 11" 5' - 11 1/2"	MRACA3555AH 5' - 11 15/16" 6' - 0 7/16"	MRACA4055AH 6'–1 1/4" 6'–1 3/4"	MRACA5055AH 6'–3" 6'–3 1/2"	MRACA6055AH 6'–5" 6'–5 1/2"
6–0	MRACA2060AH 6' - 4 1/16" 6' - 4 9/16"	MRACA2460AH 6' - 4 11/16" 6' - 5 3/16"	MRACA2660AH 6' - 5 1/16" 6' - 5 9/16"	MRACA2860AH 6' - 5 3/8" 6' - 5 9/8"	MRACA3060AH 6' - 6" 6' - 6 1/2"	MRACA3560AH 6' - 6 15/16" 6' - 7 7/16"	MRACA4060AH 6'–8 1/4" 6'–8 3/4"	MRACA5060AH 6'–10" 6'–10 1/2"	MRACA6060AH 7'–0" 7'–0 1/2"



Optional Renaissance Grille Pattern

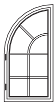
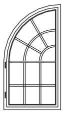
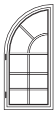
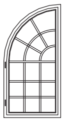
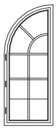
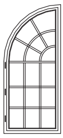
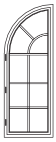
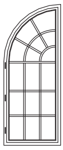
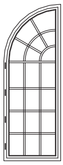
Casement – Operating Extended Quarter Round Units

Widths

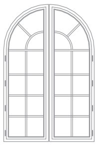
Heights

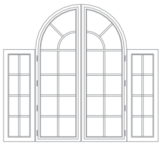
Unit height dimension is listed first under individual windows

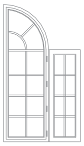
Rough Opening height dimension is listed second under individual windows

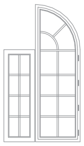
Unit Dimension	2' – 0 ¼"	2' – 4 ¼"
Rough Opening	2' – 1 ¼"	2' – 5 ¼"
Call Size	2–0	2–4
2–0	 MRACA2020QC 4' - 0 ½" 4' - 1"	 MRACA2420QC 4' - 4 ½" 4' - 5"
2–4	 MRACA2024QC 4' - 4 ½" 4' - 5"	 MRACA2424QC 4' - 8 ½" 4' - 9"
3–0	 MRACA2030QC 5' - 0 ¼" 5' - 0 ¾"	 MRACA2430QC 5' - 4 ¼" 5' - 4 ¾"
3–5	 MRACA2035QC 5' - 5 ¾" 5' - 6 ¼"	 MRACA2435QC 5' - 9 ¾" 5' - 10 ¼"
4–0	 MRACA2040QC 6' - 1 ¾" 6' - 2 ¼"	 MRACA2440QC 6' - 5 ¾" 6' - 6 ¼"

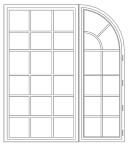
Mulling Options

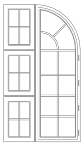












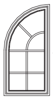
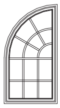
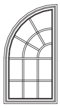
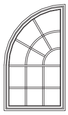
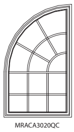
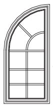
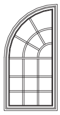
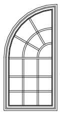
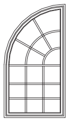
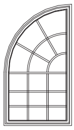
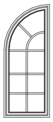
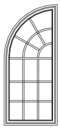
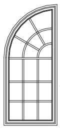
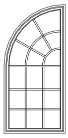
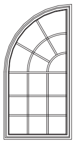
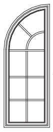
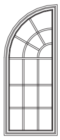
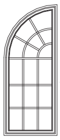
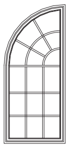
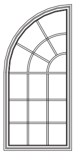
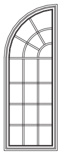
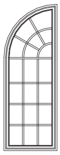
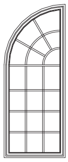
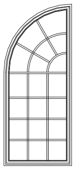
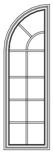
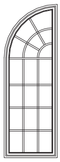
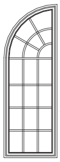
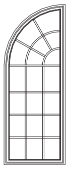
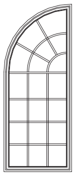
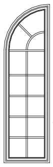
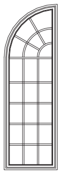
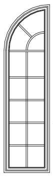
Casement – Fixed Units to Match Operating Extended Quarter Round Units

Widths

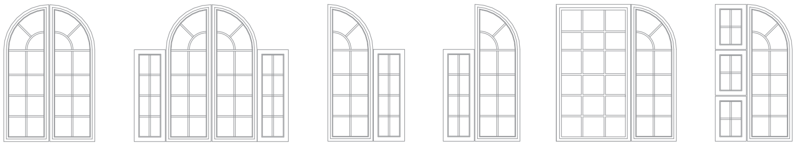
Heights

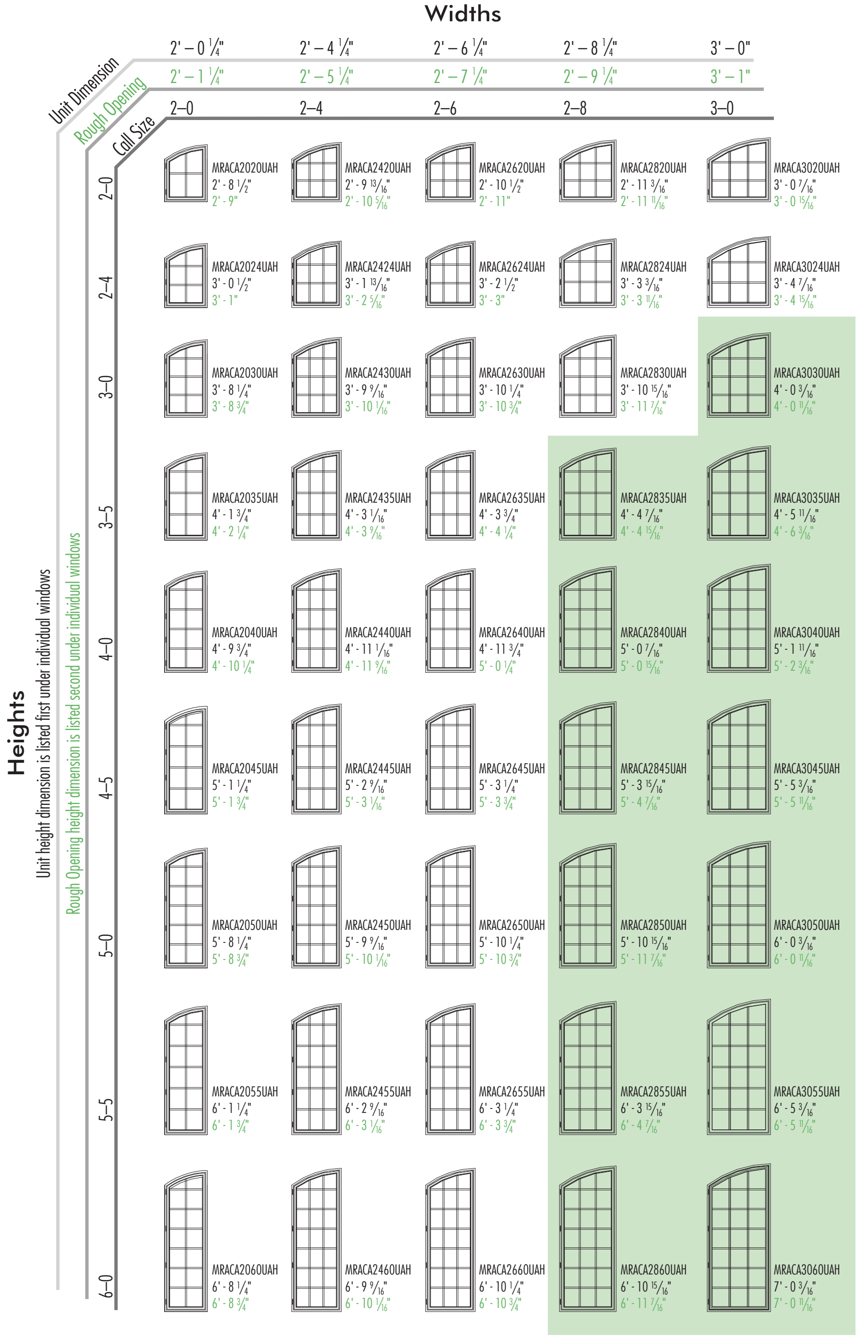
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"
Rough Opening	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"
Call Size	2–0	2–4	2–6	2–8	3–0
2–0	 MRACA2020QC 4' - 0 1/2" 4' - 1"	 MRACA2420QC 4' - 4 1/2" 4' - 5"	 MRACA2620QC 4' - 6 1/2" 4' - 7"	 MRACA2820QC 4' - 8 1/2" 4' - 8"	 MRACA3020UAH 5' - 0 1/4" 5' - 0 3/4" MRACA3020QC
2–4	 MRACA2024QC 4' - 4 1/2" 4' - 5"	 MRACA2424QC 4' - 8 1/2" 4' - 9"	 MRACA2624QC 4' - 10 1/2" 4' - 11"	 MRACA2824QC 5' - 0 1/2" 5' - 1"	 MRACA3024QC 5' - 4 1/4" 5' - 4 3/4"
3–0	 MRACA2030QC 5' - 0 1/4" 5' - 0 3/4"	 MRACA2430QC 5' - 4 1/4" 5' - 4 3/4"	 MRACA2630QC 5' - 6 1/4" 5' - 6 3/4"	 MRACA2830QC 5' - 8 1/4" 5' - 8 3/4"	 MRACA3030QC 6' - 0" 6' - 0 1/2"
3–5	 MRACA2035QC 5' - 5 3/4" 5' - 6 1/4"	 MRACA2435QC 5' - 9 3/4" 5' - 10 1/4"	 MRACA2635QC 5' - 11 3/4" 6' - 0 1/4"	 MRACA2835QC 6' - 1 3/4" 6' - 2 1/4"	 MRACA3035QC 6' - 5 1/2" 6' - 6"
4–0	 MRACA2040QC 6' - 1 3/4" 6' - 2 1/4"	 MRACA2440QC 6' - 5 3/4" 6' - 6 1/4"	 MRACA2640QC 6' - 7 3/4" 6' - 8 1/4"	 MRACA2840QC 6' - 9 3/4" 6' - 10 1/4"	 MRACA3040QC 7' - 1 1/2" 7' - 2"
4–5	 MRACA2045QC 6' - 5 1/4" 6' - 5 3/4"	 MRACA2445QC 6' - 9 1/4" 6' - 9 3/4"	 MRACA2645QC 6' - 11 1/4" 6' - 11 3/4"	 MRACA2845QC 7' - 1 1/4" 7' - 1 3/4"	 MRACA3045QC 7' - 5" 7' - 5 1/2"
5–0	 MRACA2050QC 7' - 0 1/4" 7' - 0 3/4"	 MRACA2450QC 7' - 4 1/4" 7' - 4 3/4"			
5–5	 MRACA2055QC 7' - 5 1/4" 7' - 5 3/4"				

Mulling Options





Widths

Heights

Unit height dimension is listed first under individual windows

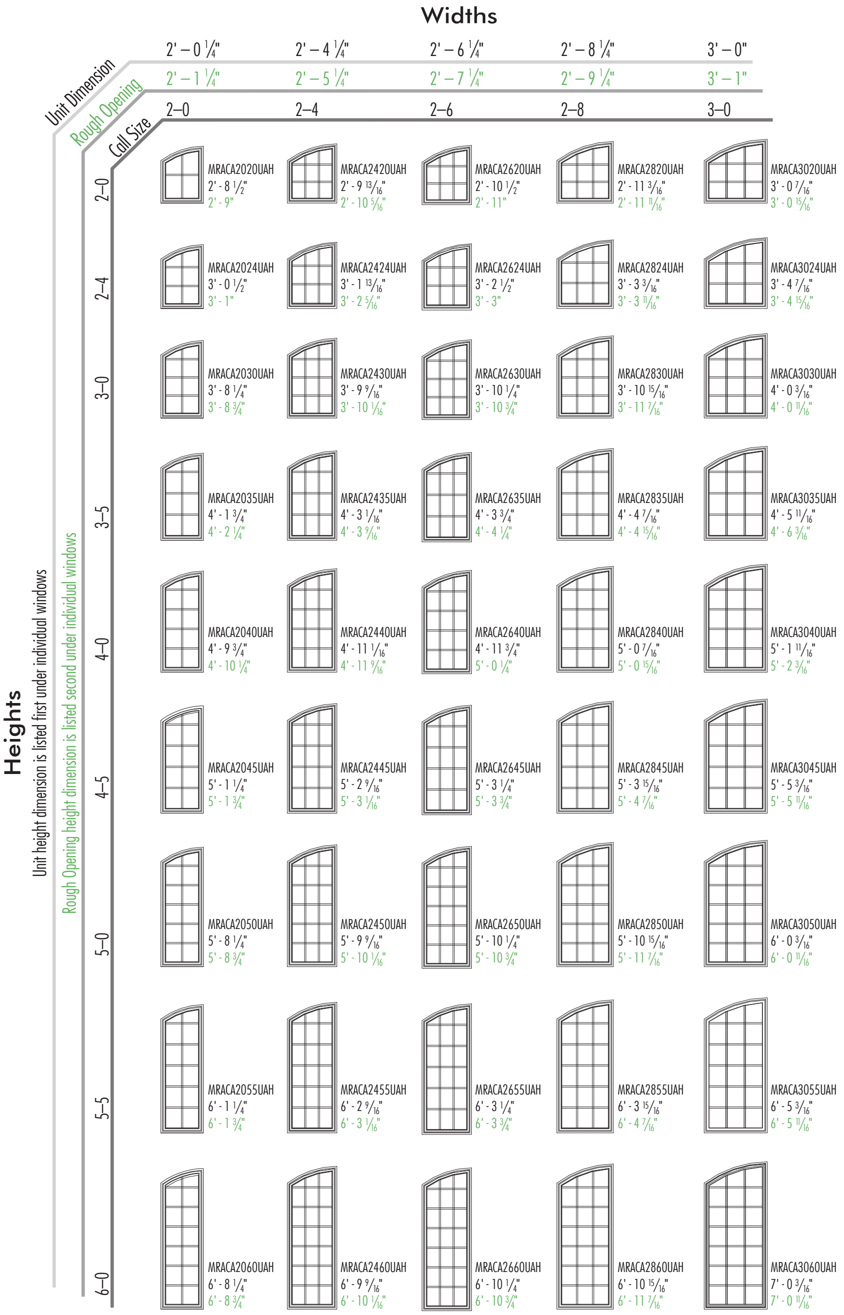
Rough Opening height dimension is listed second under individual windows

Unit Dimension Rough Opening Call Size	2' – 0 1/4" 2' – 1 1/4" 2–0	2' – 4 1/4" 2' – 5 1/4" 2–4	2' – 6 1/4" 2' – 7 1/4" 2–6	2' – 8 1/4" 2' – 9 1/4" 2–8	3' – 0" 3' – 1" 3–0
2–0	MRACA2020UAH 2' - 8 1/2" 2' - 9"	MRACA2420UAH 2' - 9 13/16" 2' - 10 5/16"	MRACA2620UAH 2' - 10 1/2" 2' - 11"	MRACA2820UAH 2' - 11 3/16" 2' - 11 11/16"	MRACA3020UAH 3' - 0 7/16" 3' - 0 15/16"
2–4	MRACA2024UAH 3' - 0 1/2" 3' - 1"	MRACA2424UAH 3' - 1 13/16" 3' - 2 5/16"	MRACA2624UAH 3' - 2 1/2" 3' - 3"	MRACA2824UAH 3' - 3 3/16" 3' - 3 11/16"	MRACA3024UAH 3' - 4 7/16" 3' - 4 15/16"
3–0	MRACA2030UAH 3' - 8 1/4" 3' - 8 3/4"	MRACA2430UAH 3' - 9 9/16" 3' - 10 1/16"	MRACA2630UAH 3' - 10 1/4" 3' - 10 3/4"	MRACA2830UAH 3' - 10 15/16" 3' - 11 7/16"	MRACA3030UAH 4' - 0 3/16" 4' - 0 11/16"
3–5	MRACA2035UAH 4' - 1 3/4" 4' - 2 1/4"	MRACA2435UAH 4' - 3 1/16" 4' - 3 9/16"	MRACA2635UAH 4' - 3 3/4" 4' - 4 1/4"	MRACA2835UAH 4' - 4 7/16" 4' - 4 15/16"	MRACA3035UAH 4' - 5 11/16" 4' - 6 3/16"
4–0	MRACA2040UAH 4' - 9 3/4" 4' - 10 1/4"	MRACA2440UAH 4' - 11 1/16" 4' - 11 9/16"	MRACA2640UAH 4' - 11 3/4" 5' - 0 1/4"	MRACA2840UAH 5' - 0 7/16" 5' - 0 15/16"	MRACA3040UAH 5' - 1 11/16" 5' - 2 3/16"
4–5	MRACA2045UAH 5' - 1 1/4" 5' - 1 3/4"	MRACA2445UAH 5' - 2 9/16" 5' - 3 1/16"	MRACA2645UAH 5' - 3 1/4" 5' - 3 3/4"	MRACA2845UAH 5' - 3 15/16" 5' - 4 7/16"	MRACA3045UAH 5' - 5 3/16" 5' - 5 11/16"
5–0	MRACA2050UAH 5' - 8 1/4" 5' - 8 3/4"	MRACA2450UAH 5' - 9 9/16" 5' - 10 1/16"	MRACA2650UAH 5' - 10 1/4" 5' - 10 3/4"	MRACA2850UAH 5' - 10 15/16" 5' - 11 7/16"	MRACA3050UAH 6' - 0 3/16" 6' - 0 11/16"
5–5	MRACA2055UAH 6' - 1 1/4" 6' - 1 3/4"	MRACA2455UAH 6' - 2 9/16" 6' - 3 1/16"	MRACA2655UAH 6' - 3 1/4" 6' - 3 3/4"	MRACA2855UAH 6' - 3 15/16" 6' - 4 7/16"	MRACA3055UAH 6' - 5 3/16" 6' - 5 11/16"
6–0	MRACA2060UAH 6' - 8 1/4" 6' - 8 3/4"	MRACA2460UAH 6' - 9 9/16" 6' - 10 1/16"	MRACA2660UAH 6' - 10 1/4" 6' - 10 3/4"	MRACA2860UAH 6' - 10 15/16" 6' - 11 7/16"	MRACA3060UAH 7' - 0 3/16" 7' - 0 11/16"

NOTE:

Shaded units satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Casement – Fixed Units to Match Operating Extended Quarter Eyebrow Units



Widths

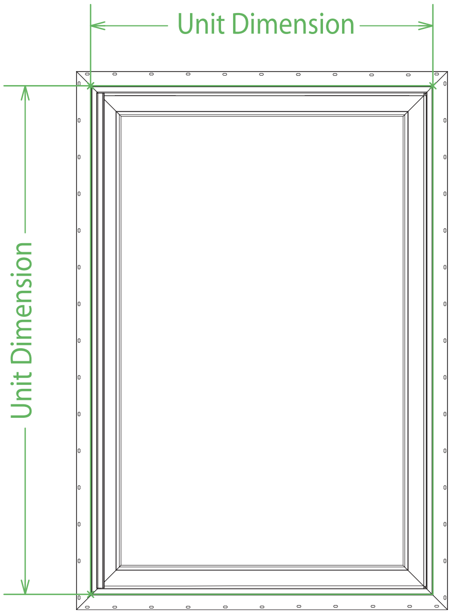
Heights

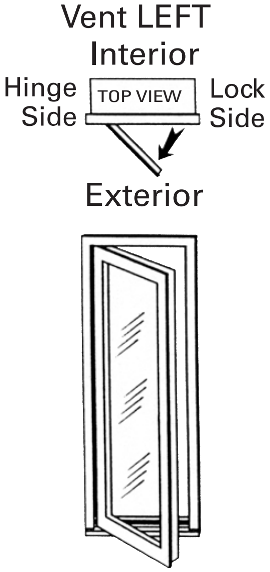
Unit height dimension is listed first under individual windows

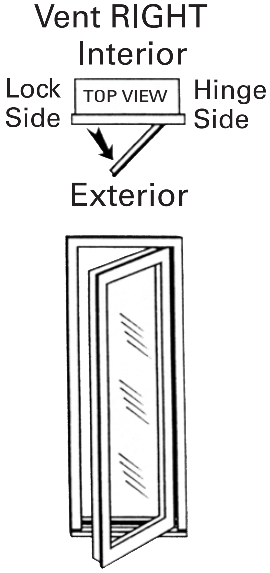
Rough Opening height dimension is listed second under individual windows

Unit Dimension	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"
Rough Opening	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"
Call Size	2–0	2–4	2–6	2–8	3–0
2–0	MRACA2020UAH 2' - 8 1/2" 2' - 9"	MRACA2420UAH 2' - 9 13/16" 2' - 10 5/16"	MRACA2620UAH 2' - 10 1/2" 2' - 11"	MRACA2820UAH 2' - 11 3/16" 2' - 11 11/16"	MRACA3020UAH 3' - 0 7/16" 3' - 0 15/16"
2–4	MRACA2024UAH 3' - 0 1/2" 3' - 1"	MRACA2424UAH 3' - 1 13/16" 3' - 2 5/16"	MRACA2624UAH 3' - 2 1/2" 3' - 3"	MRACA2824UAH 3' - 3 3/16" 3' - 3 11/16"	MRACA3024UAH 3' - 4 7/16" 3' - 4 15/16"
3–0	MRACA2030UAH 3' - 8 1/4" 3' - 8 3/4"	MRACA2430UAH 3' - 9 9/16" 3' - 10 1/16"	MRACA2630UAH 3' - 10 1/4" 3' - 10 3/4"	MRACA2830UAH 3' - 10 15/16" 3' - 11 7/16"	MRACA3030UAH 4' - 0 3/16" 4' - 0 11/16"
3–5	MRACA2035UAH 4' - 1 3/4" 4' - 2 1/4"	MRACA2435UAH 4' - 3 1/16" 4' - 3 9/16"	MRACA2635UAH 4' - 3 3/4" 4' - 4 1/4"	MRACA2835UAH 4' - 4 7/16" 4' - 4 15/16"	MRACA3035UAH 4' - 5 11/16" 4' - 6 3/16"
4–0	MRACA2040UAH 4' - 9 3/4" 4' - 10 1/4"	MRACA2440UAH 4' - 11 1/16" 4' - 11 9/16"	MRACA2640UAH 4' - 11 3/4" 5' - 0 1/4"	MRACA2840UAH 5' - 0 7/16" 5' - 0 15/16"	MRACA3040UAH 5' - 1 11/16" 5' - 2 3/16"
4–5	MRACA2045UAH 5' - 1 1/4" 5' - 1 3/4"	MRACA2445UAH 5' - 2 9/16" 5' - 3 1/16"	MRACA2645UAH 5' - 3 1/4" 5' - 3 3/4"	MRACA2845UAH 5' - 3 15/16" 5' - 4 7/16"	MRACA3045UAH 5' - 5 3/16" 5' - 5 11/16"
5–0	MRACA2050UAH 5' - 8 1/4" 5' - 8 3/4"	MRACA2450UAH 5' - 9 9/16" 5' - 10 1/16"	MRACA2650UAH 5' - 10 1/4" 5' - 10 3/4"	MRACA2850UAH 5' - 10 15/16" 5' - 11 7/16"	MRACA3050UAH 6' - 0 3/16" 6' - 0 11/16"
5–5	MRACA2055UAH 6' - 1 1/4" 6' - 1 3/4"	MRACA2455UAH 6' - 2 9/16" 6' - 3 1/16"	MRACA2655UAH 6' - 3 1/4" 6' - 3 3/4"	MRACA2855UAH 6' - 3 15/16" 6' - 4 7/16"	MRACA3055UAH 6' - 5 3/16" 6' - 5 11/16"
6–0	MRACA2060UAH 6' - 8 1/4" 6' - 8 3/4"	MRACA2460UAH 6' - 9 9/16" 6' - 10 1/16"	MRACA2660UAH 6' - 10 1/4" 6' - 10 3/4"	MRACA2860UAH 6' - 10 15/16" 6' - 11 7/16"	MRACA3060UAH 7' - 0 3/16" 7' - 0 11/16"

Casement – Actual Unit Dimensions







To calculate unit dimension on multiple units, add 1" per mull together with actual unit dimension.

Operating Units, WIDTH

CALL SIZE (WIDTH)	1-5	1-8	2-0	2-4	2-6	2-8	3-0
SINGLE	16-3/4	20-1/4	24-1/4	28-1/4	30-1/4	32-1/4	36
TWIN	34-1/2	41-1/2	49-1/2	57-1/2	61-1/2	65-1/2	73
TRIPLE	52-1/4	62-3/4	74-3/4	86-3/4	92-3/4	98-3/4	110
FOUR WIDE	70	84	100	116	124	N/A	N/A
FIVE WIDE	87-3/4	105-1/4	N/A	N/A	N/A	N/A	N/A

Operating & Fixed Units, HEIGHT

CALL SIZE (HEIGHT)	HEIGHT IN INCHES
2-0	24-1/4
2-4	28-1/4
3-0	36
3-5	41-1/2
4-0	49-1/2
4-5	53
5-0	60
5-5	65
6-0	72

Fixed Units, WIDTH

CALL SIZE (WIDTH)	1-0	1-5	1-8	2-0	2-4	2-6
SINGLE	13-3/8	16-3/4	20-1/4	24-1/4	28-1/4	30-1/4
TWIN	27-3/4	34-1/2	41-1/2	49-1/2	57-1/2	61-1/2
TRIPLE	42-1/8	52-1/4	62-3/4	74-3/4	86-3/4	92-3/4

Fixed Units, WIDTH

CALL SIZE (WIDTH)	2-8	3-0	4-0	5-0	6-0
SINGLE	32-1/4	36	49-1/2	60	72
TWIN	65-1/2	73	100	N/A	N/A
TRIPLE	98-3/4	110	N/A	N/A	N/A

Transom Units, HEIGHT

CALL SIZE (HEIGHT)	HEIGHT IN INCHES
0-10	11-3/8
1-0	13-3/8
1-2	15-3/8
1-6	17-3/8
2-0	24-1/4
2-4	28-1/4

Casement – Net Clear & Daylight Opening Dimensions

Operating Units

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRACA1520	9.000	19.719	1.23	1.4
24	9.000	23.719	1.48	1.7
30	9.000	31.469	1.97	2.3
35	9.000	36.969	2.31	2.8
40	9.000	44.969	2.81	3.4
45	9.000	48.469	3.03	3.6
50	9.000	55.469	3.47	4.2
55	9.000	60.469	3.78	4.6
60	9.000	67.469	4.22	5.1
MRACA1820	12.500	19.719	1.71	1.9
24	12.500	23.719	2.06	2.3
30	12.500	31.469	2.73	3.1
35	12.500	36.969	3.12	3.6
40	12.500	44.969	3.82	4.4
45	12.500	48.469	4.21	4.8
50	12.500	55.469	4.82	5.5
55	12.500	60.469	5.25	6.0
60	12.500	67.469	5.86	6.7
MRACA2020	16.500	19.719	2.26	2.4
24	16.500	23.719	2.72	2.9
30	16.500	31.469	3.61	3.9
35	16.500	36.969	4.12	4.6
40	16.500	44.969	5.04	5.6
45	16.500	48.469	5.55	6.1
50	16.500	55.469	6.36	7.0
55	16.500	60.469	6.93	7.6
60	16.500	67.469	7.73	8.5
MRACA2420	20.500	19.719	2.81	2.9
24	20.500	23.719	3.38	3.5
30	20.500	31.469	4.48	4.7
35	20.500	36.969	5.12	5.6
40	20.500	44.969	6.26	6.9
45	20.500	48.469	6.90	7.4
50	20.500	55.469	7.90	8.5
55	20.500	60.469	8.61	9.3
60	20.500	67.469	9.60	10.4
MRACA2620	22.500	19.719	3.08	3.2
24	22.500	23.719	3.71	3.8
30	22.500	31.469	4.92	5.2
35	22.500	36.969	5.78	6.1
40	22.500	44.969	7.03	7.5
45	22.500	48.469	7.57	8.1
50	22.500	55.469	8.67	9.3
55	22.500	60.469	9.45	10.1
60	22.500	67.469	10.54	11.3
MRACA2820	24.500	19.719	3.35	3.4
24	24.500	23.719	4.04	4.2
30	24.500	31.469	5.35	5.6
35	24.500	35.969	6.12	6.6
40	24.500	43.969	7.48	8.1
45	24.500	48.469	8.25	8.7
50	24.500	55.469	9.44	10.0
55	24.500	60.469	10.29	10.9
60	24.500	67.469	11.48	12.2
MRACA3020	28.250	19.719	3.87	3.9
24	28.250	23.719	4.65	4.7
30	28.250	31.469	6.17	6.4
35	28.250	35.969	6.12	7.5
40	28.250	43.969	7.48	9.2
45	28.250	48.469	8.25	10.0
50	28.250	55.469	9.44	11.4
55	28.250	60.469	10.29	12.5
60	28.250	67.469	11.48	14.0

NOTE:
Units listed in **green** satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Fixed Units

Call Size	Daylight Opening S.F.
MRACA1020P	1.0
24	1.2
30	1.6
35	1.9
40	2.3
45	2.5
50	2.9
55	3.2
60	3.5
MRACA1520P	1.4
24	1.7
30	2.3
35	2.8
40	3.4
45	3.6
50	4.2
55	4.6
60	5.1
MRACA1820P	1.9
24	2.3
30	3.1
35	3.6
40	4.4
45	4.8
50	5.5
55	6.0
60	6.7
MRACA2020P	2.4
24	2.9
30	3.9
35	4.6
40	5.6
45	6.1
50	7.0
55	7.6
60	8.5
MRACA2420P	2.9
24	3.5
30	4.7
35	5.6
40	6.9
45	7.4
50	8.5
55	9.3
60	10.4
MRACA2620P	3.2
24	3.8
30	5.2
35	6.1
40	7.5
45	8.1
50	9.3
55	10.1
60	11.3

Call Size	Daylight Opening S.F.
MRACA2820P	3.4
24	4.2
30	5.6
35	6.6
40	8.1
45	8.7
50	10.0
55	10.9
60	12.2
MRACA3020P	3.9
24	4.7
30	6.4
35	7.5
40	9.2
45	10.0
50	11.4
55	12.5
60	14.0
MRACA3520P	4.6
24	5.6
30	7.5
35	8.9
40	10.9
45	11.8
50	13.5
55	14.8
60	16.5
MRACA4020P	5.6
24	6.9
30	9.2
35	10.9
40	13.3
45	14.4
50	16.5
55	18.0
60	20.2
MRACA5020P	7.0
24	8.5
30	11.4
35	13.5
40	16.5
45	17.8
50	20.5
55	22.4
60	25.0
MRACA6020P	8.5
24	10.4
30	14.0
35	16.5
40	20.2
45	21.8
50	25.0
55	27.3
60	30.5

Casement – Net Clear & Daylight Opening Dimensions

Operating Extended Round Casement Units

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRACA2020TR	15.000	21.658	2.26	4.6
24	15.000	25.658	2.67	5.2
30	15.000	33.408	3.48	6.2
35	15.000	38.908	4.05	6.9
40	15.000	46.908	4.89	7.9
45	15.000	50.408	5.25	8.3
50	15.000	57.408	5.98	9.2
55	15.000	62.408	6.50	9.9
60	15.000	69.408	7.23	10.8
MRACA2420TR	19.000	21.658	2.86	6.1
24	19.000	25.658	3.39	6.8
30	19.000	33.408	4.41	8.0
35	19.000	38.908	5.13	8.8
40	19.000	46.908	6.19	10.1
45	19.000	50.408	6.65	10.6
50	19.000	57.408	7. 57	11.7
55	19.000	62.408	8.23	12.5
60	19.000	69.408	9.19	13.6
MRACA2620TR	21.000	21.658	3.16	6.9
24	21.000	25.658	3.74	7.6
30	21.000	33.408	4.87	8.9
35	21.000	38.908	5.67	9.8
40	21.000	46.908	6.84	11.2
45	21.000	50.408	7.35	11.8
50	21.000	57.408	8.37	13.0
55	21.000	62.408	9.10	13.8
60	21.000	69.408	10.12	15.0
MRACA2820TR	23.000	21.658	3.46	7.8
24	23.000	25.658	4.10	8.5
30	23.000	33.408	5.34	10.0
35	23.000	38.908	6.21	11.0
40	23.000	46.908	7.49	12.5
45	23.000	50.408	8.05	13.1
50	23.000	57.408	9.17	14.4
55	23.000	62.408	9.97	15.3
60	23.000	69.408	11.09	16.6
MRACA3020TR	26.750	21.658	4.02	9.5
24	26.750	25.658	4.77	10.4
30	26.750	33.408	6.21	12.0
35	26.750	38.408	7.23	13.1
40	26.750	46.908	8.71	14.8
45	26.750	50.408	9.36	15.6
50	26.750	57.408	10.66	17.0
55	26.750	62.408	11.59	18.1
60	26.750	69.408	12.89	19.6

Fixed Units to Match Operating Extended Round Casement Units

Call Size	Daylight Opening S.F.
MRACA2020TR	4.6
24	5.2
30	6.2
35	6.9
40	7.9
45	8.3
50	9.2
55	9.9
60	10.8
MRACA2420TR	6.1
24	6.8
30	8.0
35	8.8
40	10.1
45	10.6
50	11.7
55	12.5
60	13.6
MRACA2620TR	6.9
24	7.6
30	8.9
35	9.8
40	11.2
45	11.8
50	12.9
55	13.8
60	15.0
MRACA2820TR	7.8
24	8.5
30	10.0
35	11.0
40	12.5
45	13.1
50	14.4
55	15.3
60	16.6
MRACA3020TR	9.5
24	10.4
30	12.0
35	13.1
40	14.8
45	15.6
50	17.0
55	18.1
60	19.6

NOTE: Units listed in **green** satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Operating Extended Eyebrow Casement Units

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRACA2020AH	15.000	21.658	2.26	2.8
24	15.000	25.658	2.67	3.3
30	15.000	33.408	3.48	4.3
35	15.000	38.908	4.05	5.0
40	15.000	46.908	4.89	6.1
45	15.000	50.408	5.25	6.5
50	15.000	57.408	5.98	7.4
55	15.000	62.408	6.50	8.1
60	15.000	69.408	7.23	9.0
MRACA2420AH	19.000	21.658	2.86	3.5
24	19.000	25.658	3.39	4.1
30	19.000	33.408	4.41	5.3
35	19.000	38.908	5.13	6.2
40	19.000	46.908	6.19	7.4
45	19.000	50.408	6.65	8.0
50	19.000	57.408	7.57	9.1
55	19.000	62.408	8.23	9.9
60	19.000	69.408	9.16	11.0
MRACA2620AH	21.000	21.658	3.16	3.8
24	21.000	25.658	3.74	4.5
30	21.000	33.408	4.87	5.8
35	21.000	38.908	5.67	6.7
40	21.000	46.908	6.84	8.1
45	21.000	50.408	7.35	8.7
50	21.000	57.408	8.37	9.8
55	21.000	62.408	9.10	10.7
60	21.000	69.408	10.12	11.9
MRACA2820AH	23.000	21.658	3.46	4.2
24	23.000	25.658	4.10	4.9
30	23.000	33.408	5.34	6.4
35	23.000	38.908	6.21	7.4
40	23.000	46.908	7.49	8.8
45	23.000	50.408	8.05	9.5
50	23.000	57.408	9.17	10.8
55	23.000	62.408	9.97	11.7
60	23.000	69.408	11.09	13.0
MRACA3020AH	26.750	21.658	4.02	4.8
24	26.750	25.658	4.77	5.7
30	26.750	33.408	6.21	7.3
35	26.750	38.408	7.23	8.5
40	26.750	46.908	8.71	10.2
45	26.750	50.408	9.36	10.9
50	26.750	57.408	10.66	12.4
55	26.750	62.408	11.59	13.4
60	26.750	69.408	12.89	14.9

Fixed Units to Match Operating Extended Eyebrow Casement Units

Call Size	Daylight Opening S.F.
MRACA2020AH	2.8
24	3.3
30	4.3
35	5.0
40	6.1
45	6.5
50	7.4
55	8.1
60	9.0
MRACA2420AH	3.5
24	4.1
30	5.3
35	6.2
40	7.4
45	8.0
50	9.1
55	9.9
60	11.0
MRACA2620AH	3.8
24	4.5
30	5.8
35	6.7
40	8.1
45	8.7
50	9.8
55	10.7
60	11.9
MRACA2820AH	4.2
24	4.9
30	6.4
35	7.4
40	8.8
45	9.5
50	10.8
55	11.7
60	13.0
MRACA3020AH	4.8
24	5.7
30	7.3
35	8.5
40	10.2
45	10.9
50	12.4
55	13.4
60	14.9

Call Size	Daylight Opening S.F.
MRACA3520AH	2.8
24	6.9
30	8.8
35	10.2
40	12.2
45	13.0
50	14.8
55	16.0
60	17.8
MRACA4020AH	7.5
24	8.7
30	11.0
35	12.7
40	15.1
45	16.2
50	18.3
55	19.9
60	22.0
MRACA5020AH	9.7
24	11.2
30	14.1
35	16.2
40	19.2
45	20.5
50	23.2
55	25.1
60	27.7
MRACA6020AH	12.4
24	14.3
30	17.9
35	20.4
40	24.1
45	25.7
50	28.9
55	31.2
60	34.4

NOTE: Units listed in **green** satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Operating Extended Quarter Round Casement Units

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRACA2020QC	15.000	21.658	2.26	4.8
24	15.000	25.658	2.67	5.3
30	15.000	33.408	3.48	6.3
35	15.000	38.908	4.05	7.1
40	15.000	46.908	4.89	8.1
MRACA2420QC	19.000	21.658	2.86	6.3
24	19.000	25.658	3.39	6.9
30	19.000	33.408	4.41	8.1
35	19.000	38.908	5.13	9.0
40	19.000	46.908	6.19	10.2

Fixed Units to Match Operating Extended Quarter Round Casement Units

Call Size	Daylight Opening S.F.
MRACA2020QC	4.8
24	5.3
30	6.3
35	7.1
40	8.1
45	8.5
50	9.4
55	10.1
MRACA2420QC	6.3
24	6.9
30	8.1
35	9.0
40	10.2
45	10.8
50	11.9
MRACA2620QC	7.0
24	7.7
30	9.0
35	9.9
40	11.3
45	11.9
MRACA2820QC	7.9
24	8.6
30	10.0
35	11.0
40	12.5
45	13.2
MRACA3020QC	9.5
24	10.3
30	11.9
35	13.1
40	14.8
45	15.5

Operating Extended Quarter Eyebrow Casement Units

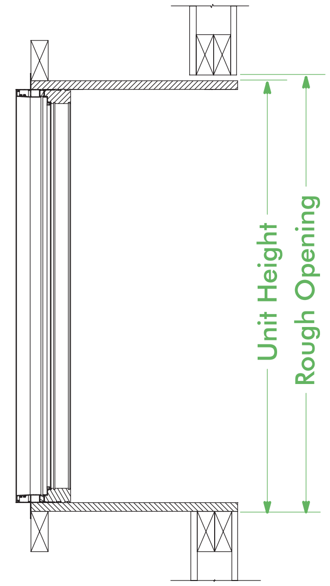
Call Size	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRACA2020UAH	15.000	21.658	2.26	3.1
24	15.000	25.658	2.67	3.6
30	15.000	33.408	3.48	4.6
35	15.000	38.908	4.05	5.3
40	15.000	46.908	4.89	6.4
45	15.000	50.408	5.25	6.8
50	15.000	57.408	5.98	7.7
55	15.000	62.408	6.50	8.4
60	15.000	69.408	7.23	9.3
MRACA2420UAH	19.000	21.658	2.86	3.9
24	19.000	25.658	3.39	4.5
30	19.000	33.408	4.41	5.8
35	19.000	38.908	5.13	6.6
40	19.000	46.908	6.19	7.9
45	19.000	50.408	6.65	8.4
50	19.000	57.408	7.57	9.5
55	19.000	62.408	8.23	10.3
60	19.000	69.408	9.16	11.4
MRACA2620UAH	21.000	21.658	3.16	4.3
24	21.000	25.658	3.74	5.0
30	21.000	33.408	4.87	6.3
35	21.000	38.908	5.67	7.2
40	21.000	46.908	6.84	8.6
45	21.000	50.408	7.35	9.2
50	21.000	57.408	8.37	10.4
55	21.000	62.408	9.10	11.2
60	21.000	69.408	10.12	12.4
MRACA2820UAH	23.000	21.658	3.46	4.8
24	23.000	25.658	4.10	5.5
30	23.000	33.408	5.34	6.9
35	23.000	38.908	6.21	8.0
40	23.000	46.908	7.49	9.4
45	23.000	50.408	8.05	10.1
50	23.000	57.408	9.17	11.4
55	23.000	62.408	9.97	12.3
60	23.000	69.408	11.09	13.6
MRACA3020UAH	26.750	21.658	4.02	5.6
24	26.750	25.658	4.77	6.5
30	26.750	33.408	6.21	8.1
35	26.750	38.408	7.23	9.2
40	26.750	46.908	8.71	10.9
45	26.750	50.408	9.36	11.7
50	26.750	57.408	10.66	13.1
55	26.750	62.408	11.59	14.2
60	26.750	69.408	12.89	15.7

Fixed Units to Match Operating Extended Quarter Eyebrow Casement Units

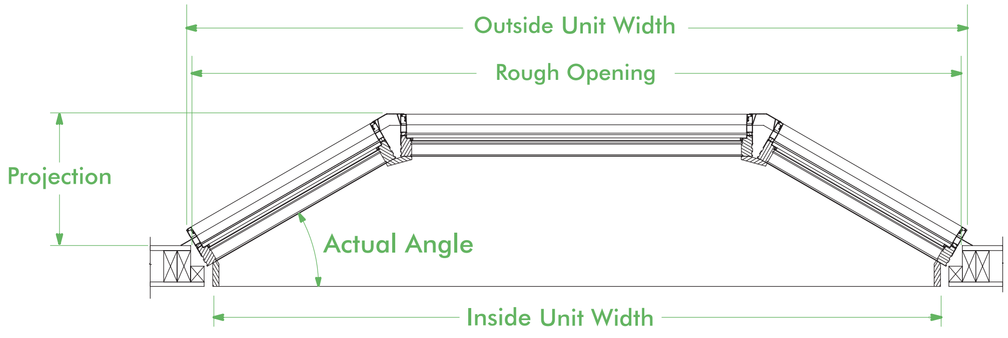
Call Size	Daylight Opening S.F.
MRACA2020UAH	3.1
24	3.6
30	4.6
35	5.3
40	6.4
45	6.8
50	7.7
55	8.4
60	9.3
MRACA2420UAH	3.9
24	4.5
30	5.8
35	6.6
40	7.9
45	8.4
50	9.5
55	10.3
60	11.4
MRACA2620UAH	4.3
24	5.0
30	6.3
35	7.2
40	8.6
45	9.2
50	10.4
55	11.2
60	12.4
MRACA2820UAH	4.8
24	5.5
30	6.9
35	8.0
40	9.4
45	10.1
50	11.4
55	12.3
60	13.6
MRACA3020UAH	5.6
24	6.5
30	8.1
35	9.2
40	10.9
45	11.7
50	13.1
55	14.2
60	15.7

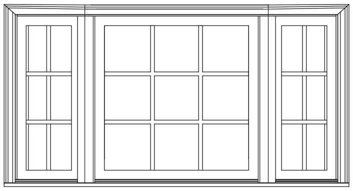
NOTE: Units listed in **green** satisfy ICC egress requirements. Check with your local code official to confirm egress requirements in your area.

Casement – 30° Bay Window w/ Operating Flankers

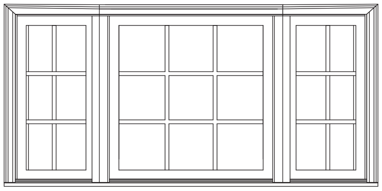


Note: Projections include 4-9/16" wall.

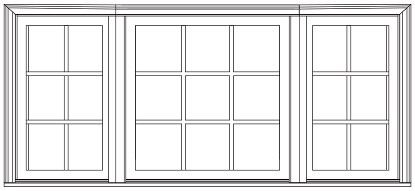




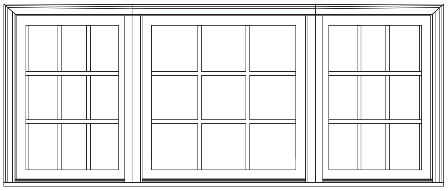
30° Angle Bay with 1-5 Flankers



30° Angle Bay with 1-8 Flankers



30° Angle Bay with 2-0 Flankers

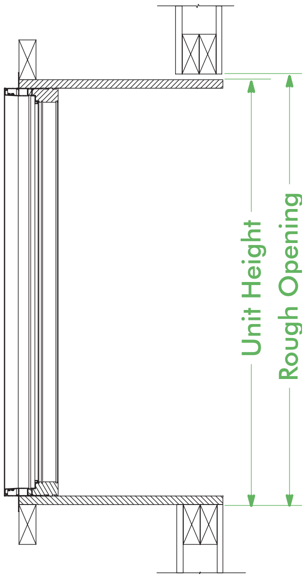


30° Angle Bay with 2-4 Flankers

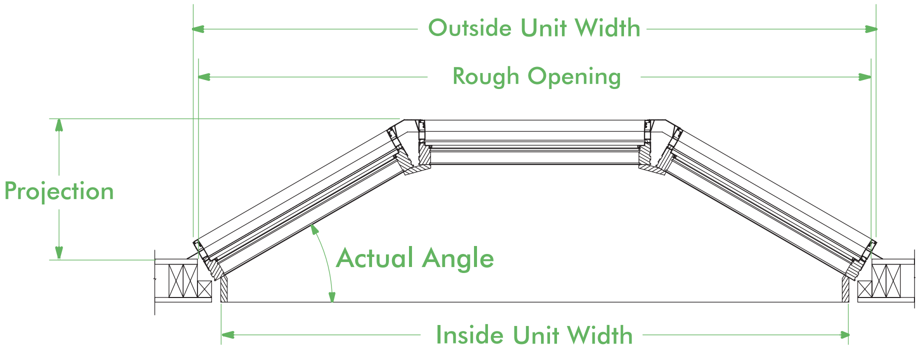
WIDTHS					
Call Size	Outside Unit Width	Rough Opening	Inside Unit Width	Projection	Actual Angle
MRACA1530xx-30	70-11/16	69-3/4	64-13/16	11	30°
MRACA1535xx-30	76-3/16	75-1/4	70-5/16	11	30°
MRACA1540xx-30	84-3/16	83-1/4	78-5/16	11	30°
MRACA1550xx-30	94-11/16	93-3/4	88-13/16	11	30°
MRACA1560xx-30	106-11/16	105-3/4	100-13/16	11	30°
MRACA1830xx-30	76-3/4	75-13/16	70-7/8	12-11/16	30°
MRACA1835xx-30	82-1/4	81-5/16	76-3/8	12-11/16	30°
MRACA1840xx-30	90-1/4	89-5/16	84-3/8	12-11/16	30°
MRACA1850xx-30	100-3/4	99-13/16	94-7/8	12-11/16	30°
MRACA1860xx-30	112-3/4	111-13/16	106-7/8	12-11/16	30°
MRACA2030xx-30	83-11/16	82-3/4	77-13/16	14-11/16	30°
MRACA2035xx-30	89-3/16	88-1/4	83-5/16	14-11/16	30°
MRACA2040xx-30	97-3/16	96-1/4	91-5/16	14-11/16	30°
MRACA2050xx-30	107-11/16	106-3/4	101-13/16	14-11/16	30°
MRACA2060xx-30	119-11/16	118-3/4	113-13/16	14-11/16	30°
MRACA2430xx-30	90-5/8	89-11/16	84-3/4	16-11/16	30°
MRACA2435xx-30	96-1/8	95-3/16	90-1/4	16-11/16	30°
MRACA2440xx-30	104-1/8	103-3/16	98-1/4	16-11/16	30°

HEIGHTS		
Call Size	Bay Unit	Rough Opening
3/0	37-1/2	38
3/5	43	43-1/2
4/0	51	51-1/2
4/5	54-1/2	55
5/0	61-1/2	62
5/5	66-1/2	67
6/0	73-1/2	74

Casement – 30° Bay Window w/Three Operating Units



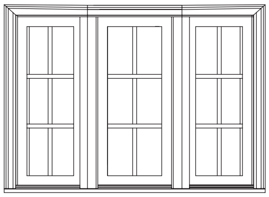
Note: Projections include 4-9/16" wall.



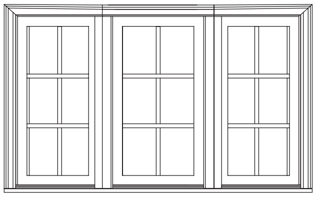
WIDTHS					
Call Size	Outside Unit Width	Rough Opening	Inside Unit Width	Projection	Actual Angle
MRACA15xx/3-30	51-7/16	50-1/2	45-9/16	11	30°
MRACA18xx/3-30	61	60-1/16	55-1/8	12-11/16	30°
MRACA20xx/3-30	71-15/16	71	66-1/16	14-11/16	30°
MRACA24xx/3-30	82-7/8	81-15/16	77	16-11/16	30°
MRACA28xx/3-30	93-13/16	92-7/8	87-15/16	18-11/16	30°
MRACA15xx/4-30	69-3/16	68-1/4	63-5/16	11	30°
MRACA18xx/4-30	82-1/4	81-5/16	76-3/8	12-11/16	30°
MRACA20xx/4-30	97-3/16	96-1/4	91-5/16	14-11/16	30°
MRACA24xx/4-30	112-1/8	111-3/16	106-1/4	16-11/16	30°
MRACA15xx/5-30	86-15/16	86	81-1/16	11	30°
MRACA18xx/5-30	103-1/2	102-9/16	97-5/8	12-11/16	30°
MRACA20xx/5-30	122-7/16	121-1/2	116-9/16	14-11/16	30°

HEIGHTS		
Call Size	Bay Unit	Rough Opening
3/0	37-1/2	38
3/5	43	43-1/2
4/0	51	51-1/2
4/5	54-1/2	55
5/0	61-1/2	62
5/5	66-1/2	67
6/0	73-1/2	74

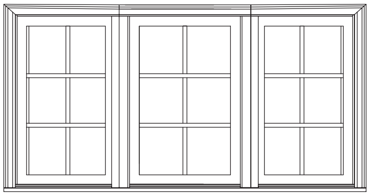
30° Angle Bay
1-5 Flankers with 1-5 Center



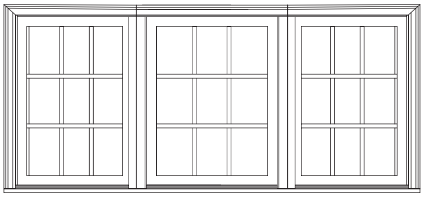
30° Angle Bay
1-8 Flankers with 1-8 Center



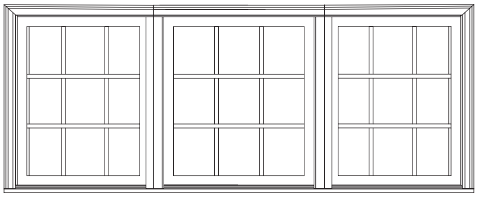
30° Angle Bay
2-0 Flankers with 2-0 Center



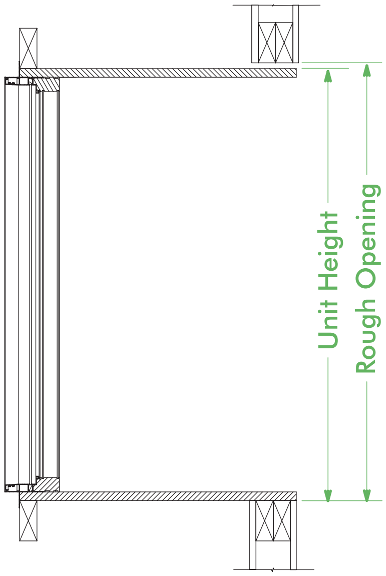
30° Angle Bay
2-4 Flankers with 2-4 Center



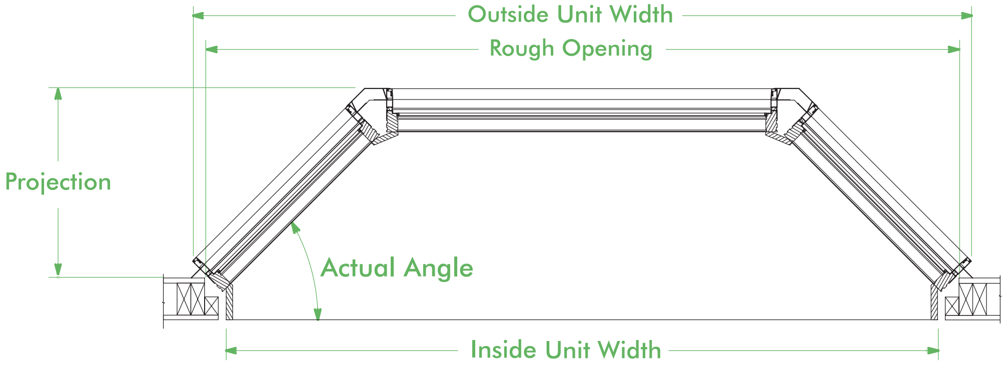
30° Angle Bay
2-8 Flankers with 2-8 Center



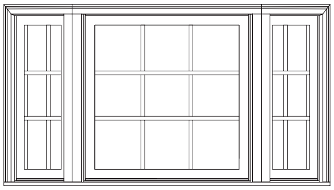
Casement – 45° Bay Window w/ Operating Flankers



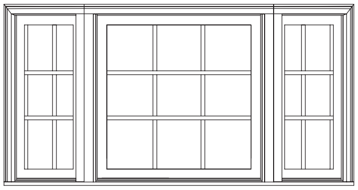
Note: Projections include 4-9/16" wall.



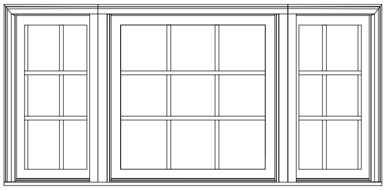
45° Angle Bay with 1-5 Flankers



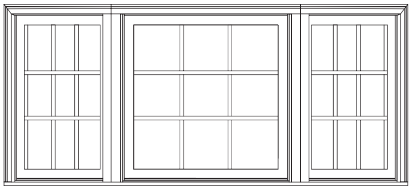
45° Angle Bay with 1-8 Flankers



45° Angle Bay with 2-0 Flankers



45° Angle Bay with 2-4 Flankers



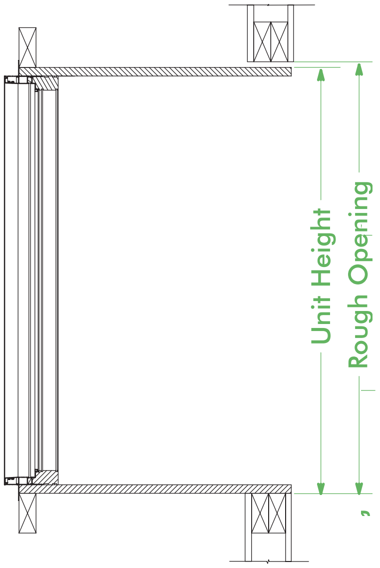
WIDTHS

Call Size	Outside Unit Width	Rough Opening	Inside Unit Width	Projection	Actual Angle
MRACA1530xx-45	67-13/16	65-3/16	60-7/16	15-7/16	45°
MRACA1535xx-45	73-5/16	70--11/16	65-15/16	15-7/16	45°
MRACA1540xx-45	81-5/16	78--11/16	73-15/16	15-7/16	45°
MRACA1550xx-45	91-13/16	89-3/16	84-7/16	15-7/16	45°
MRACA1560xx-45	103-13/16	101-3/16	96-7/16	15-7/16	45°
MRACA1830xx-45	72-3/4	70-1/8	65-3/8	17-7/8	45°
MRACA1835xx-45	78-1/4	75-5/8	70-7/8	17-7/8	45°
MRACA1840xx-45	86-1/4	83-5/8	78-7/8	17-7/8	45°
MRACA1850xx-45	96-3/4	94-1/8	89-3/8	17-7/8	45°
MRACA1860xx-45	108-3/4	106-1/8	101-3/8	17-7/8	45°
MRACA2030xx-45	78-3/8	75-3/4	71	20-3/4	45°
MRACA2035xx-45	83-7/8	81-1/4	76-1/2	20-3/4	45°
MRACA2040xx-45	91-7/8	89-1/4	84-1/2	20-3/4	45°
MRACA2050xx-45	102-3/8	99-3/4	95	20-3/4	45°
MRACA2060xx-45	114-3/8	111-3/4	107	20-3/4	45°
MRACA2430xx-45	84-1/16	81-7/16	76-11/16	23-9/16	45°
MRACA2435xx-45	89-9/16	86-15/16	82-3/16	23-9/16	45°
MRACA2440xx-45	97-9/16	94-15/16	90-3/16	23-9/16	45°
MRACA2450xx-45	108-1/16	105-7/16	100-11/16	23-9/16	45°
MRACA2460xx-45	120-1/16	117-7/16	112-11/16	23-9/16	45°

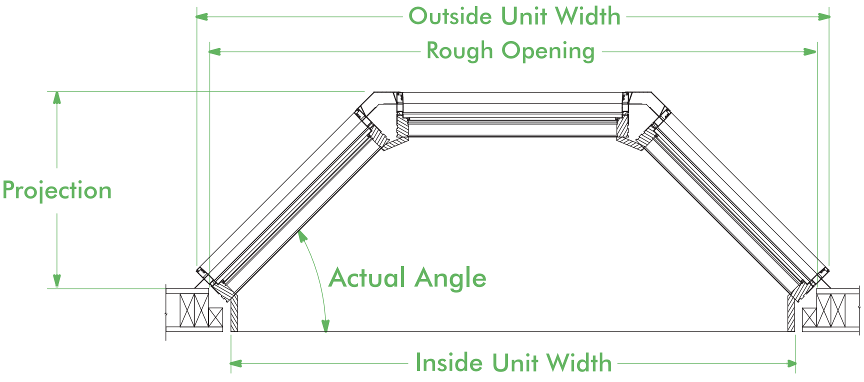
HEIGHTS

Call Size	Bay Unit	Rough Opening
3/0	37-1/2	38
3/5	43	43-1/2
4/0	51	51-1/2
4/5	54-1/2	55
5/0	61-1/2	62
5/5	66-1/2	67
6/0	73-1/2	74

Casement – 45° Bay Window w/Three Operating Units

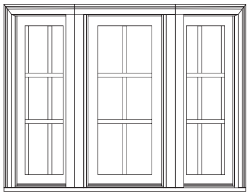


Note: Projections include 4-9/16" wall.

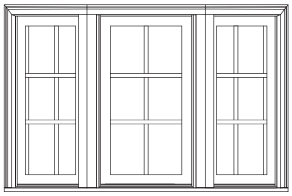


WIDTHS					
Call Size	Outside Unit Width	Rough Opening	Inside Unit Width	**Projection**	Actual Angle
MRACA15xx/3-45	48-9/16	45-15/16	41-3/16	15-7/16	45°
MRACA18xx/3-45	57	54-3/8	49-5/8	17-7/8	45°
MRACA20xx/3-45	66-5/8	64	59-1/4	20-3/4	45°
MRACA24xx/3-45	76-5/16	73-11/16	68-15/16	23-9/16	45°
MRACA26xx/3-45	81-1/8	78-1/2	73-3/4	24-15/16	45°
MRACA28xx/3-45	85-15/16	83-5/16	78-9/16	26-3/8	45°
MRACA15xx/4-45	66-1/4	63-5/8	58-7/8	15-7/16	45°
MRACA18xx/4-45	78-1/4	75-5/8	70-7/8	17-7/8	45°
MRACA20xx/4-45	91-7/8	89-1/4	84-1/2	20-3/4	45°
MRACA24xx/4-45	105-9/16	102-15/16	98-3/16	23-9/16	45°
MRACA26xx/4-45	112-3/8	109-3/4	105	24-15/16	45°
MRACA28xx/4-45	119-3/16	116-9/16	111-13/16	26-3/8	45°
MRACA15xx/5-45	84-1/16	81-7/16	76-11/16	15-7/16	45°
MRACA18xx/5-45	99-1/2	96-7/8	92-1/8	17-7/8	45°
MRACA20xx/5-45	117-1/8	114-1/2	109-3/4	20-3/4	45°

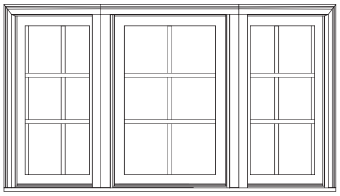
45° Angle Bay
1-5 Flankers with 1-5 Center



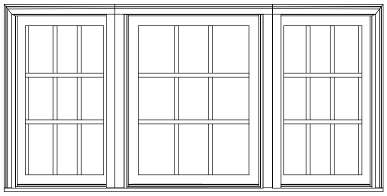
45° Angle Bay
1-8 Flankers with 1-8 Center



45° Angle Bay
2-0 Flankers with 2-0 Center

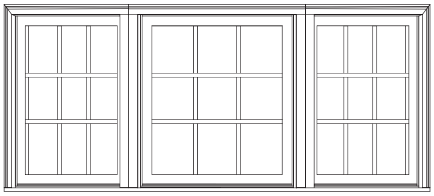


45° Angle Bay
2-4 Flankers with 2-4 Center

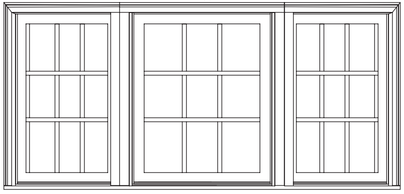


HEIGHTS		
Call Size	Bay Unit	Rough Opening
3/0	37-1/2	38
3/5	43	43-1/2
4/0	51	51-1/2
4/5	54-1/2	55
5/0	61-1/2	62
5/5	66-1/2	67
6/0	73-1/2	74

45° Angle Bay
2-8 Flankers with 2-8 Center

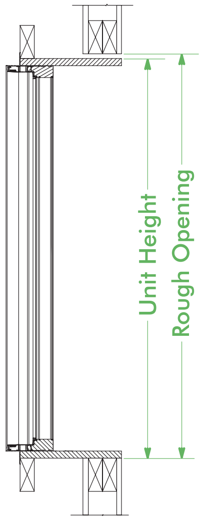


45° Angle Bay
2-6 Flankers with 2-6 Center

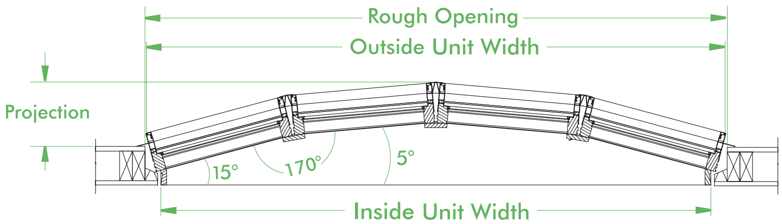


Casement – 4 Wide Bow Window Details

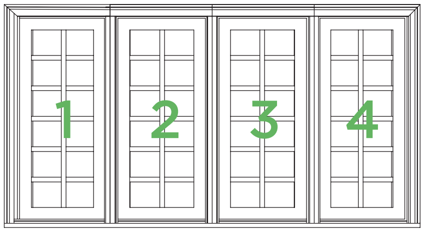
HEIGHTS		
Call Size	Bay Unit	Rough Opening
3/0	37-1/2	38
3/5	43	43-1/2
4/0	51	51-1/2
4/5	54-1/2	55
5/0	61-1/2	62
5/5	66-1/2	67
6/0	73-1/2	74



Note: Projections do not include 4-9/16" wall.

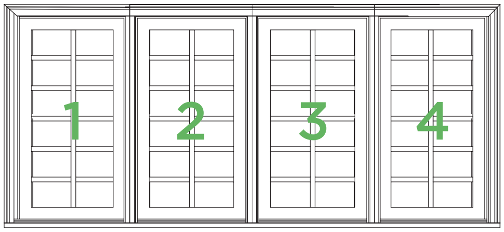


1-5 Bow - 4 Wide



WIDTHS				
Call Size	Outside Unit Dim.	Rough Opening	**Projection**	Inside Unit Dim.
MRACA15xx/4BOW	68-11/16	68-7/8	7-5/8	65-1/8

1-8 Bow - 4 Wide

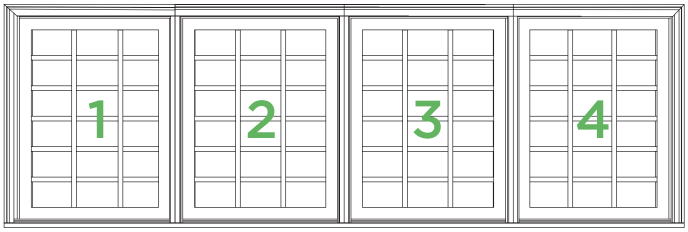


WIDTHS				
Call Size	Outside Unit Dim.	Rough Opening	**Projection**	Inside Unit Dim.
MRACA18xx/4BOW	82-3/8	82-9/16	8-13/16	78-13/16

2-0 Bow - 4 Wide

WIDTHS				
Call Size	Outside Unit Dim.	Rough Opening	**Projection**	Inside Unit Dim.
MRACA20xx/4BOW	99-1/16	99-1/4	10-1/4	95-1/2

2-4 Bow - 4 Wide

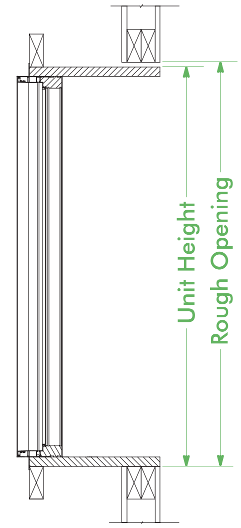


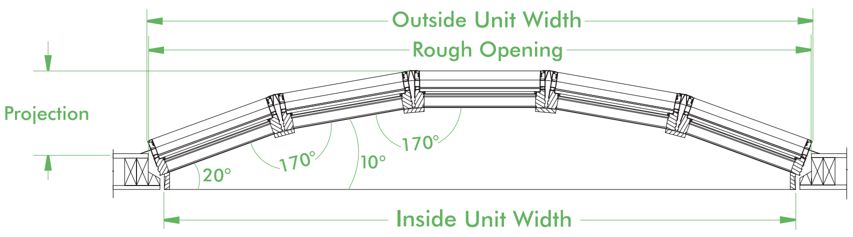
WIDTHS				
Call Size	Outside Unit Dim.	Rough Opening	**Projection**	Inside Unit Dim.
MRACA24xx/4BOW	113-13/16	114	11-9/16	110-1/4

Note: Windows 1 and 4 are operating, windows 2 and 3 are fixed. All four windows operating is optional, upcharge applies.

Casement – 5 Wide Bow Window Details

Note: Projections do not include 4-9/16" wall.





HEIGHTS		
Call Size	Bay Unit	Rough Opening
3/0	37-1/2	38
3/5	43	43-1/2
4/0	51	51-1/2
4/5	54-1/2	55
5/0	61-1/2	62
5/5	66-1/2	67
6/0	73-1/2	74

Note: Windows 1 & 5 are operating, windows 2, 3 & 4 are fixed. All five windows operating is optional, upcharge applies.

1-5 Bow - 5 Wide

WIDTHS				
Call Size	Outside Unit Dim.	Rough Opening	Projection	Inside Unit Dim.
MRACA15xx/5BOW	85-1/16	84-15/16	10-11/16	80-13/16

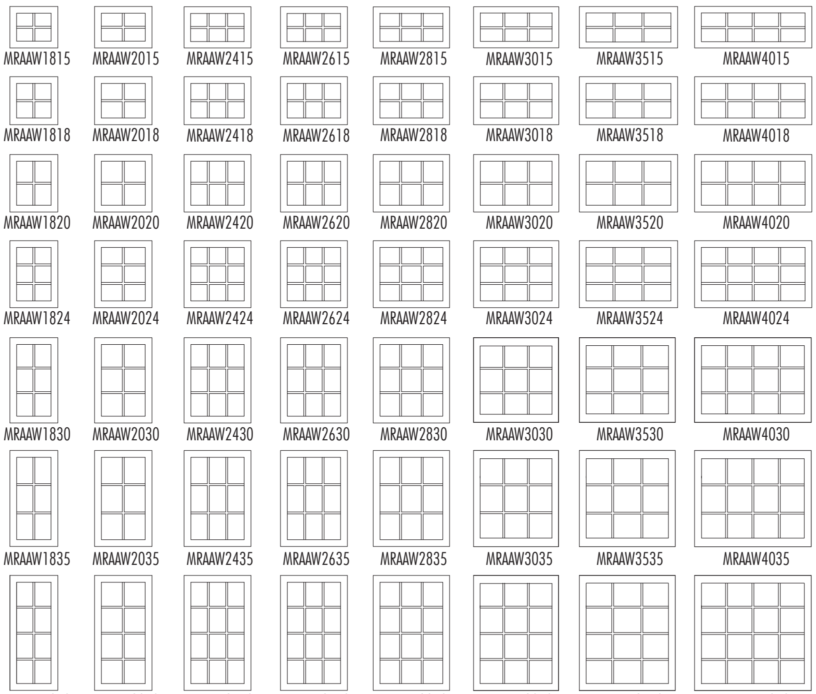
1-8 Bow - 5 Wide

WIDTHS				
Call Size	Outside Unit Dim.	Rough Opening	Projection	Inside Unit Dim.
MRACA18xx/5BOW	102-1/16	101-15/16	12-7/16	97 13/16

2-0 Bow - 5 Wide

WIDTHS				
Call Size	Outside Unit Dim.	Rough Opening	Projection	Inside Unit Dim.
MRACA20xx/5BOW	121-7/16	121-5/16	14-1/2	117-3/16

Widths

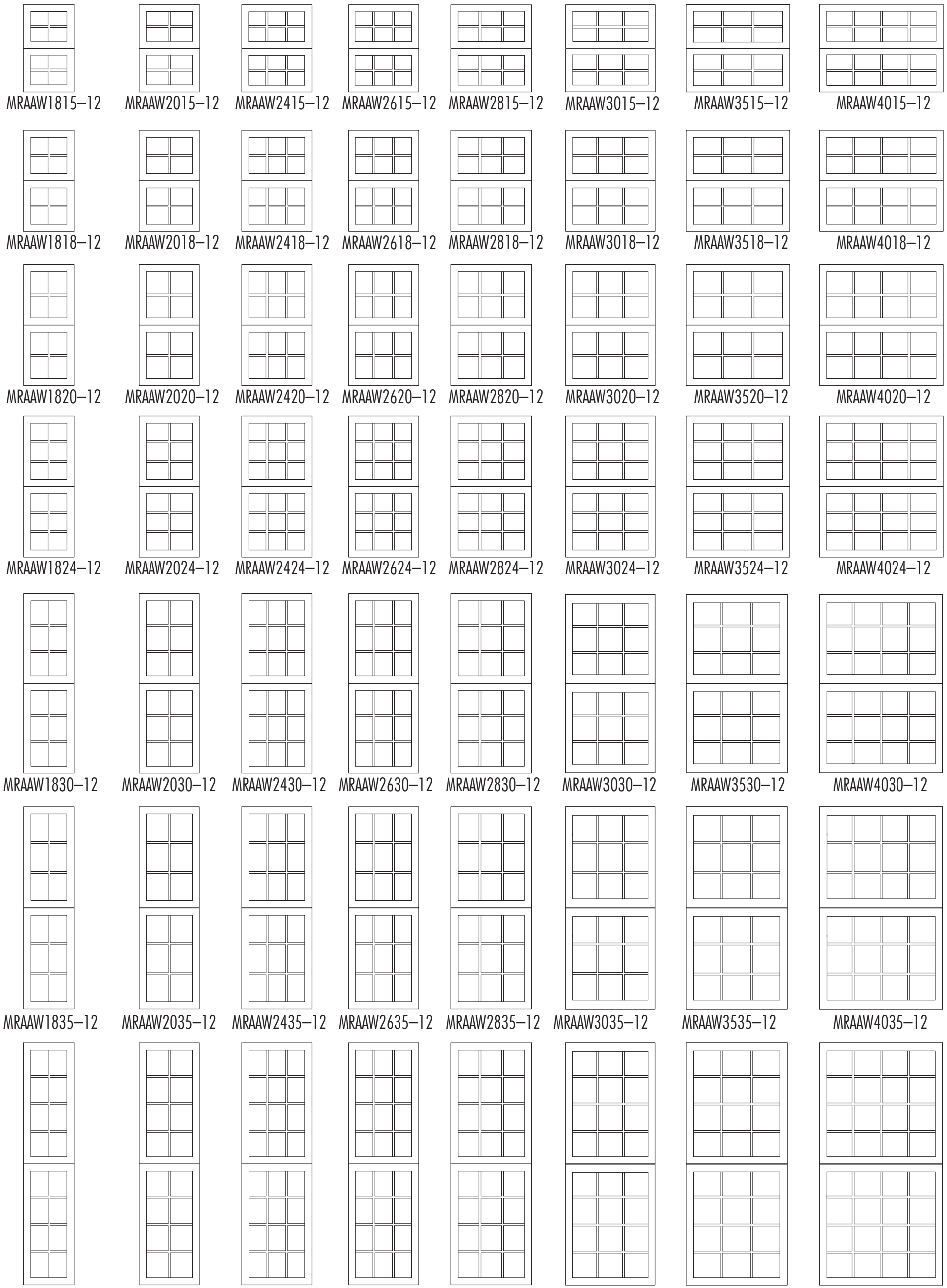


Heights: Unit Dimension	Rough Opening	Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–5	4–0
Unit Dimension			1' – 8 1/4"	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"	3' – 5 1/2"	4' – 1 1/2"
	Rough Opening		1' – 9 1/4"	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"	3' – 6 1/2"	4' – 2 1/2"
1' – 5 1/4"	1' – 5 3/4"	1–5	MRAAW1815	MRAAW2015	MRAAW2415	MRAAW2615	MRAAW2815	MRAAW3015	MRAAW3515	MRAAW4015
1' – 8 1/4"	1' – 8 3/4"	1–8	MRAAW1818	MRAAW2018	MRAAW2418	MRAAW2618	MRAAW2818	MRAAW3018	MRAAW3518	MRAAW4018
2' – 0 1/4"	2' – 0 3/4"	2–0	MRAAW1820	MRAAW2020	MRAAW2420	MRAAW2620	MRAAW2820	MRAAW3020	MRAAW3520	MRAAW4020
2' – 4 1/4"	2' – 4 3/4"	2–4	MRAAW1824	MRAAW2024	MRAAW2424	MRAAW2624	MRAAW2824	MRAAW3024	MRAAW3524	MRAAW4024
3' – 0"	3' – 0 1/2"	3–0	MRAAW1830	MRAAW2030	MRAAW2430	MRAAW2630	MRAAW2830	MRAAW3030	MRAAW3530	MRAAW4030
3' – 5 1/2"	3' – 6"	3–5	MRAAW1835	MRAAW2035	MRAAW2435	MRAAW2635	MRAAW2835	MRAAW3035	MRAAW3535	MRAAW4035
4' – 1 1/2"	4' – 2"	4–0	MRAAW1840	MRAAW2040	MRAAW2440	MRAAW2640	MRAAW2840	MRAAW3040	MRAAW3540	MRAAW4040

Awning – One by Two Operating Units

Widths

Heights

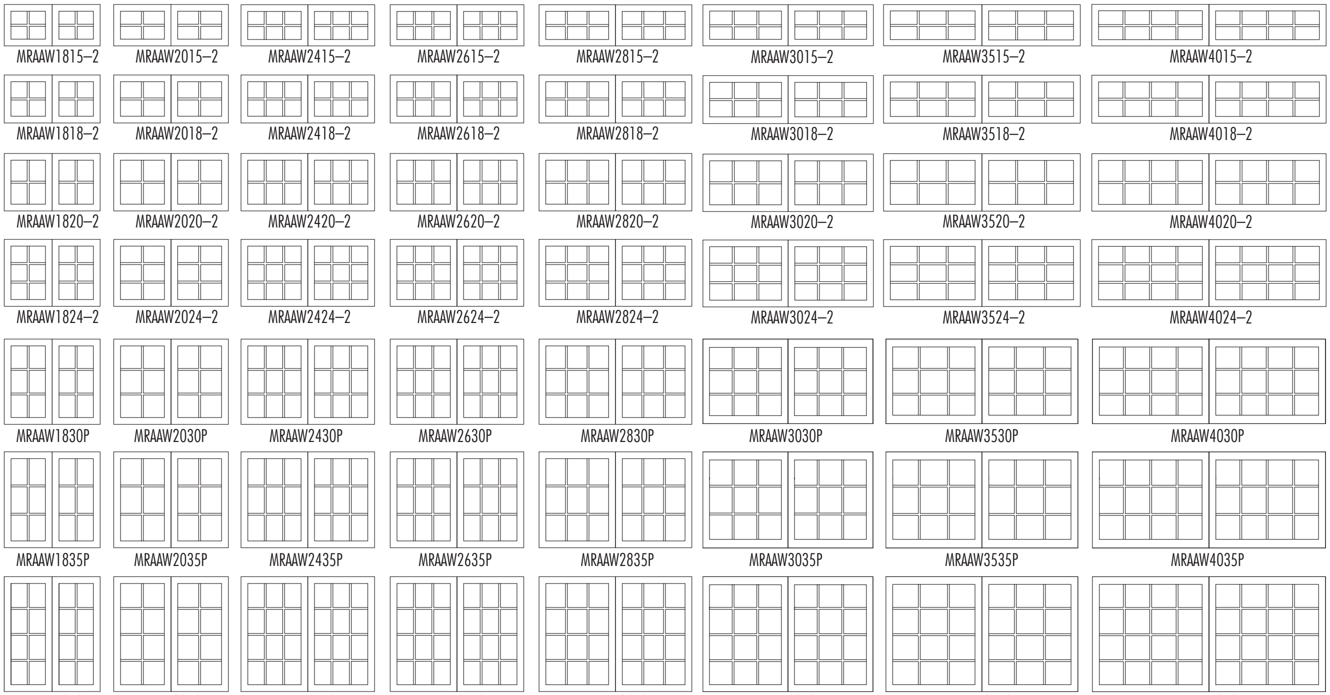


		Unit Dimension	1' – 8 1/4"	2' – 0 1/4"	2' – 4 1/4"	2' – 6 1/4"	2' – 8 1/4"	3' – 0"	3' – 5 1/2"	4' – 1 1/2"
		Rough Opening	1' – 9 1/4"	2' – 1 1/4"	2' – 5 1/4"	2' – 7 1/4"	2' – 9 1/4"	3' – 1"	3' – 6 1/2"	4' – 2 1/2"
Unit Dimension	Rough Opening	Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–5	4–0
2' – 10 1/2"	2' – 11"	1–5	MRAAW1815–12	MRAAW2015–12	MRAAW2415–12	MRAAW2615–12	MRAAW2815–12	MRAAW3015–12	MRAAW3515–12	MRAAW4015–12
3' – 5 1/2"	3' – 6"	1–8	MRAAW1818–12	MRAAW2018–12	MRAAW2418–12	MRAAW2618–12	MRAAW2818–12	MRAAW3018–12	MRAAW3518–12	MRAAW4018–12
4' – 1 1/2"	4' – 2"	2–0	MRAAW1820–12	MRAAW2020–12	MRAAW2420–12	MRAAW2620–12	MRAAW2820–12	MRAAW3020–12	MRAAW3520–12	MRAAW4020–12
4' – 9 1/2"	4' – 10"	2–4	MRAAW1824–12	MRAAW2024–12	MRAAW2424–12	MRAAW2624–12	MRAAW2824–12	MRAAW3024–12	MRAAW3524–12	MRAAW4024–12
6' – 1"	6' – 1 1/2"	3–0	MRAAW1830–12	MRAAW2030–12	MRAAW2430–12	MRAAW2630–12	MRAAW2830–12	MRAAW3030–12	MRAAW3530–12	MRAAW4030–12
7' – 0"	7' – 0 1/2"	3–5	MRAAW1835–12	MRAAW2035–12	MRAAW2435–12	MRAAW2635–12	MRAAW2835–12	MRAAW3035–12	MRAAW3535–12	MRAAW4035–12
8' – 4"	8' – 4 1/2"	4–0	MRAAW1840–12	MRAAW2040–12	MRAAW2440–12	MRAAW2640–12	MRAAW2840–12	MRAAW3040–12	MRAAW3540–12	MRAAW4040–12

Awning – Twin Operating Units

Widths

Heights

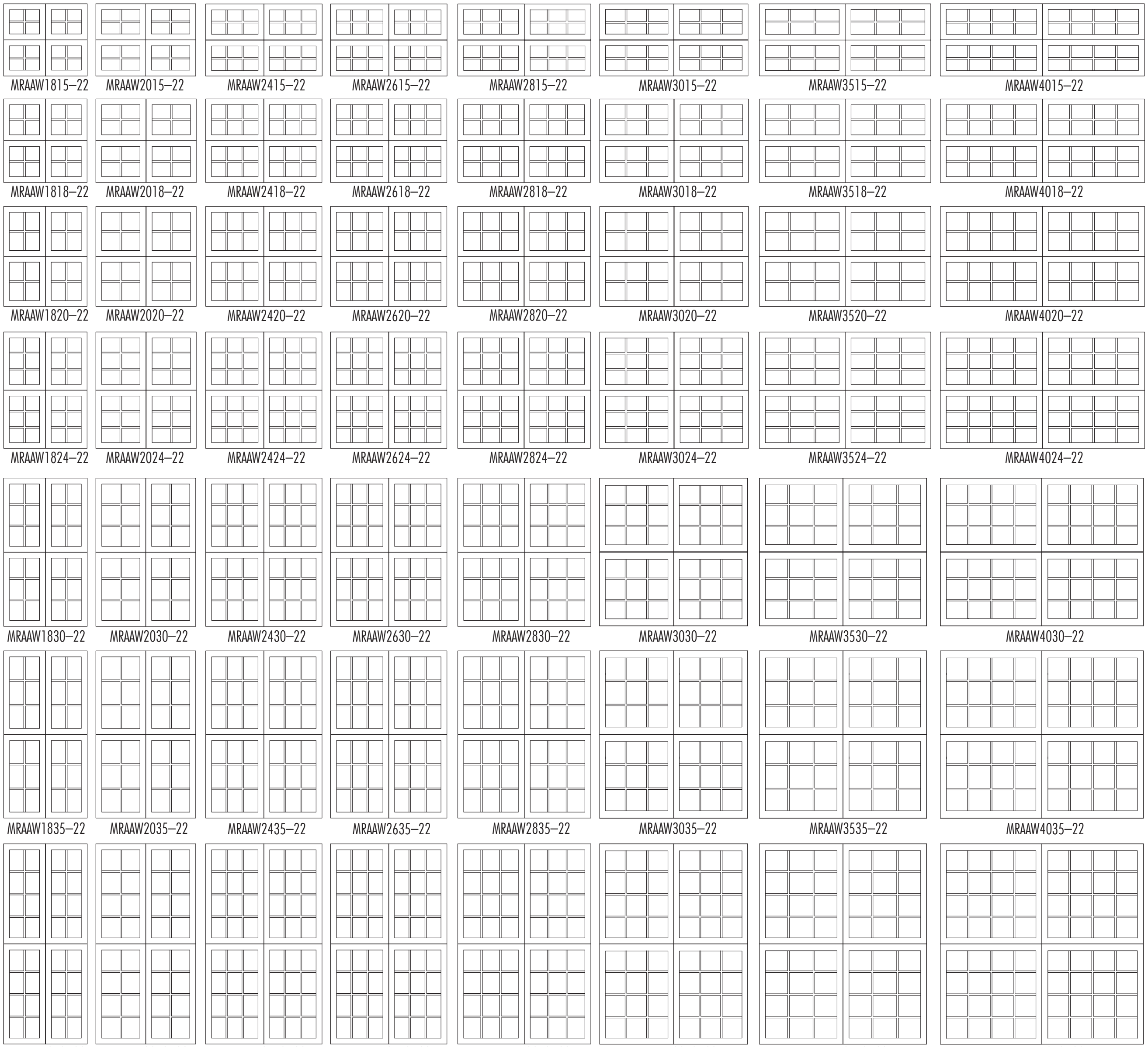


Unit Dimension	Rough Opening	Call Size	3'–5 1/2"	4'–1 1/2"	4'–9 1/2"	5'–1 1/2"	5'–5 1/2"	6'–1"	7'–0"	8'–4"
			3'–6 1/2"	4'–2 1/2"	4'–10 1/2"	5'–2 1/2"	5'–6 1/2"	6'–2"	7'–1"	8'–5"
			1–8 Twin	2–0 Twin	2–4 Twin	2–6 Twin	2–8 Twin	3–0 Twin	3–5 Twin	4–0 Twin
1'–5 1/4"	1'–5 3/4"	1–5	MRAAW1815–2	MRAAW2015–2	MRAAW2415–2	MRAAW2615–2	MRAAW2815–2	MRAAW3015–2	MRAAW3515–2	MRAAW4015–2
1'–8 1/4"	1'–8 3/4"	1–8	MRAAW1818–2	MRAAW2018–2	MRAAW2418–2	MRAAW2618–2	MRAAW2818–2	MRAAW3018–2	MRAAW3518–2	MRAAW4018–2
2'–0 1/4"	2'–0 3/4"	2–0	MRAAW1820–2	MRAAW2020–2	MRAAW2420–2	MRAAW2620–2	MRAAW2820–2	MRAAW3020–2	MRAAW3520–2	MRAAW4020–2
2'–4 1/4"	2'–4 3/4"	2–4	MRAAW1824–2	MRAAW2024–2	MRAAW2424–2	MRAAW2624–2	MRAAW2824–2	MRAAW3024–2	MRAAW3524–2	MRAAW4024–2
3'–0"	3'–0 1/2"	3–0	MRAAW1830P	MRAAW2030P	MRAAW2430P	MRAAW2630P	MRAAW2830P	MRAAW3030P	MRAAW3530P	MRAAW4030P
3'–5 1/2"	3'–6"	3–5	MRAAW1835P	MRAAW2035P	MRAAW2435P	MRAAW2635P	MRAAW2835P	MRAAW3035P	MRAAW3535P	MRAAW4035P
4'–1 1/2"	4'–2"	4–0	MRAAW1840P	MRAAW2040P	MRAAW2440P	MRAAW2640P	MRAAW2840P	MRAAW3040P	MRAAW3540P	MRAAW4040P

Awning – Two by Two Operating Units

Widths

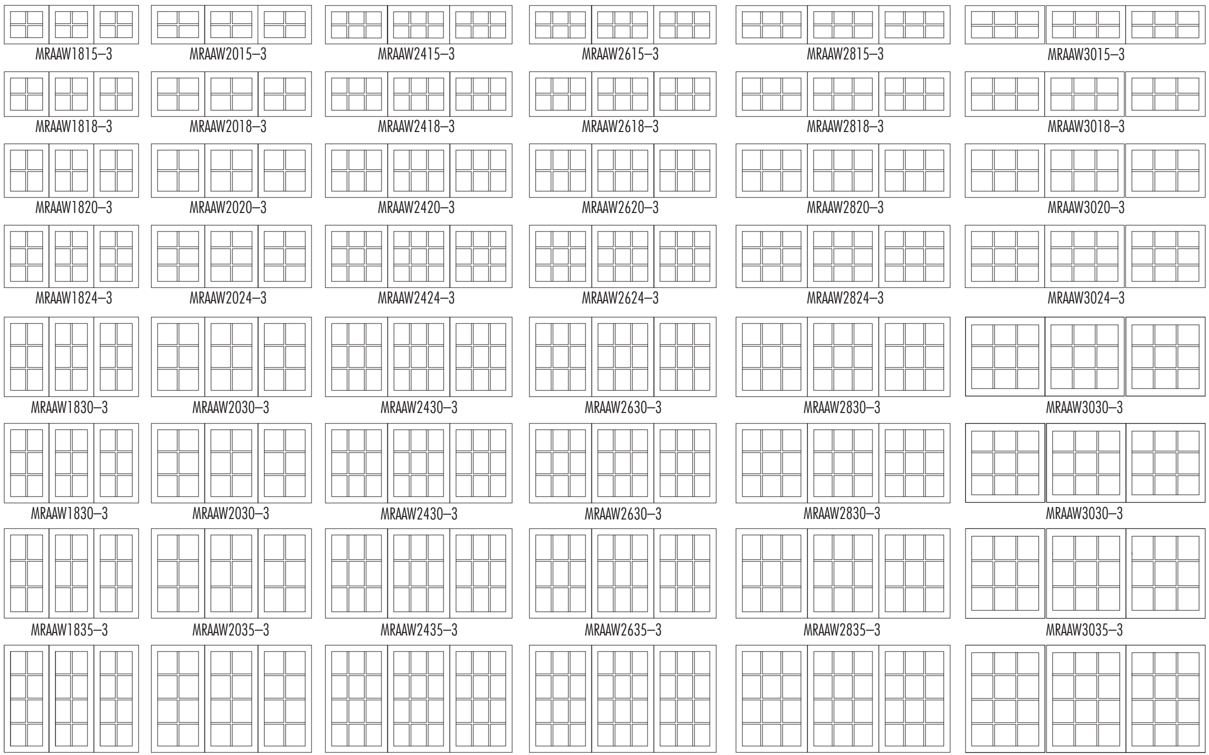
Heights



Unit Dimension			3'–5½"	4'–1½"	4'–9½"	5'–1½"	5'–5½"	6'–1"	7'–0"	8'–4"
	Rough Opening		3'–6½"	4'–2½"	4'–10½"	5'–2½"	5'–6½"	6'–2"	7'–1"	8'–5"
		Call Size	1–8	2–0	2–4	2–6	2–8	3–0	3–5	4–0
2'–10½"	2'–11"	1–5	MRAAW1815–22	MRAAW2015–22	MRAAW2415–22	MRAAW2615–22	MRAAW2815–22	MRAAW3015–22	MRAAW3515–22	MRAAW4015–22
3'–5½"	3'–6"	1–8	MRAAW1818–22	MRAAW2018–22	MRAAW2418–22	MRAAW2618–22	MRAAW2818–22	MRAAW3018–22	MRAAW3518–22	MRAAW4018–22
4'–1½"	4'–2"	2–0	MRAAW1820–22	MRAAW2020–22	MRAAW2420–22	MRAAW2620–22	MRAAW2820–22	MRAAW3020–22	MRAAW3520–22	MRAAW4020–22
4'–9½"	4'–10"	2–4	MRAAW1824–22	MRAAW2024–22	MRAAW2424–22	MRAAW2624–22	MRAAW2824–22	MRAAW3024–22	MRAAW3524–22	MRAAW4024–22
6'–1"	6'–1½"	3–0	MRAAW1830–22	MRAAW2030–22	MRAAW2430–22	MRAAW2630–22	MRAAW2830–22	MRAAW3030–22	MRAAW3530–22	MRAAW4030–22
7'–0"	7'–0½"	3–5	MRAAW1835–22	MRAAW2035–22	MRAAW2435–22	MRAAW2635–22	MRAAW2835–22	MRAAW3035–22	MRAAW3535–22	MRAAW4035–22
8'–4"	8'–4½"	4–0	MRAAW1840–22	MRAAW2040–22	MRAAW2440–22	MRAAW2640–22	MRAAW2840–22	MRAAW3040–22	MRAAW3540–22	MRAAW4040–22

Widths

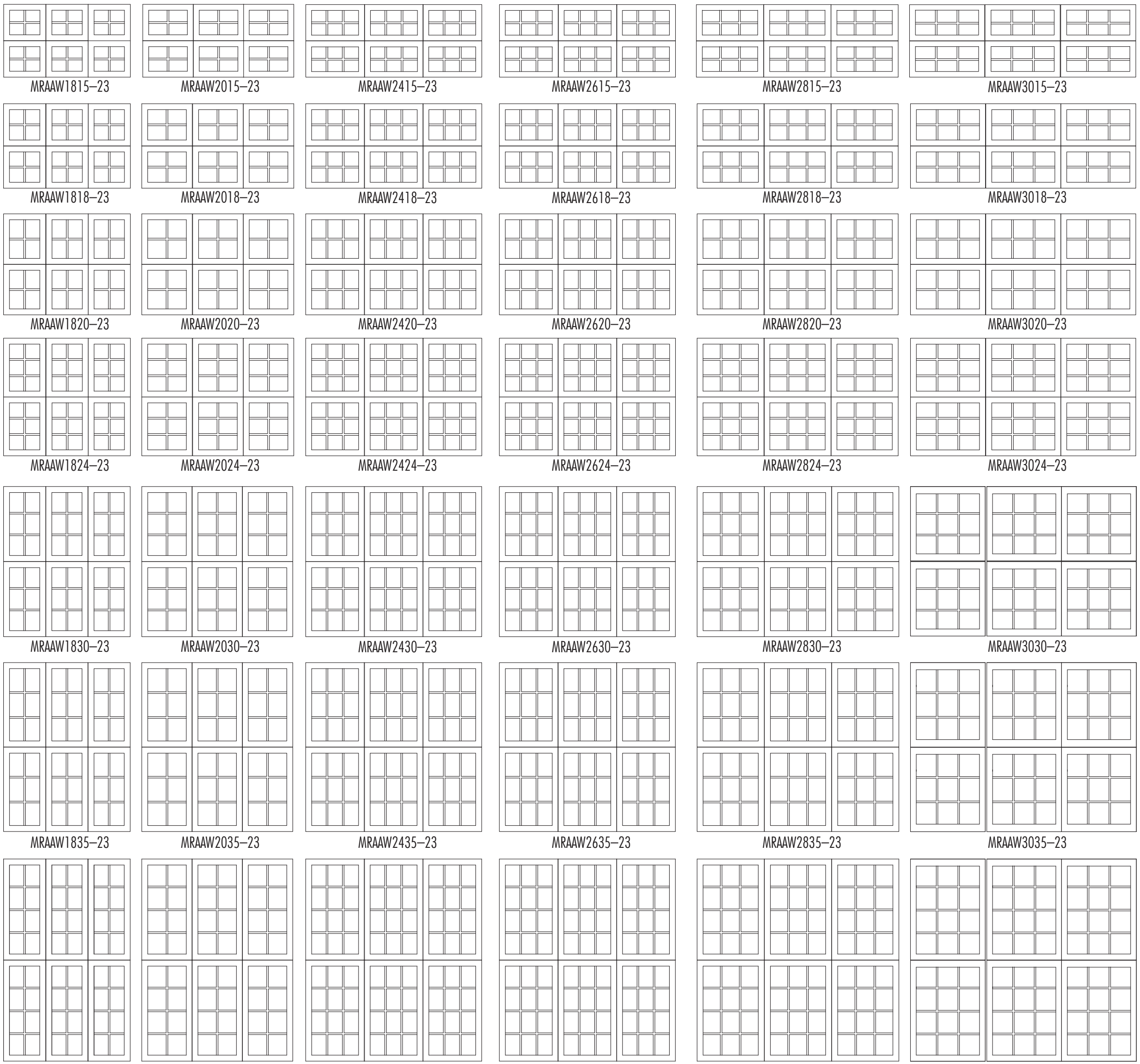
Heights



Unit Dimension	Rough Opening	Call Size	5' – 2 ¾"	6' – 2 ¾"	7' – 2 ¾"	7' – 8 ¾"	8' – 2 ¾"	9' – 2"
			5' – 3 ¾"	6' – 3 ¾"	7' – 3 ¾"	7' – 9 ¾"	8' – 3 ¾"	9' – 3"
			1–8 Triple	2–0 Triple	2–4 Triple	2–6 Triple	2–8 Triple	3–0 Triple
1' – 5 ¼"	1' – 5 ¾"	1–5	MRAAW1815–3	MRAAW2015–3	MRAAW2415–3	MRAAW2615–3	MRAAW2815–3	MRAAW3015–3
1' – 8 ¼"	1' – 8 ¾"	1–8	MRAAW1818–3	MRAAW2018–3	MRAAW2418–3	MRAAW2618–3	MRAAW2818–3	MRAAW3018–3
2' – 0 ¼"	2' – 0 ¾"	2–0	MRAAW1820–3	MRAAW2020–3	MRAAW2420–3	MRAAW2620–3	MRAAW2820–3	MRAAW3020–3
2' – 4 ¼"	2' – 4 ¾"	2–4	MRAAW1824–3	MRAAW2024–3	MRAAW2424–3	MRAAW2624–3	MRAAW2824–3	MRAAW3024–3
3' – 0"	3' –0 ½"	3–0	MRAAW1830–3	MRAAW2030–3	MRAAW2430–3	MRAAW2630–3	MRAAW2830–3	MRAAW3030–3
3' – 0"	3' –0 ½"	3–0	MRAAW1830–3	MRAAW2030–3	MRAAW2430–3	MRAAW2630–3	MRAAW2830–3	MRAAW3030–3
3' – 5 ½"	3' – 6"	3–5	MRAAW1835–3	MRAAW2035–3	MRAAW2435–3	MRAAW2635–3	MRAAW2835–3	MRAAW3035–3
4' – 1 ½"	4' – 2"	4–0	MRAAW1840–3	MRAAW2040–3	MRAAW2440–3	MRAAW2640–3	MRAAW2840–3	MRAAW3040–3

Widths

Heights



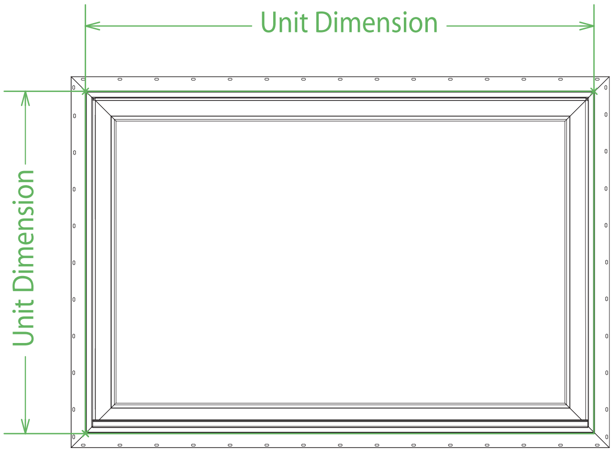
		Unit Dimension	5' – 2 3/4"	6' – 2 3/4"	7' – 2 3/4"	7' – 8 3/4"	8' – 2 3/4"	9' – 2"
		Rough Opening	5' – 3 3/4"	6' – 3 3/4"	7' – 3 3/4"	7' – 9 3/4"	8' – 3 3/4"	9' – 3"
		Call Size	1–8	2–0	2–4	2–6	2–8	3–0
2' – 10 1/2"	2' – 11"	1–5	MRAAW1815–23	MRAAW2015–23	MRAAW2415–23	MRAAW2615–23	MRAAW2815–23	MRAAW3015–23
3' – 5 1/2"	3' – 6"	1–8	MRAAW1818–23	MRAAW2018–23	MRAAW2418–23	MRAAW2618–23	MRAAW2818–23	MRAAW3018–23
4' – 1 1/2"	4' – 2"	2–0	MRAAW1820–23	MRAAW2020–23	MRAAW2420–23	MRAAW2620–23	MRAAW2820–23	MRAAW3020–23
4' – 9 1/2"	4' – 10"	2–4	MRAAW1824–23	MRAAW2024–23	MRAAW2424–23	MRAAW2624–23	MRAAW2824–23	MRAAW3024–23
6' – 1"	6' – 1 1/2"	3–0	MRAAW1830–23	MRAAW2030–23	MRAAW2430–23	MRAAW2630–23	MRAAW2830–23	MRAAW3030–23
7' – 0"	7' – 0 1/2"	3–5	MRAAW1835–23	MRAAW2035–23	MRAAW2435–23	MRAAW2635–23	MRAAW2835–23	MRAAW3035–23
8' – 4"	8' – 4 1/2"	4–0	MRAAW1840–23	MRAAW2040–23	MRAAW2440–23	MRAAW2640–23	MRAAW2840–23	MRAAW3040–23

Awning – Fixed Units

Widths

Heights

Unit Dimension	Rough Opening	Call Size	1' – 1 ¼" 1' – 2 ¼" 1–0 Picture	1' – 8 ¼" 1' – 9 ¼" 1–8 Picture	2' – 0 ¼" 2' – 1 ¼" 2–0 Picture	2' – 4 ¼" 2' – 5 ¼" 2–4 Picture	2' – 6 ¼" 2' – 6 ¼" 2–6 Picture	2' – 8 ¼" 2' – 9 ¼" 2–8 Picture	3' – 0" 3' – 1" 3–0 Picture	3' – 5 ½" 3' – 6 ½" 3–5 Picture	4' – 1 ½" 4' – 2 ½" 4–0 Picture	5' – 0 ¼" 5' – 1 ¼" 5–0 Picture	6' – 0 ¼" 6' – 1 ¼" 6–0 Picture
1' – 5 ¼"	1' – 5 ¾"	1–5	MRAAW1018P	MRAAW1815P	MRAAW2015P	MRAAW2415P	MRAAW2615P	MRAAW2815P	MRAAW3015P	MRAAW3515P	MRAAW4015	MRAAW5018P	MRAAW6018P
1' – 8 ¼"	1' – 8 ¾"	1–8	MRAAW1018P	MRAAW1818P	MRAAW2018P	MRAAW2418P	MRAAW2618P	MRAAW2818P	MRAAW3018P	MRAAW3518P	MRAAW4018P	MRAAW5018P	MRAAW6018P
2' – 0 ¼"	2' – 0 ¾"	2–0	MRAAW1020P	MRAAW1820P	MRAAW2020P	MRAAW2420P	MRAAW2620P	MRAAW2820P	MRAAW3020P	MRAAW3520P	MRAAW4020P	MRAAW5020P	MRAAW6020P
2' – 4 ¼"	2' – 4 ¾"	2–4	MRAAW1024P	MRAAW1824P	MRAAW2024P	MRAAW2424P	MRAAW2624P	MRAAW2824P	MRAAW3024P	MRAAW3524P	MRAAW4024P	MRAAW5024P	MRAAW6024P
3' – 0"	3' – 0 ½"	3–0	MRAAW1030P	MRAAW1830P	MRAAW2030P	MRAAW2430P	MRAAW2630P	MRAAW2830P	MRAAW3030P	MRAAW3530P	MRAAW4030P	MRAAW5030P	MRAAW6030P
3' – 4 ½"	3' – 5"	3–5	MRAAW1035P	MRAAW1835P	MRAAW2035P	MRAAW2435P	MRAAW2635P	MRAAW2835P	MRAAW3035P	MRAAW3535P	MRAAW4035P	MRAAW5035P	MRAAW6035P
4' – 0 ½"	4' – 1"	4–0	MRAAW1040P	MRAAW1840P	MRAAW2040P	MRAAW2440P	MRAAW2640P	MRAAW2840P	MRAAW3040P	MRAAW3540P	MRAAW4040P	MRAAW5040P	MRAAW6040P



To calculate unit dimension on multiple units, add 1” per mull together with actual unit dimension.

Operating & Fixed Units, HEIGHT

CALL SIZE (HEIGHT)	ONE HEIGHT	TWO HEIGHT	THREE HEIGHT
1-5	16-3/4	34-1/2	51-1/4
1-8	20-1/4	41-1/2	62-3/4
2-0	24-1/4	49-1/2	74-3/4
2-4	28-1/4	57-1/2	86-3/4
3-0	36	73	110
3-5	41-1/2	84	N/A
4-0	49-1/2	100	N/A
5-0	60	N/A	N/A

Operating Units, WIDTH

CALL SIZE (WIDTH)	2-0	2-4	2-6	2-8	3-0	3-5	4-0
ONE WIDE	24-1/4	28-1/4	30-1/4	32-1/4	36	41-1/2	49-1/2
TWO WIDE	49-1/2	57-1/2	61-1/2	65-1/2	73	84	100
THREE WIDE	74-3/4	86-3/4	92-3/4	98-3/4	110	N/A	N/A
FOUR WIDE	100	116	N/A	N/A	N/A	N/A	N/A

Fixed Units, WIDTH

CALL SIZE (WIDTH)	2-0	2-4	2-6	2-8	3-0	3-5	4-0	5-0	6-0
ONE WIDE	24-1/4	28-1/4	30-1/4	32-1/4	36	41-1/2	49-1/2	60	72
TWO WIDE	49-1/2	57-1/2	61-1/2	65-1/2	73	84	100	121	145
THREE WIDE	74-3/4	86-3/4	92-3/4	98-3/4	110	N/A	N/A	N/A	N/A

Picture Over Single Awning Units, HEIGHT

CALL SIZE (WIDTH)	HEIGHT IN INCHES
1-8/3-5	62-¾
1-8/4-0	70-¾
1-8/5-0	81-¼

CALL SIZE (WIDTH)	HEIGHT IN INCHES
2-0/3-5	66-¾
2-0/4-0	74-¾
2-0/5-0	85-¼

CALL SIZE (WIDTH)	HEIGHT IN INCHES
2-4/3-5	70-¾
2-4/4-0	78-¾
2-4/5-0	89-¼

Operating Units

Call Size	Daylight Opening S.F.
MRAAW1815	1.1
18	1.5
20	1.9
24	2.3
30	3.1
35	3.6
40	4.4
MRAAW2015	1.4
18	1.9
20	2.4
24	2.9
30	3.9
35	4.6
40	5.6
MRAAW2415	1.7
18	2.3
20	2.9
24	3.5
30	4.7
35	5.6
40	6.9
MRAAW2615	1.9
18	2.5
20	3.2
24	3.9
30	5.2
35	6.1
40	8.1

Call Size	Daylight Opening S.F.
MRAAW2815	2.0
18	2.7
20	3.4
24	4.2
30	5.6
35	6.6
40	8.1
MRAAW3015	2.3
18	3.1
20	3.9
24	4.7
30	6.4
35	7.5
40	9.2
MRAAW3515	2.8
18	3.6
20	4.6
24	5.6
30	7.5
35	8.9
40	10.9
MRAAW4015	3.4
18	4.4
20	5.6
24	6.9
30	9.2
35	10.9
40	13.3

NOTE: Awning units do NOT satisfy egress requirements.

Fixed Units

Call Size	Daylight Opening S.F.
MRAAW1020P	1.0
24	1.2
30	1.6
35	1.9
40	2.3
45	2.5
50	2.9
55	3.2
60	3.5
MRAAW1520P	1.4
24	1.7
30	2.3
35	2.8
40	3.4
45	3.6
50	4.2
55	4.6
60	5.1
MRAAW1820P	1.9
24	2.3
30	3.1
35	3.6
40	4.4
45	4.8
50	5.5
55	6.0
60	6.7
MRAAW2020P	2.4
24	2.9
30	3.9
35	4.6
40	5.6
45	6.1
50	7.0
55	7.6
60	8.5

Call Size	Daylight Opening S.F.
MRAAW2420P	2.9
24	3.5
30	4.7
35	5.6
40	6.9
45	7.4
50	8.5
55	9.3
60	10.4
MRAAW2620P	3.2
24	3.8
30	5.2
35	6.1
40	7.5
45	8.1
50	9.3
55	10.1
60	11.3
MRAAW2820P	3.4
24	4.2
30	5.6
35	6.6
40	8.1
45	8.7
50	10.0
55	10.9
60	12.2
MRAAW3020P	3.9
24	4.7
30	6.4
35	7.5
40	9.2
45	10.0
50	11.4
55	12.5
60	14.0

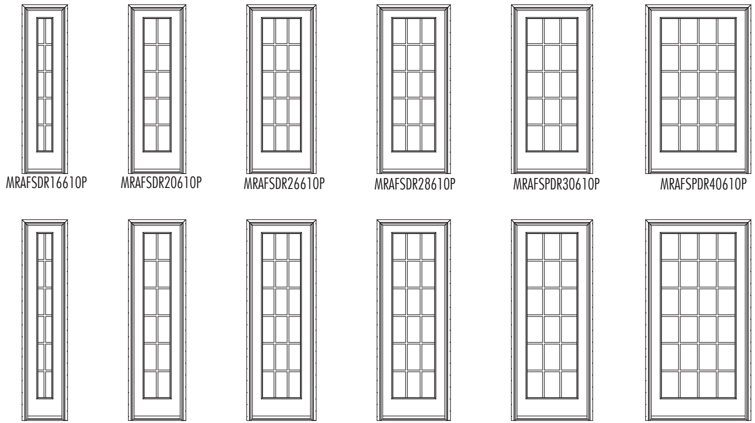
Call Size	Daylight Opening S.F.
MRAAW3520P	4.6
24	5.6
30	7.5
35	8.9
40	10.9
45	11.8
50	13.5
55	14.8
60	16.5
MRAAW4020P	5.6
24	6.9
30	9.2
35	10.9
40	13.3
45	14.4
50	16.5
55	18.0
60	20.2
MRAAW5020P	7.0
24	8.5
30	11.4
35	13.5
40	16.5
45	17.8
50	20.5
55	22.4
60	25.0
MRAAW6020P	8.5
24	10.4
30	14.0
35	16.5
40	20.2
45	21.8
50	25.0
55	27.3
60	30.5

French Sliding Doors – Fixed Panels & Transom Units

Fixed Panel

Widths

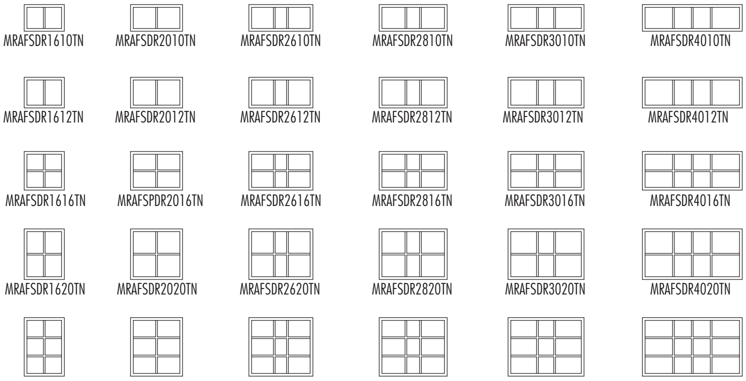
Heights



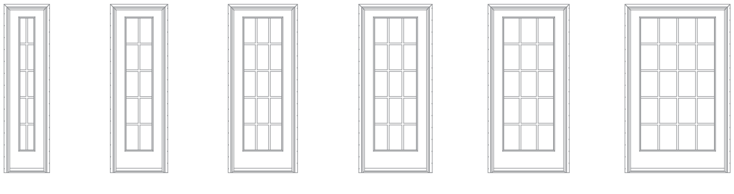
Unit Dimension			1'–8 1/8"	2'–2 1/8"	2'–8 1/8"	2'–10 1/8"	3'–2 1/8"	4'–2 1/8"
	Rough Opening		1'–9 1/8"	2'–3 1/8"	2'–9 1/8"	2'–11 1/8"	3'–3 1/8"	4'–3 1/8"
		Call Size	1–6	2–0	2–6	2–8	3–0	4–0
6–11 1/2"	7–0"	6–10	MRAFSDR16610P	MRAFSDR20610P	MRAFSDR26610P	MRAFSDR28610P	MRAFSPDR30610P	MRAFSPDR40610P
8–3 1/2"	8–4"	8–0	MRAFSDR1680P	MRAFSDR2080P	MRAFSDR2680P	MRAFSDR2880P	MRAFSDR3080P	MRAFSDR4080P

Widths

Heights



Unit Dimension			1'–8 1/8"	2'–2 1/8"	2'–8 1/8"	2'–10 1/8"	3'–2 1/8"	4'–2 1/8"
	Rough Opening		1'–9 1/8"	2'–3 1/8"	2'–9 1/8"	2'–11 1/8"	3'–3 1/8"	4'–3 1/8"
		Call Size	1–6	2–0	2–6	2–8	3–0	4–0
1–1 3/8	1–1 7/8"	1–0	MRAFSDR1610TN	MRAFSDR2010TN	MRAFSDR2610TN	MRAFSDR2810TN	MRAFSDR3010TN	MRAFSDR4010TN
1–3 3/8"	1–3 7/8"	1–2	MRAFSDR1612TN	MRAFSDR2012TN	MRAFSDR2612TN	MRAFSDR2812TN	MRAFSDR3012TN	MRAFSDR4012TN
1–7 3/8"	1–7 7/8"	1–6	MRAFSDR1616TN	MRAFSPDR2016TN	MRAFSDR2616TN	MRAFSDR2816TN	MRAFSDR3016TN	MRAFSDR4016TN
2–1 3/8"	2–1 7/8"	2–0	MRAFSDR1620TN	MRAFSDR2020TN	MRAFSDR2620TN	MRAFSDR2820TN	MRAFSDR3020TN	MRAFSDR4020TN
2–5 3/8"	2–5 7/8"	2–4	MRAFSDR1624TN	MRAFSDR2024TN	MRAFSDR2624TN	MRAFSDR2824TN	MRAFSDR3024TN	MRAFSDR4024TN



French Sliding Doors – Arch Transom, Elliptical & Circle Head Units

Standard Colonial Grille Pattern

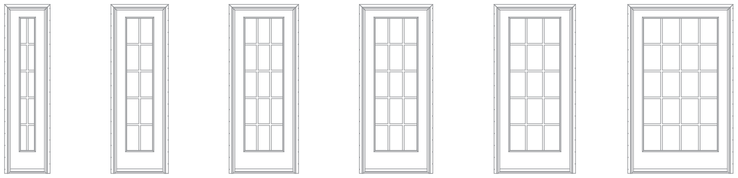
Widths

Heights

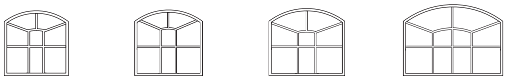
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	1'–8 1/8"	2'–2 1/8"	2'–8 1/8"	2'–10 1/8"	3'–2 1/8"	4'–2 1/8"
Rough Opening	1'–9 1/8"	2'–3 1/8"	2'–9 1/8"	2'–11 1/8"	3'–3 1/8"	4'–3 1/8"
Call Size	1–6	2–0	2–6	2–8	3–0	4–0
0–6	MRAFSDR1606AHTN 0' - 10 3/4" 0' - 11 1/4"	MRAFSDR2006AHTN 0' - 11 3/4" 1' - 0 1/4"	MRAFSDR2606AHTN 1' - 0 3/4" 1' - 1 1/4"	MRAFSDR2806AHTN 1' - 1 1/16" 1' - 1 9/16"	MRAFSDR3006AHTN 1' - 1 3/4" 1' - 2 1/4"	MRAFSDR4006AHTN 1' - 3 3/4" 1' - 4 1/4"
0–10	MRAFSDR16010AHTN 1' - 2 3/4" 1' - 3 1/4"	MRAFSDR20010AHTN 1' - 3 3/4" 1' - 4 1/4"	MRAFSDR26010AHTN 1' - 4 3/4" 1' - 5 1/4"	MRAFSDR28010AHTN 1' - 5 1/16" 1' - 5 9/16"	MRAFSDR30010AHTN 1' - 5 3/4" 1' - 6 1/4"	MRAFSDR40010AHTN 1' - 7 3/4" 1' - 8 1/4"
1–0	MRAFSDR1610AHTN 1' - 4 3/4" 1' - 5 1/4"	MRAFSDR2010AHTN 1' - 5 3/4" 1' - 6 1/4"	MRAFSDR2610AHTN 1' - 6 3/4" 1' - 7 1/4"	MRAFSDR2810AHTN 1' - 9 1/16" 1' - 9 9/16"	MRAFSDR3010AHTN 1' - 7 3/4" 1' - 8 1/4"	MRAFSDR4010AHTN 1' - 9 3/4" 1' - 10 1/4"
1–2	MRAFSDR1612AHTN 1' - 6 3/4" 1' - 7 1/4"	MRAFSDR2012AHTN 1' - 7 3/4" 1' - 8 1/4"	MRAFSDR2612AHTN 1' - 8 3/4" 1' - 9 1/4"	MRAFSDR2812AHTN 1' - 11 1/16" 1' - 11 9/16"	MRAFSDR3012AHTN 1' - 9 3/4" 1' - 10 1/4"	MRAFSDR4012AHTN 1' - 11 3/4" 2' - 0 1/4"
1–6	MRAFSDR1616AHTN 1' - 10 3/4" 1' - 11 1/4"	MRAFSDR2016AHTN 1' - 11 3/4" 2' - 0 1/4"	MRAFSDR2616AHTN 2' - 0 3/4" 2' - 1 1/4"	MRAFSDR2816AHTN 2' - 1 1/16" 2' - 1 9/16"	MRAFSDR3016AHTN 2' - 1 3/4" 2' - 2 1/4"	MRAFSDR4016AHTN 2' - 3 3/4" 2' - 4 1/4"
2–0	MRAFSDR1620AHTN 2' - 4 3/4" 2' - 4 1/4"	MRAFSDR2020AHTN 2' - 5 3/4" 2' - 6 1/4"	MRAFSDR2620AHTN 2' - 6 3/4" 2' - 7 1/4"	MRAFSDR2820AHTN 2' - 7 1/16" 2' - 7 9/16"	MRAFSDR3020AHTN 2' - 7 3/4" 2' - 8 1/4"	MRAFSDR4020AHTN 2' - 9 3/4" 2' - 10 1/4"

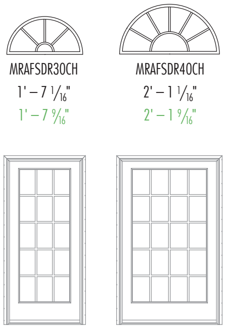


Optional Renaissance Grille Pattern



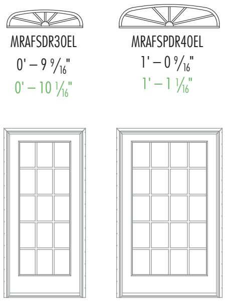
Widths

Unit Dimension	3' – 2 1/8"	4' – 2 3/8"
Rough Opening	3' – 3 1/8"	4' – 3 3/8"
Call Size	3–0	4–0
	MRAFSDR30CH 1' – 7 1/16" 1' – 7 9/16"	MRAFSDR40CH 2' – 1 1/16" 2' – 1 9/16"

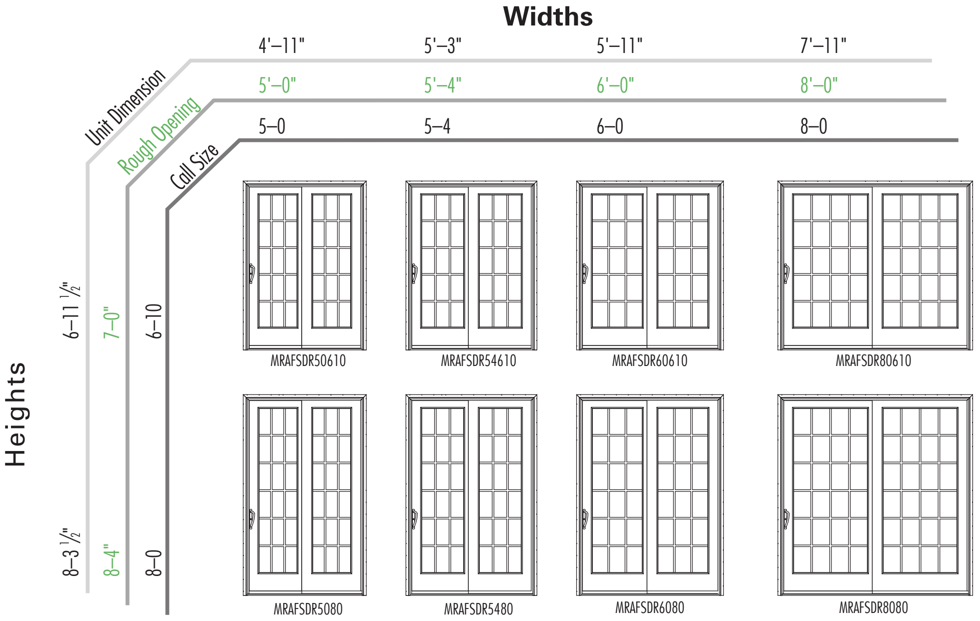


Widths

Unit Dimension	3' – 2 1/8"	4' – 2 3/8"
Rough Opening	3' – 3 1/8"	4' – 3 3/8"
Call Size	3–0	4–0
	MRAFSDR30EL 0' – 9 9/16" 0' – 10 1/16"	MRAFSPDR40EL 1' – 0 9/16" 1' – 1 1/16"



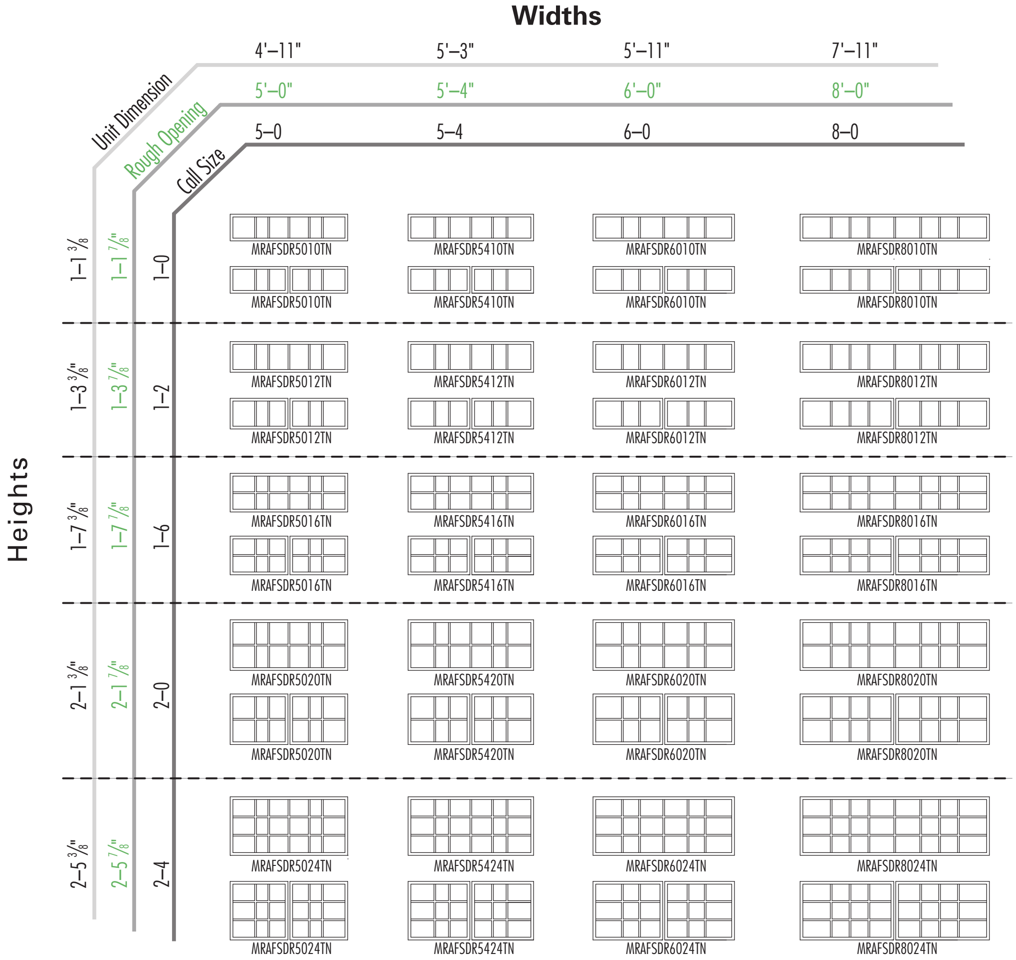
French Sliding Doors – 2-Panel Operating & Transom Units



Widths

Heights

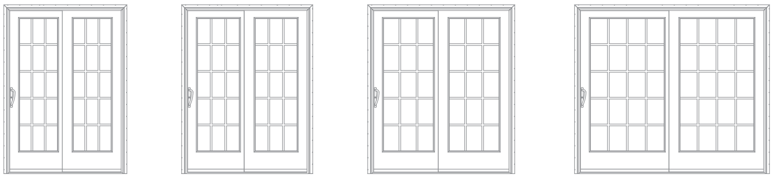
		Unit Dimension	4'–11"	5'–3"	5'–11"	7'–11"
		Rough Opening	5'–0"	5'–4"	6'–0"	8'–0"
Unit Dimension	Rough Opening	Call Size	5–0	5–4	6–0	8–0
6–11 1/2"	7–0"	6–10	MRAFSDR50610	MRAFSDR54610	MRAFSDR60610	MRAFSDR80610
8–3 1/2"	8–4"	8–0	MRAFSDR5080	MRAFSDR5480	MRAFSDR6080	MRAFSDR8080



Widths

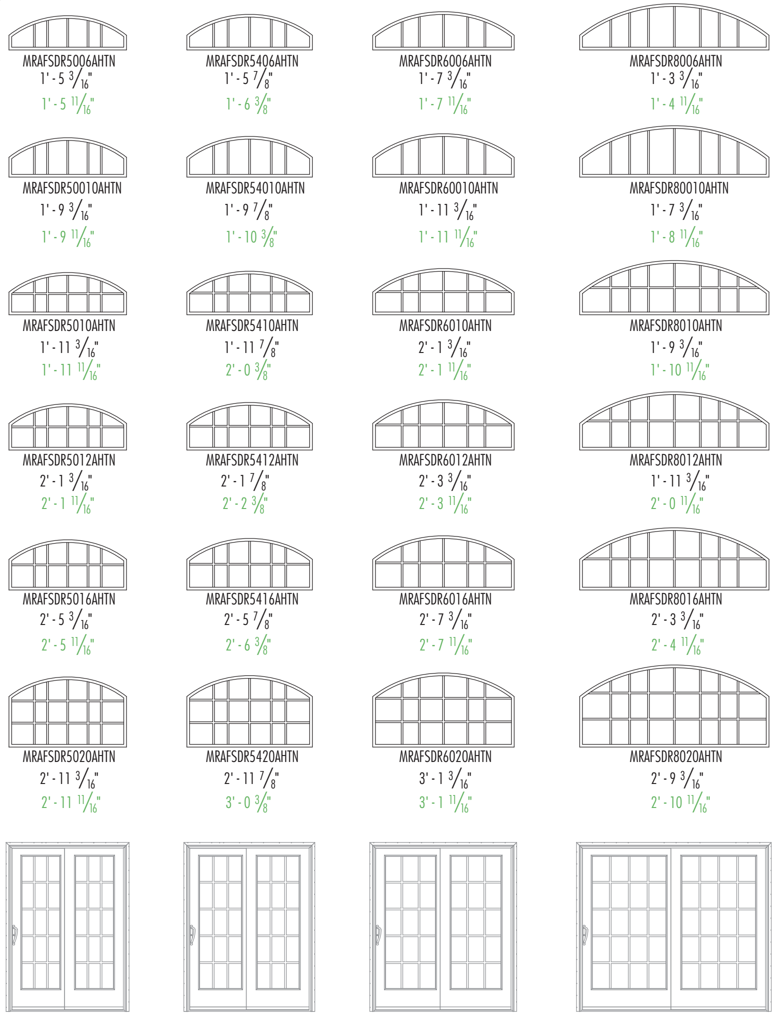
Heights

		Unit Dimension	4'–11"	5'–3"	5'–11"	7'–11"
		Rough Opening	5'–0"	5'–4"	6'–0"	8'–0"
Unit Dimension	Rough Opening	Call Size	5–0	5–4	6–0	8–0
1–1 3/8"	1–1 7/8"	1–0	MRAFSDR5010TN MRAFSDR5010TN	MRAFSDR5410TN MRAFSDR5410TN	MRAFSDR6010TN MRAFSDR6010TN	MRAFSDR8010TN MRAFSDR8010TN
1–3 3/8"	1–3 7/8"	1–2	MRAFSDR5012TN MRAFSDR5012TN	MRAFSDR5412TN MRAFSDR5412TN	MRAFSDR6012TN MRAFSDR6012TN	MRAFSDR8012TN MRAFSDR8012TN
1–7 3/8"	1–7 7/8"	1–6	MRAFSDR5016TN MRAFSDR5016TN	MRAFSDR5416TN MRAFSDR5416TN	MRAFSDR6016TN MRAFSDR6016TN	MRAFSDR8016TN MRAFSDR8016TN
2–1 3/8"	2–1 7/8"	2–0	MRAFSDR5020TN MRAFSDR5020TN	MRAFSDR5420TN MRAFSDR5420TN	MRAFSDR6020TN MRAFSDR6020TN	MRAFSDR8020TN MRAFSDR8020TN
2–5 3/8"	2–5 7/8"	2–4	MRAFSDR5024TN MRAFSDR5024TN	MRAFSDR5424TN MRAFSDR5424TN	MRAFSDR6024TN MRAFSDR6024TN	MRAFSDR8024TN MRAFSDR8024TN



French Sliding Doors – 2-Panel Arch Transom, Elliptical & Circle Head Units

Standard Colonial Grille Pattern



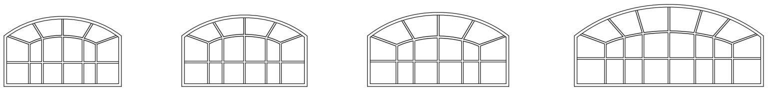
Heights

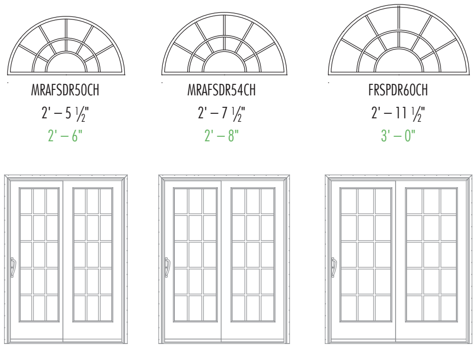
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

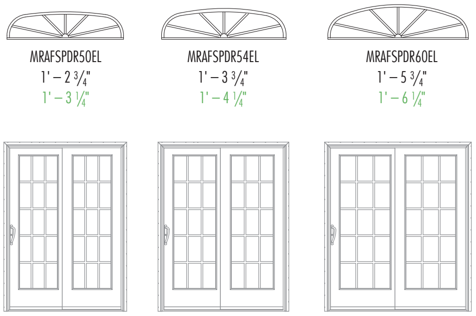
	Widths			
Unit Dimension	4'–11"	5'–3"	5'–11"	7'–11"
Rough Opening	5'–0"	5'–4"	6'–0"	8'–0"
Call Size	5–0	5–4	6–0	8–0
0–6	MRAFSDR5006AHTN 1'-5 3/16" 1'-5 11/16"	MRAFSDR5406AHTN 1'-5 7/8" 1'-6 3/8"	MRAFSDR6006AHTN 1'-7 3/16" 1'-7 11/16"	MRAFSDR8006AHTN 1'-3 3/16" 1'-4 11/16"
0–10	MRAFSDR50010AHTN 1'-9 3/16" 1'-9 11/16"	MRAFSDR54010AHTN 1'-9 7/8" 1'-10 3/8"	MRAFSDR60010AHTN 1'-11 3/16" 1'-11 11/16"	MRAFSDR80010AHTN 1'-7 3/16" 1'-8 11/16"
1–0	MRAFSDR5010AHTN 1'-11 3/16" 1'-11 11/16"	MRAFSDR5410AHTN 1'-11 7/8" 2'-0 3/8"	MRAFSDR6010AHTN 2'-1 3/16" 2'-1 11/16"	MRAFSDR8010AHTN 1'-9 3/16" 1'-10 11/16"
1–2	MRAFSDR5012AHTN 2'-1 3/16" 2'-1 11/16"	MRAFSDR5412AHTN 2'-1 7/8" 2'-2 3/8"	MRAFSDR6012AHTN 2'-3 3/16" 2'-3 11/16"	MRAFSDR8012AHTN 1'-11 3/16" 2'-0 11/16"
1–6	MRAFSDR5016AHTN 2'-5 3/16" 2'-5 11/16"	MRAFSDR5416AHTN 2'-5 7/8" 2'-6 3/8"	MRAFSDR6016AHTN 2'-7 3/16" 2'-7 11/16"	MRAFSDR8016AHTN 2'-3 3/16" 2'-4 11/16"
2–0	MRAFSDR5020AHTN 2'-11 3/16" 2'-11 11/16"	MRAFSDR5420AHTN 2'-11 7/8" 3'-0 3/8"	MRAFSDR6020AHTN 3'-1 3/16" 3'-1 11/16"	MRAFSDR8020AHTN 2'-9 3/16" 2'-10 11/16"

Optional Renaissance Grille Pattern





	Widths		
Unit Dimension	4' – 11"	5' – 3"	5' – 11"
Rough Opening	5' – 0"	5' – 4"	6' – 0"
Call Size	5–0	5–4	6–0
	MRAFSDR50CH 2' – 5 1/2" 2' – 6"	MRAFSDR54CH 2' – 7 1/2" 2' – 8"	FRSPDR60CH 2' – 11 1/2" 3' – 0"

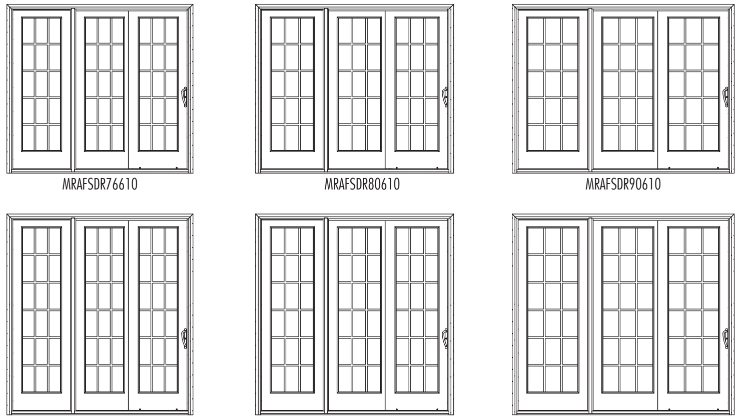


	Widths		
Unit Dimension	4' – 11"	5' – 3"	5' – 11"
Rough Opening	5' – 0"	5' – 4"	6' – 0"
Call Size	5–0	5–4	6–0
	MRAFSPDR50EL 1' – 2 3/4" 1' – 3 1/4"	MRAFSPDR54EL 1' – 3 3/4" 1' – 4 1/4"	MRAFSPDR60EL 1' – 5 3/4" 1' – 6 1/4"

French Sliding Doors – 3-Panel Operating & Transom Units

Widths

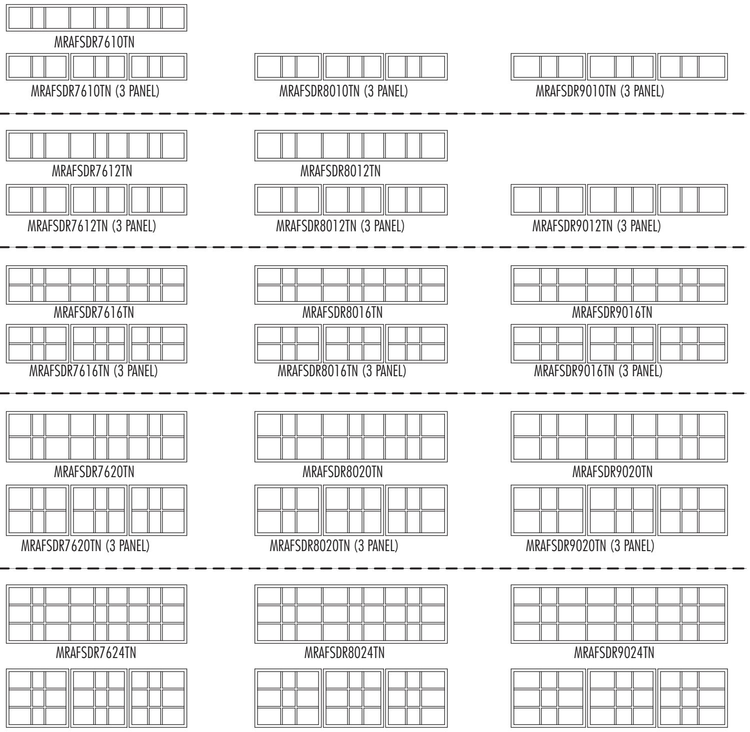
Heights



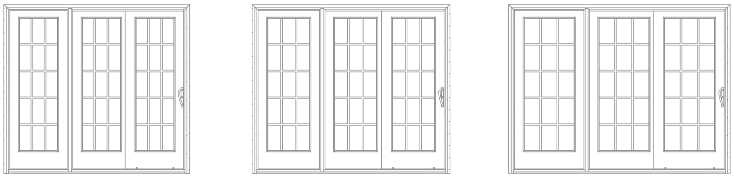
		Unit Dimension	7'–6 5/8"	8'–0 5/8"	9'–0 5/8"
		Rough Opening	7'–7 11/16"	8'–1 5/8"	9'–1 5/8"
		Call Size	7–6	8–0	9–0
6–11 1/2"	7–0"	6–10	MRAFSDR76610	MRAFSDR80610	MRAFSDR90610
8–3 1/2"	8–4"	8–0	MRAFSDR7680	MRAFSDR8080	MRAFSDR9080

Widths

Heights



		Unit Dimension	7'–6 5/8"	8'–0 5/8"	9'–0 5/8"
		Rough Opening	7'–7 5/8"	8'–1 5/8"	9'–1 5/8"
		Call Size	7–6	8–0	9–0
1–1 3/8	1–1 7/8"	1–0	MRAFSDR7610TN MRAFSDR7610TN (3 PANEL)	MRAFSDR8010TN (3 PANEL)	MRAFSDR9010TN (3 PANEL)
1–3 3/8"	1–3 7/8"	1–2	MRAFSDR7612TN MRAFSDR7612TN (3 PANEL)	MRAFSDR8012TN MRAFSDR8012TN (3 PANEL)	MRAFSDR9012TN (3 PANEL)
1–7 3/8"	1–7 7/8"	1–6	MRAFSDR7616TN MRAFSDR7616TN (3 PANEL)	MRAFSDR8016TN MRAFSDR8016TN (3 PANEL)	MRAFSDR9016TN MRAFSDR9016TN (3 PANEL)
2–1 3/8"	2–1 7/8"	2–0	MRAFSDR7620TN MRAFSDR7620TN (3 PANEL)	MRAFSDR8020TN MRAFSDR8020TN (3 PANEL)	MRAFSDR9020TN MRAFSDR9020TN (3 PANEL)
2–5 3/8"	2–5 7/8"	2–4	MRAFSDR7624TN MRAHPDRFS24TN (3 PANEL)	MRAFSDR8024TN MRAFSDR8024TN (3 PANEL)	MRAFSDR9024TN MRAFSDR9024TN (3 PANEL)



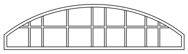
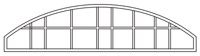
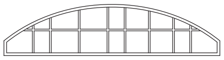
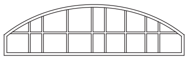
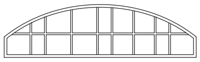
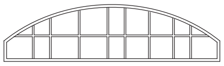
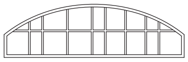
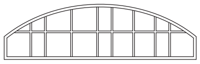
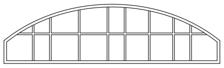
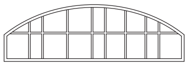
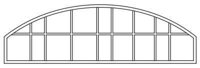
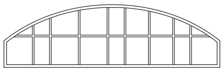
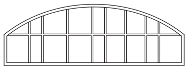
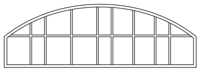
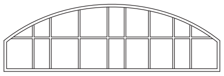
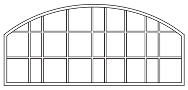
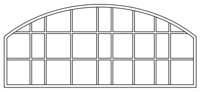
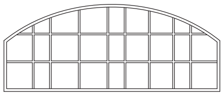
Standard Colonial Grille Pattern

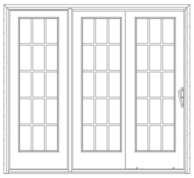
Widths

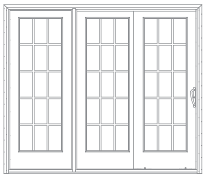
Heights

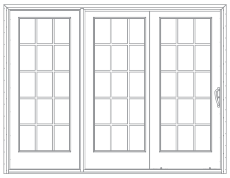
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

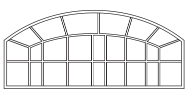
Unit Dimension	7'–6 5/8"	8'–0 5/8"	9'–0 5/8"
Rough Opening	7'–7 5/8"	8'–1 5/8"	9'–1 5/8"
Call Size	7–6	8–0	9–0
0–6	 MRAFSDR7606AH 1' - 10 1/2" 1' - 11"	 MRAFSDR8006AH 1' - 11 1/2" 2' - 0"	 MRAFSDR9006AH 2' - 1 1/2" 2' - 2"
0–10	 MRAFSDR76010AH 2' - 2 1/2" 2' - 3"	 MRAFSDR80010AH 2' - 3 1/2" 2' - 4"	 MRAFSDR90010AH 2' - 5 1/2" 2' - 6"
1–0	 MRAFSDR7610AH 2' - 4 1/2" 2' - 5"	 MRAFSDR8010AH 2' - 5 1/2" 2' - 6"	 MRAFSDR9010AH 2' - 7 1/2" 2' - 8"
1–2	 MRAFSDR7612AH 2' - 6 1/2" 2' - 7"	 MRAFSDR8012AH 2' - 7 1/2" 2' - 8"	 MRAFSDR9012AH 2' - 9 1/2" 2' - 10"
1–6	 MRAFSDR7616AH 2' - 10 1/2" 2' - 11"	 MRAFSDR8016AH 2' - 11 1/2" 3' - 0"	 MRAFSDR9016AH 3' - 1 1/2" 3' - 2"
2–0	 MRAFSDR7620AH 3' - 4 1/2" 3' - 5"	 MRAFSDR8020AH 3' - 5 1/2" 3' - 6"	 MRAFSDR9020AH 3' - 7 1/2" 3' - 8"

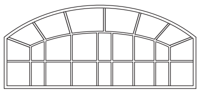


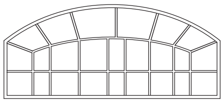




Optional Renaissance Grille Pattern



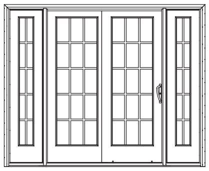
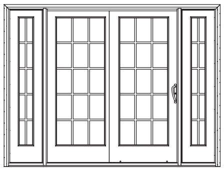
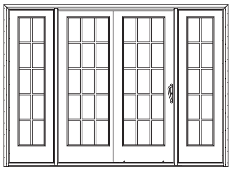
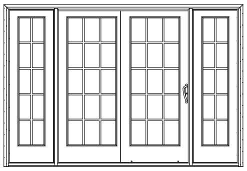
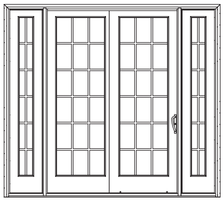
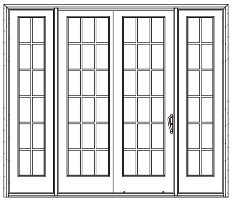
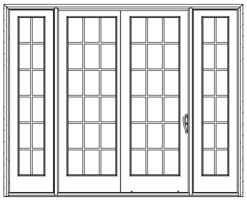
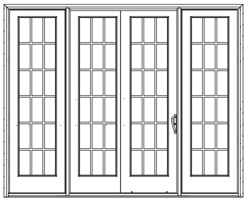




French Sliding Doors – 4-Panel Operating & Transom Units

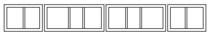
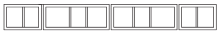
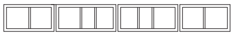
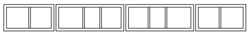
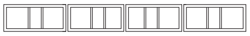
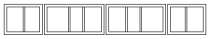
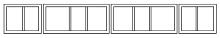
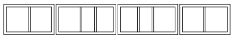
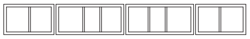
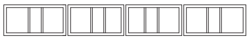
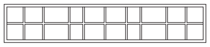
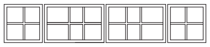
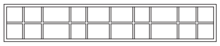
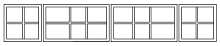
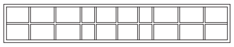
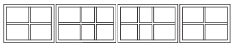
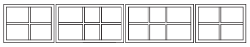
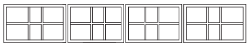
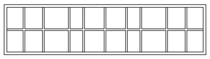
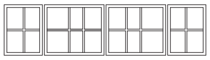
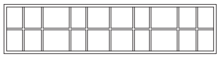
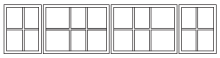
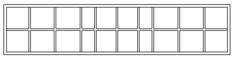
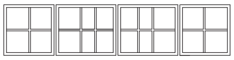
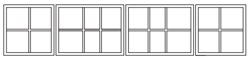
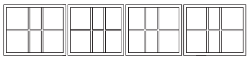
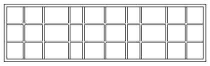
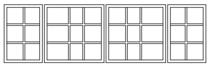
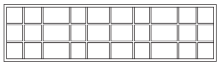
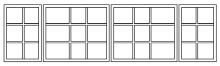
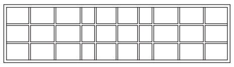
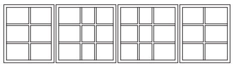
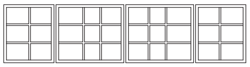
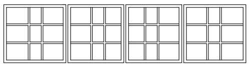
Widths

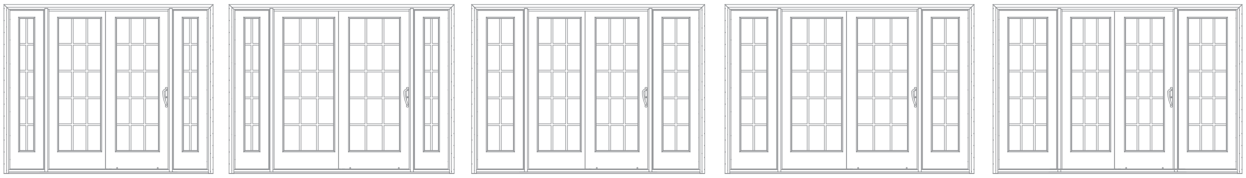
Heights

Unit Dimension	Rough Opening	Call Size	8'–6 1/4"	9'–2 1/4"	9'–6 1/4"	10'–2 1/4"	10'–2 1/4"
			8'–7 1/4"	9'–3 1/4"	9'–7 1/4"	10'–3 1/4"	10'–3 1/4"
			8–4	9–0	9–4	10–0/20	10–0
6–11 1/2"	7–0"	6–10	 MRAFSDR84610	 MRAFSDR90610	 MRAFSDR94610	 MRAFSDR100/20S610	 MRAFSDR100610
8–3 1/2"	8–4"	8–0	 MRAFSDR8480	 MRAFSDR9080	 MRAFSDR9480	 MRAFSDR100/20S80	 MRAFSDR10080

Widths

Heights

Unit Dimension	Rough Opening	Call Size	8'–6 1/4"	9'–2 1/4"	9'–6 1/4"	10'–2 1/4"	10'–2 1/4"
			8'–7 1/4"	9'–3 1/4"	9'–7 1/4"	10'–3 1/4"	10'–3 1/4"
			8–4	9–0	9–4	10–0/20	10–0
1–1 3/8	1–1 7/8"	1–0	 MRAFSDR8410TN (4 PANEL)	 MRAFSDR9010TN (4 PANEL)	 MRAFSDR9410TN (4 PANEL)	 MRAFSDR100/20S10TN (4 PANEL)	 MRAFSDR10010TN (4 PANEL)
1–3 3/8"	1–3 7/8"	1–2	 MRAFSDR8412TN (4 PANEL)	 MRAFSDR9012TN (4 PANEL)	 MRAFSDR9412TN (4 PANEL)	 MRAFSDR100/20S12TN (4 PANEL)	 MRAFSDR10012TN (4 PANEL)
1–7 3/8"	1–7 7/8"	1–6	 MRAFSDR8416TN  MRAFSDR8416TN (4 PANEL)	 MRAFSDR9016TN  MRAFSDR9016TN (4 PANEL)	 MRAFSDR9416TN  MRAFSDR9416TN (4 PANEL)	 MRAFSDR100/20S16TN (4 PANEL)	 MRAFSDR10016TN (4 PANEL)
2–1 3/8"	2–1 7/8"	2–0	 MRAFSDR8420TN  MRAFSDR8420TN (4 PANEL)	 MRAFSDR9020TN  MRAFSDR9020TN (4 PANEL)	 MRAFSDR9420TN  MRAFSDR9420TN (4 PANEL)	 MRAFSDR100/20S20TN (4 PANEL)	 MRAFSDR10020TN (4 PANEL)
2–5 3/8"	2–5 7/8"	2–4	 MRAFSDR8424TN  MRAFSDR8424TN (4 PANEL)	 MRAFSDR9024TN  MRAFSDR9024TN (4 PANEL)	 MRAFSDR9424TN  MRAFSDR9424TN (4 PANEL)	 MRAFSDR100/20S24TN (4 PANEL)	 MRAFSDR10024TN (4 PANEL)



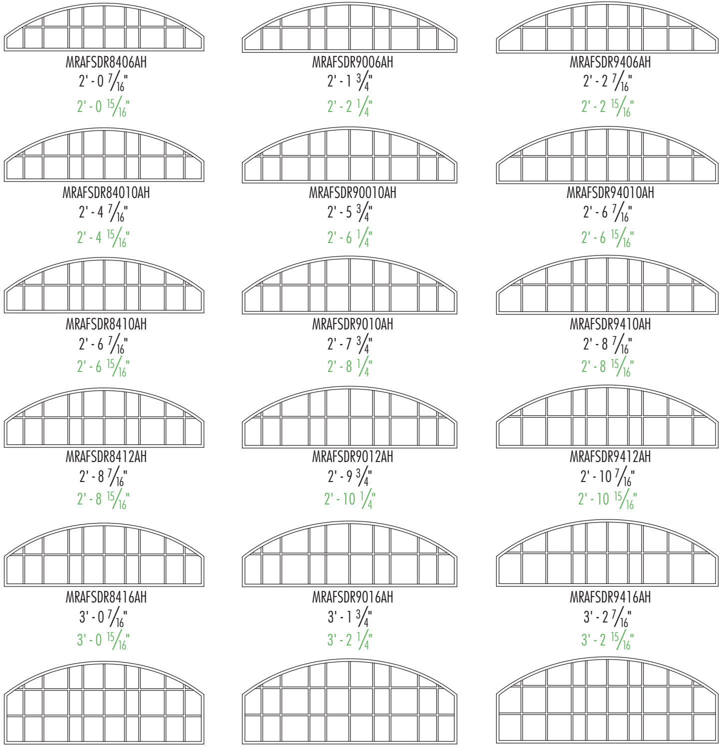
Standard Colonial Grille Pattern

Widths

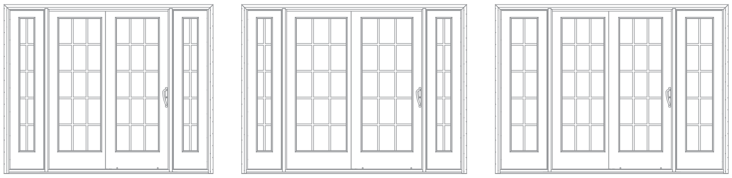
Heights

Unit height dimension is listed first under individual windows

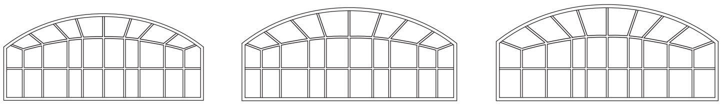
Rough Opening height dimension is listed second under individual windows



Unit Dimension	8'–6 1/4"	9'–2 1/4"	8'–6 1/4"
Rough Opening	8'–7 1/4"	9'–3 1/4"	9'–7 1/4"
Call Size	8–4	9–0	9–4
0–6	MRAFSDR8406AH 2' - 0 7/16" 2' - 0 15/16"	MRAFSDR9006AH 2' - 1 3/4" 2' - 2 1/4"	MRAFSDR9406AH 2' - 2 7/16" 2' - 2 15/16"
0–10	MRAFSDR84010AH 2' - 4 7/16" 2' - 4 15/16"	MRAFSDR90010AH 2' - 5 3/4" 2' - 6 1/4"	MRAFSDR94010AH 2' - 6 7/16" 2' - 6 15/16"
1–0	MRAFSDR8410AH 2' - 6 7/16" 2' - 6 15/16"	MRAFSDR9010AH 2' - 7 3/4" 2' - 8 1/4"	MRAFSDR9410AH 2' - 8 7/16" 2' - 8 15/16"
1–2	MRAFSDR8412AH 2' - 8 7/16" 2' - 8 15/16"	MRAFSDR9012AH 2' - 9 3/4" 2' - 10 1/4"	MRAFSDR9412AH 2' - 10 7/16" 2' - 10 15/16"
1–6	MRAFSDR8416AH 3' - 0 7/16" 3' - 0 15/16"	MRAFSDR9016AH 3' - 1 3/4" 3' - 2 1/4"	MRAFSDR9416AH 3' - 2 7/16" 3' - 2 15/16"
2–0	MRAFSDR8420AH 3' - 6 7/16" 3' - 6 15/16"	MRAFSDR9020AH 3' - 7 3/4" 3' - 8 1/4"	MRAFSDR9420AH 3' - 8 7/16" 3' - 8 15/16"

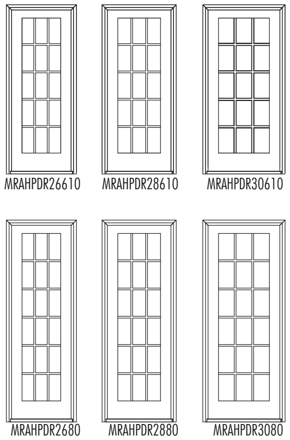


Optional Renaissance Grille Pattern



Hinged Doors – Single Panel Operating & Fixed Units

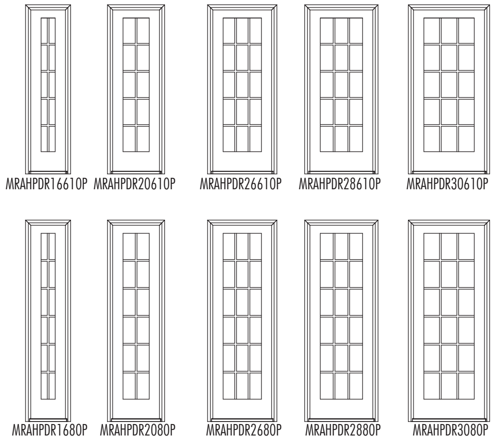
Operating Unit Widths



Heights

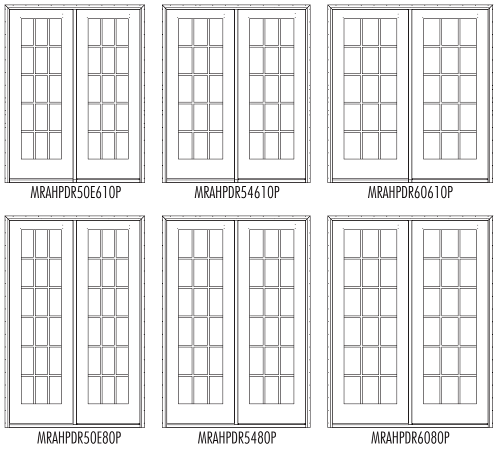
		Unit Dimension	2'–7 11/16"	2'–9 11/16"	3'–1 11/16"
		Rough Opening	2'–8 11/16"	2'–10 11/16"	3'–2 11/16"
		Call Size	2–6	2–8	3–0
6–10 11/16"	6–11 3/16"	6–10	MRAHPDR26610	MRAHPDR28610	MRAHPDR30610
8–2 11/16"	8–3 3/16"	8–0	MRAHPDR2680	MRAHPDR2880	MRAHPDR3080

Fixed Unit Widths



		Unit Dimension	1'–7 5/8"	2'–1 5/8"	2'–7 5/8"	2'–9 5/8"	3'–1 5/8"
		Rough Opening	1'–8 5/8"	2'–2 5/8"	2'–8 5/8"	2'–10 5/8"	3'–2 5/8"
		Call Size	1–6	2–0	2–6	2–8	3–0
6–10 11/16"	6–11 3/16"	6–10	MRAHPDR16610P	MRAHPDR20610P	MRAHPDR26610P	MRAHPDR28610P	MRAHPDR30610P
8–2 11/16"	8–3 3/16"	8–0	MRAHPDR1680P	MRAHPDR2080P	MRAHPDR2680P	MRAHPDR2880P	MRAHPDR3080P

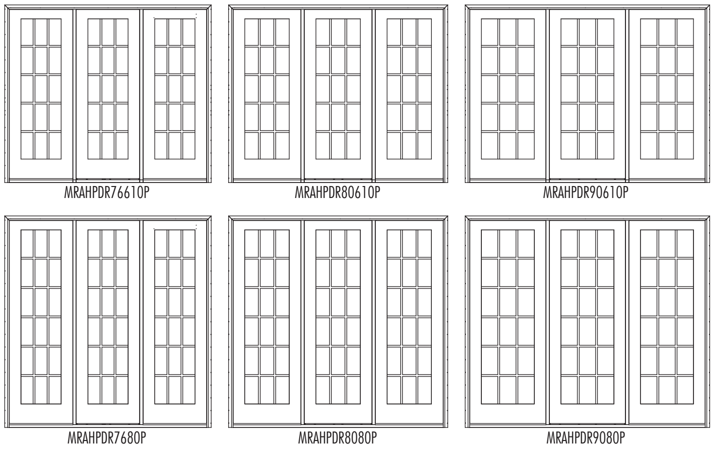
Twin Panel Fixed Unit Widths



Heights

		Unit Dimension	5'–3 1/4"	5'–7 1/4"	6'–3 1/4"
		Rough Opening	5'–4 1/4"	5'–8 1/4"	6'–4 1/4"
		Call Size	5–0	5–4	6–0
6–10 11/16"	6–11 3/16"	6–10	MRAHPDR50E610P	MRAHPDR54610P	MRAHPDR60610P
8–2 11/16"	8–3 3/16"	8–0	MRAHPDR50E80P	MRAHPDR5480P	MRAHPDR6080P

Triple Panel Fixed Unit Widths



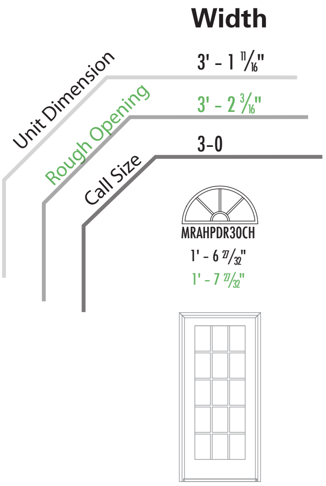
		Unit Dimension	7'–10 7/8"	8'–4 7/8"	9'–4 7/8"
		Rough Opening	7'–11 7/8"	8'–5 7/8"	9'–5 7/8"
		Call Size	7–6	8–0	9–0
6–10 11/16"	6–11 3/16"	6–10	MRAHPDR76610P	MRAHPDR80610P	MRAHPDR90610P
8–2 11/16"	8–3 3/16"	8–0	MRAHPDR7680P	MRAHPDR8080P	MRAHPDR9080P

Hinged Doors – Single, Twin & Triple Panel Transom & Circle Head Units

Widths

Unit Dimension	Rough Opening	Call Size	1-6	2-0	2-6	2-8	3-0
		Unit Dimension	1'-7 11/16"	2'-1 11/16"	2'-7 11/16"	2'-9 11/16"	3'-1 11/16"
		Rough Opening	1'-8 11/16"	2'-2 11/16"	2'-8 11/16"	2'-10 11/16"	3'-2 11/16"
1-1 3/8	1-1 7/8"	1-0	MRAHPDR1610TN	MRAHPDR2010TN	MRAHPDR2610TN	MRAHPDR2810TN	MRAHPDR3010TN
1-3 3/8"	1-3 7/8"	1-2	MRAHPDR1612TN	MRAHPDR2012TN	MRAHPDR2612TN	MRAHPDR2812TN	MRAHPDR3012TN
1-7 3/8"	1-7 7/8"	1-6	MRAHPDR1616TN	MRAHPDR2016TN	MRAHPDR2616TN	MRAHPDR2816TN	MRAHPDR3016TN
2-1 3/8"	2-1 7/8"	2-0	MRAHPDR1620TN	MRAHPDR2020TN	MRAHPDR2620TN	MRAHPDR2820TN	MRAHPDR3020TN
2-5 3/8"	2-5 7/8"	2-4	MRAHPDR1624TN	MRAHPDR2024TN	MRAHPDR2624TN	MRAHPDR2824TN	MRAHPDR3024TN

Heights



Width

Unit Dimension	3' - 1 11/16"
Rough Opening	3' - 2 3/16"
Call Size	3-0
	MRAHPDR30CH
	1' - 6 27/32"
	1' - 7 27/32"

Widths

Unit Dimension	Rough Opening	Call Size	5-0	5-4	6-0	7-6	8-0	9-0
		Unit Dimension	5'-3 5/16"	5'-7 5/16"	6'-3 5/16"	7'-10 15/16"	8'-4 15/16"	9'-4 15/16"
		Rough Opening	5'-4 5/16"	5'-8 5/16"	6'-4 5/16"	7'-11 15/16"	8'-5 15/16"	9'-5 15/16"
1-1 3/8	1-1 7/8"	1-0	MRAHPDR5010TN	MRAHPDR5410TN	MRAHPDR6010TN	MRAHPDR7610TNP	MRAHPDR8010TNP	MRAHPDR9010TNP
			MRAHPDR5410TN (2 PANEL)	MRAHPDR5410TN (2 PANEL)	MRAHPDR6010TN (2 PANEL)	MRAHPDR7610TNP	MRAHPDR8010TNP	MRAHPDR9010TNP
1-3 3/8"	1-3 7/8"	1-2	MRAHPDR5012TN	MRAHPDR5412TN	MRAHPDR6012TN	MRAHPDR7612TNP	MRAHPDR8012TNP	MRAHPDR9012TNP
			MRAHPDR5012TN (2 PANEL)	MRAHPDR5412TN (2 PANEL)	MRAHPDR6012TN (2 PANEL)	MRAHPDR7612TNP	MRAHPDR8012TNP	MRAHPDR9012TNP
1-7 3/8"	1-7 7/8"	1-6	MRAHPDR5016TN	MRAHPDR5416TN	MRAHPDR6016TN	MRAHPDR7616TNP	MRAHPDR8016TNP	MRAHPDR9016TNP
			MRAHPDR5016TN (2 PANEL)	MRAHPDR5416TN (2 PANEL)	MRAHPDR6016TN (2 PANEL)	MRAHPDR7616TNP	MRAHPDR8016TNP	MRAHPDR9016TNP
2-1 3/8"	2-1 7/8"	2-0	MRAHPDR5020TN	MRAHPDR5420TN	MRAHPDR6020TN	MRAHPDR7620TNP	MRAHPDR8020TNP	MRAHPDR9020TNP
			MRAHPDR5020TN (2 PANEL)	MRAHPDR5420TN (2 PANEL)	MRAHPDR6020TN (2 PANEL)	MRAHPDR7620TNP	MRAHPDR8020TNP	MRAHPDR9020TNP
2-5 3/8"	2-5 7/8"	2-4	MRAHPDR5024TN	MRAHPDR5424TN	MRAHPDR6024TN	MRAHPDR7624TNP	MRAHPDR8024TNP	MRAHPDR9024TNP
			MRAHPDR5024TN (2 PANEL)	MRAHPDR5424TN (2 PANEL)	MRAHPDR6024TN (2 PANEL)	MRAHPDR7624TNP	MRAHPDR8024TNP	MRAHPDR9024TNP

Heights

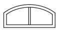
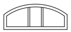
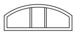
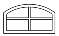
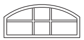
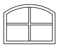
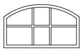
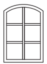
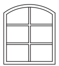
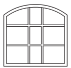
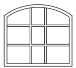
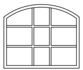
Standard Colonial Grille Pattern

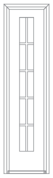
Widths

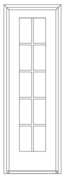
Heights

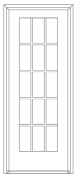
Unit height dimension is listed first under individual windows

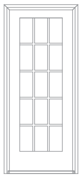
Rough Opening height dimension is listed second under individual windows

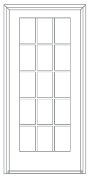
Unit Dimension	1'–7 5/8"	2'–1 5/8"	2'–7 5/8"	2'–9 5/8"	3'–1 5/8"
Rough Opening	1'–8 5/8"	2'–2 5/8"	2'–8 5/8"	2'–10 5/8"	3'–2 5/8"
Call Size	1–6	2–0	2–6	2–8	3–0
0–6	 MRAHPDR1606AHTN 0' - 10 5/8" 0' - 11 1/8"	 MRAHPDR2006AHTN 0' - 11 5/8" 1' - 0 1/8"	 MRAHPDR2606AHTN 1' - 0 5/8" 1' - 1 1/8"	 MRAHPDR2806AHTN 1' - 1" 1' - 1 1/2"	 MRAHPDR3006AHTN 1' - 1 5/8" 1' - 2 1/8"
0–10	 MRAHPDR16010AHTN 1' - 2 5/8" 1' - 3 1/8"	 MRAHPDR20010AHTN 1' - 3 5/8" 1' - 4 1/8"	 MRAHPDR26010AHTN 1' - 4 5/8" 1' - 5 1/8"	 MRAHPDR28010AHTN 1' - 5" 1' - 5 1/2"	 MRAHPDR30010AHTN 1' - 5 5/8" 1' - 6 1/8"
1–0	 MRAHPDR1610AHTN 1' - 4 5/8" 1' - 5 1/8"	 MRAHPDR2010AHTN 1' - 5 5/8" 1' - 6 1/8"	 MRAHPDR2610AHTN 1' - 6 5/8" 1' - 7 1/8"	 MRAHPDR2810AHTN 1' - 7" 1' - 7 1/2"	 MRAHPDR3010AHTN 1' - 7 5/8" 1' - 8 1/8"
1–2	 MRAHPDR1612AHTN 1' - 6 5/8" 1' - 7 1/8"	 MRAHPDR2012AHTN 1' - 7 5/8" 1' - 8 1/8"	 MRAHPDR2612AHTN 1' - 8 5/8" 1' - 9 1/8"	 MRAHPDR2812AHTN 1' - 9" 1' - 9 1/2"	 MRAHPDR3012AHTN 1' - 9 5/8" 1' - 10 1/8"
1–6	 MRAHPDR1616AHTN 1' - 10 5/8" 1' - 11 1/8"	 MRAHPDR2016AHTN 1' - 11 5/8" 2' - 0 1/8"	 MRAHPDR2616AHTN 2' - 0 5/8" 2' - 1 1/8"	 MRAHPDR2816AHTN 2' - 1" 2' - 1 1/2"	 MRAHPDR3016AHTN 2' - 1 5/8" 2' - 2 1/8"
2–0	 MRAHPDR1620AHTN 2' - 4 5/8" 2' - 5 1/8"	 MRAHPDR2020AHTN 2' - 5 5/8" 2' - 6 1/8"	 MRAHPDR2620AHTN 2' - 6 5/8" 2' - 7 1/8"	 MRAHPDR2820AHTN 2' - 7" 2' - 7 1/2"	 MRAHPDR3020AHTN 2' - 7 5/8" 2' - 8 1/8"



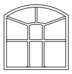


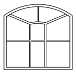


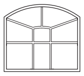




Optional Renaissance Grille Pattern







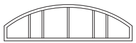
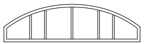
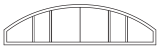
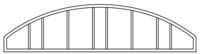
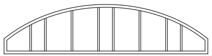
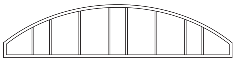
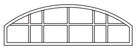
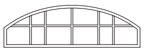
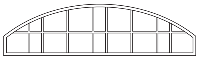
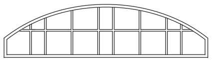
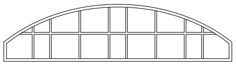
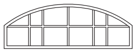
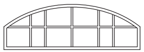
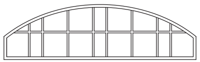
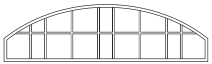
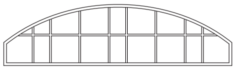
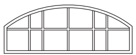
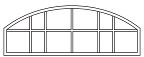
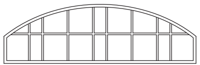
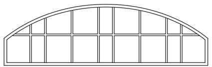
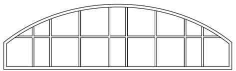
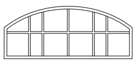
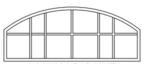
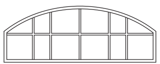
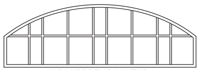
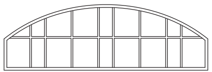
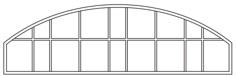
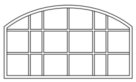
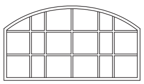
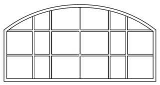
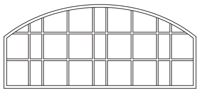
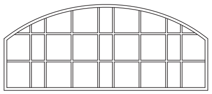
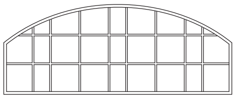
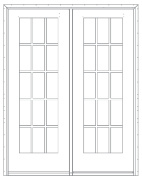
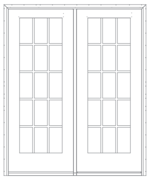
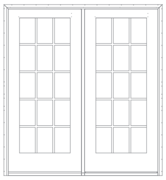
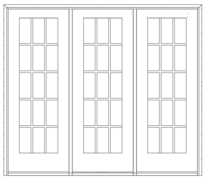
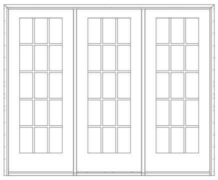
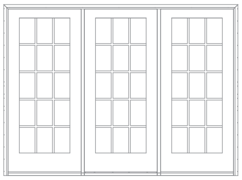
Standard Colonial Grille Pattern

Widths

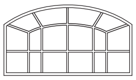
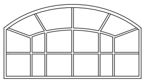
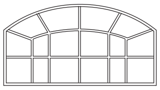
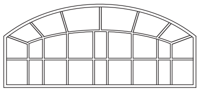
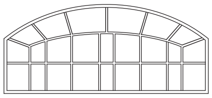
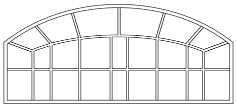
Heights

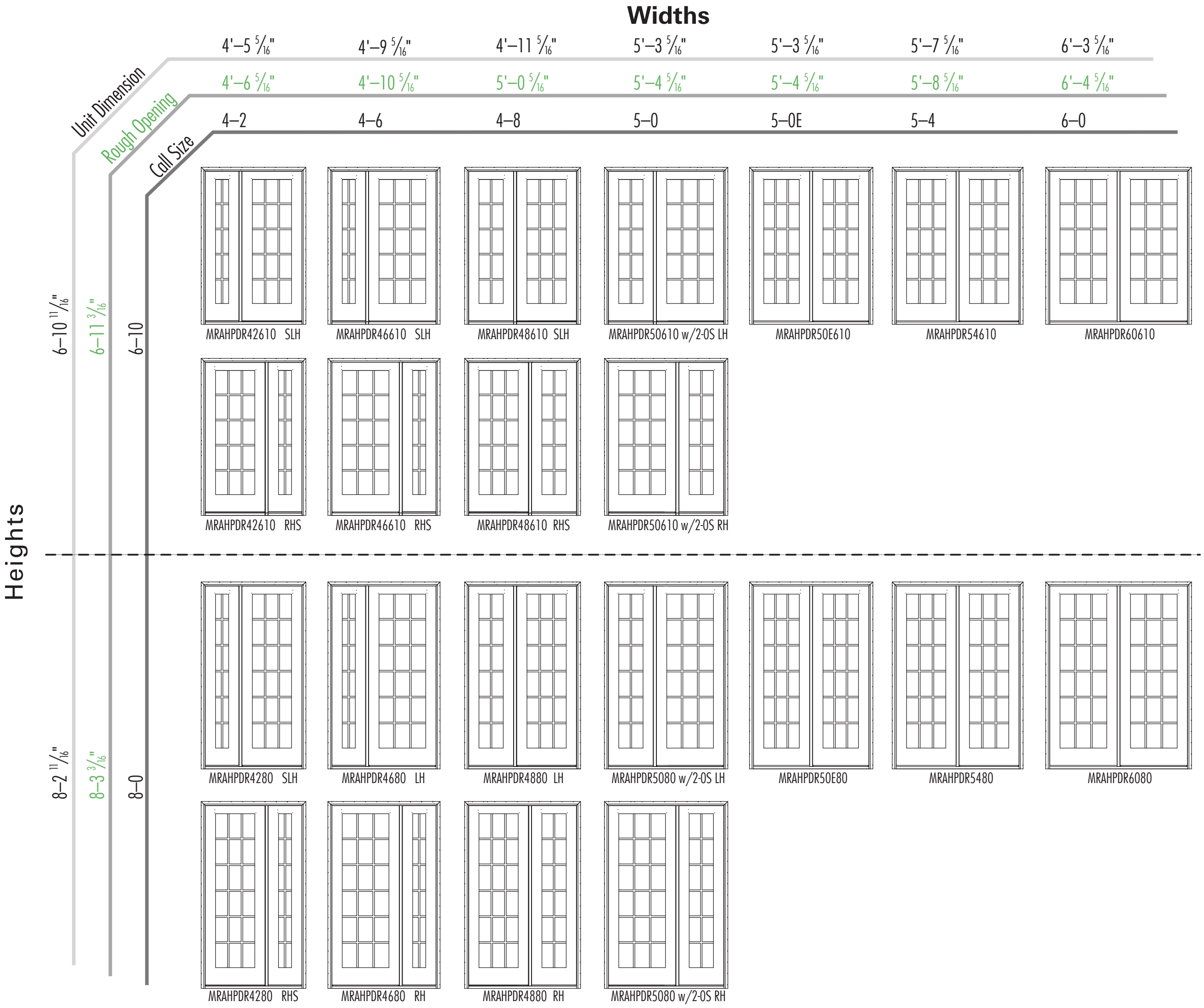
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	5'–3 1/4"	5'–7 1/4"	6'–3 1/4"	7'–10 7/8"	8'–4 7/8"	9'–4 7/8"
Rough Opening	5'–4 1/4"	5'–8 1/4"	6'–4 1/4"	7'–11 7/8"	8'–5 7/8"	9'–5 7/8"
Call Size	5–0	5–4	6–0	7–6	8–0	9–0
0–6	 MRAHPDR5006AHTN 1' - 5 15/16" 1' - 6 7/16"	 MRAHPDR5406AHTN 1' - 6 9/16" 1' - 7 1/16"	 MRAHP60006AH 1' - 7 15/16" 1' - 8 7/16"	 MRAHPDR7606AHTNP 1' - 11 3/16" 1' - 11 11/16"	 MRAHPDR8006AH 2' - 0 3/16" 2' - 0 11/16"	 MRAHPDR9006AH 2' - 2 3/16" 2' - 2 11/16"
0–10	 MRAHPDR50010AHTN 1' - 9 15/16" 1' - 10 7/16"	 MRAHPDR54010AHTN 1' - 10 9/16" 1' - 11 1/16"	 MRAHP60010AH 1' - 11 15/16" 2' - 0 7/16"	 MRAHPDR76010AHTNP 2' - 3 3/16" 2' - 3 11/16"	 MRAHPDR80010AH 2' - 4 3/16" 2' - 4 11/16"	 MRAHPDR90010AH 2' - 6 3/16" 2' - 6 11/16"
1–0	 MRAHPDR5010AHTN 1' - 11 15/16" 2' - 0 7/16"	 MRAHPDR5410AHTN 2' - 0 9/16" 2' - 1 1/16"	 MRAHP6010AH 2' - 1 15/16" 2' - 2 7/16"	 MRAHPDR7610AHTNP 2' - 5 3/16" 2' - 5 11/16"	 MRAHPDR8010AH 2' - 6 3/16" 2' - 6 11/16"	 MRAHPDR9010AH 2' - 8 3/16" 2' - 8 11/16"
1–2	 MRAHPDR5012AHTN 2' - 1 15/16" 2' - 2 7/16"	 MRAHPDR5412AHTN 2' - 2 9/16" 2' - 3 1/16"	 MRAHP6012AH 2' - 3 15/16" 2' - 4 7/16"	 MRAHPDR7612AHTNP 2' - 7 3/16" 2' - 7 11/16"	 MRAHPDR8012AH 2' - 8 3/16" 2' - 8 11/16"	 MRAHPDR8012AH 2' - 10 3/16" 2' - 10 11/16"
1–6	 MRAHPDR5016AHTN 2' - 5 15/16" 2' - 6 7/16"	 MRAHPDR5416AHTN 2' - 6 9/16" 2' - 7 1/16"	 MRAHP6016AH 2' - 7 15/16" 2' - 8 7/16"	 MRAHPDR7616AHTNP 2' - 11 3/16" 2' - 11 11/16"	 MRAHPDR8016AH 3' - 0 3/16" 3' - 0 11/16"	 MRAHPDR9016AH 3' - 2 3/16" 3' - 2 11/16"
2–0	 MRAHPDR5020AHTN 2' - 11 15/16" 3' - 0 7/16"	 MRAHPDR5420AHTN 3' - 0 9/16" 3' - 1 1/16"	 MRAHP6020AH 3' - 1 15/16" 3' - 2 7/16"	 MRAHPDR7620AHTNP 3' - 5 3/16" 3' - 5 11/16"	 MRAHPDR8020AH 3' - 6 3/16" 3' - 6 11/16"	 MRAHPDR9020AH 3' - 8 3/16" 3' - 8 11/16"
						

Optional Renaissance Grille Pattern


Widths
Unit Dimension
Rough Opening
Call Size
4'–5 5/16"
4'–6 5/16"
4–2
4'–9 5/16"
4'–10 5/16"
4–6
4'–11 5/16"
5'–0 5/16"
4–8
5'–3 5/16"
5'–4 5/16"
5–0
5'–3 5/16"
5'–4 5/16"
5–0E
5'–7 5/16"
5'–8 5/16"
5–4
6'–3 5/16"
6'–4 5/16"
6–0
Heights
6–10 11/16"
6–11 3/16"
6–10
MRAHPDR42610 SLH
MRAHPDR46610 SLH
MRAHPDR48610 SLH
MRAHPDR50610 w/2-OS LH
MRAHPDR50E610
MRAHPDR54610
MRAHPDR60610
MRAHPDR42610 RHS
MRAHPDR46610 RHS
MRAHPDR48610 RHS
MRAHPDR50610 w/2-OS RH
8–2 11/16"
8–3 3/16"
8–0
MRAHPDR4280 SLH
MRAHPDR4680 LH
MRAHPDR4880 LH
MRAHPDR5080 w/2-OS LH
MRAHPDR50E80
MRAHPDR5480
MRAHPDR6080
MRAHPDR4280 RHS
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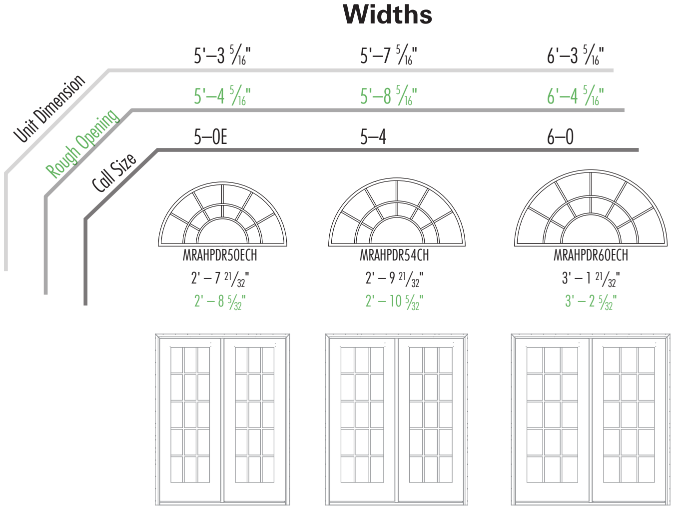
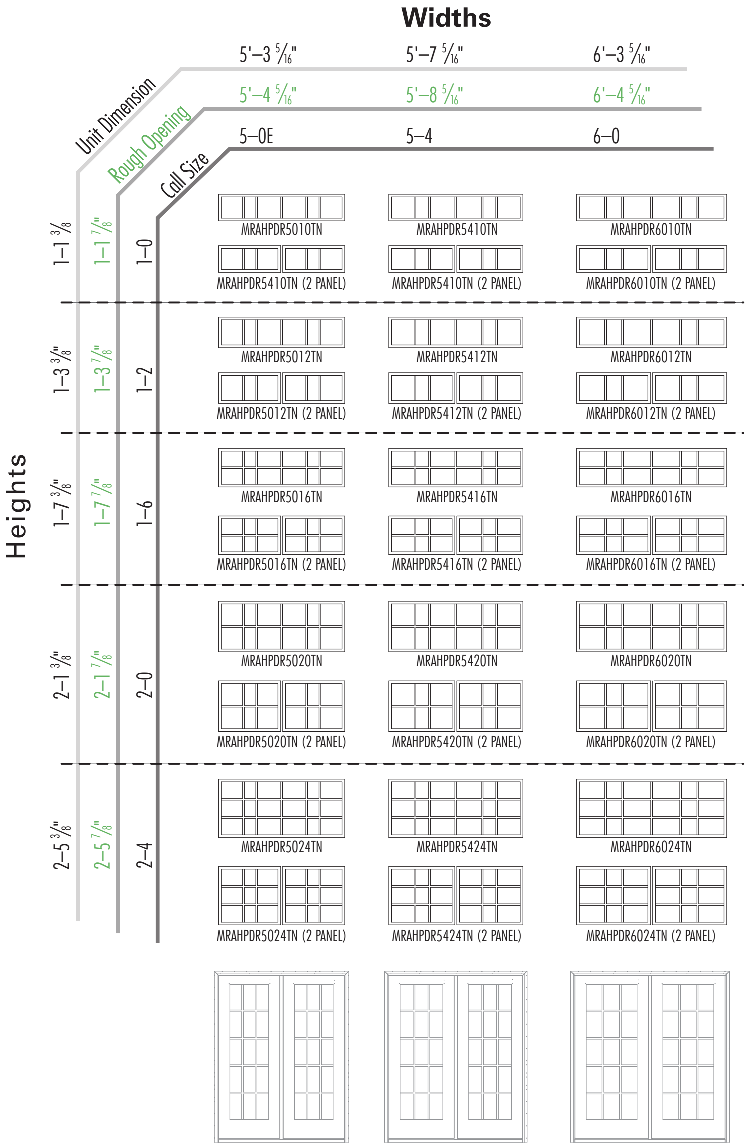
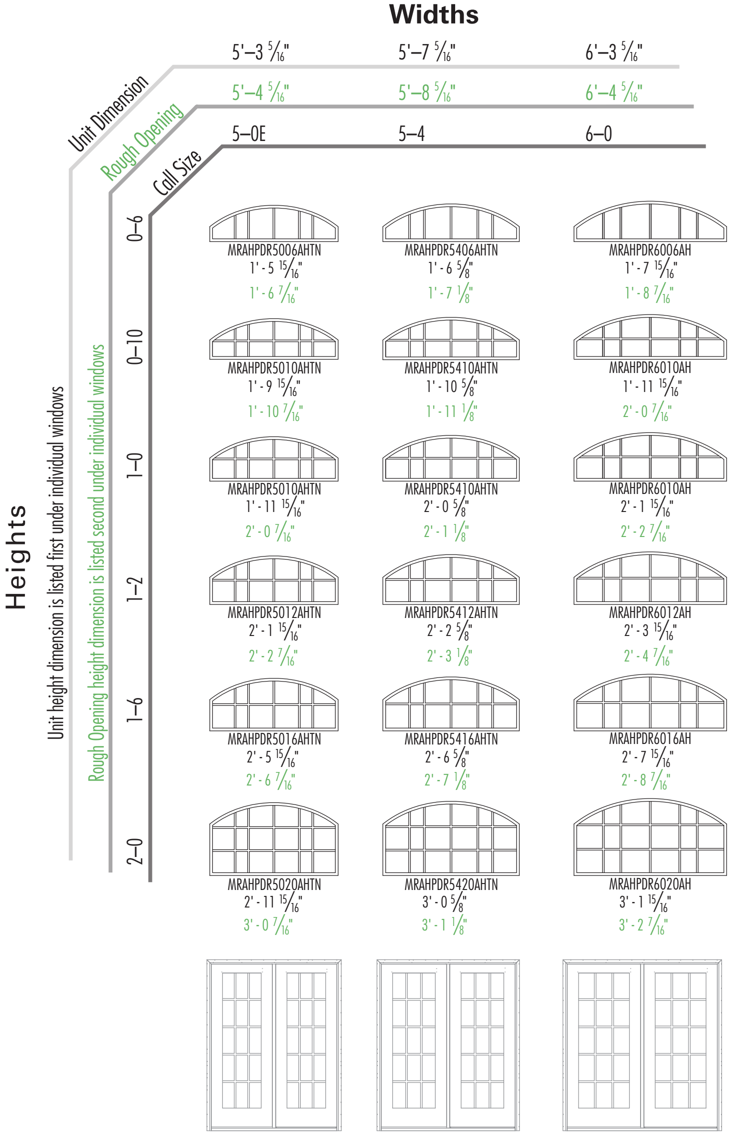
MRAHPDR4880 RH
MRAHPDR5080 w/2-OS RH


Widths
Unit Dimension
Rough Opening
Call Size
5'–3 5/16"
5'–4 5/16"
5–0E
5'–7 5/16"
5'–8 5/16"
5–4
6'–3 5/16"
6'–4 5/16"
6–0
MRAHPDR50ECH
2' – 7 21/32"
2' – 8 5/32"
MRAHPDR54CH
2' – 9 21/32"
2' – 10 5/32"
MRAHPDR60ECH
3' – 1 21/32"
3' – 2 5/32"



			5'–3 5/16"	5'–7 5/16"	6'–3 5/16"
			5'–4 5/16"	5'–8 5/16"	6'–4 5/16"
Unit Dimension	Rough Opening	Call Size	5–0E	5–4	6–0
1–1 3/8	1–1 7/8"	1–0	MRAHPDR5010TN MRAHPDR5410TN (2 PANEL)	MRAHPDR5410TN MRAHPDR5410TN (2 PANEL)	MRAHPDR6010TN MRAHPDR6010TN (2 PANEL)
1–3 3/8"	1–3 7/8"	1–2	MRAHPDR5012TN MRAHPDR5012TN (2 PANEL)	MRAHPDR5412TN MRAHPDR5412TN (2 PANEL)	MRAHPDR6012TN MRAHPDR6012TN (2 PANEL)
1–7 3/8"	1–7 7/8"	1–6	MRAHPDR5016TN MRAHPDR5016TN (2 PANEL)	MRAHPDR5416TN MRAHPDR5416TN (2 PANEL)	MRAHPDR6016TN MRAHPDR6016TN (2 PANEL)
2–1 3/8"	2–1 7/8"	2–0	MRAHPDR5020TN MRAHPDR5020TN (2 PANEL)	MRAHPDR5420TN MRAHPDR5420TN (2 PANEL)	MRAHPDR6020TN MRAHPDR6020TN (2 PANEL)
2–5 3/8"	2–5 7/8"	2–4	MRAHPDR5024TN MRAHPDR5024TN (2 PANEL)	MRAHPDR5424TN MRAHPDR5424TN (2 PANEL)	MRAHPDR6024TN MRAHPDR6024TN (2 PANEL)

Standard Colonial Grille Pattern

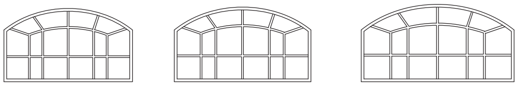


Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

	5'–3 5/16"	5'–7 5/16"	6'–3 5/16"
	5'–4 5/16"	5'–8 5/16"	6'–4 5/16"
Call Size	5–0E	5–4	6–0
0–6	MRAHPDR5006AHTN 1' - 5 15/16" 1' - 6 7/16"	MRAHPDR5406AHTN 1' - 6 5/8" 1' - 7 1/8"	MRAHPDR6006AH 1' - 7 15/16" 1' - 8 7/16"
0–10	MRAHPDR5010AHTN 1' - 9 15/16" 1' - 10 7/16"	MRAHPDR5410AHTN 1' - 10 5/8" 1' - 11 1/8"	MRAHPDR6010AH 1' - 11 15/16" 2' - 0 7/16"
1–0	MRAHPDR5010AHTN 1' - 11 15/16" 2' - 0 7/16"	MRAHPDR5410AHTN 2' - 0 5/8" 2' - 1 1/8"	MRAHPDR6010AH 2' - 1 15/16" 2' - 2 7/16"
1–2	MRAHPDR5012AHTN 2' - 1 15/16" 2' - 2 7/16"	MRAHPDR5412AHTN 2' - 2 5/8" 2' - 3 1/8"	MRAHPDR6012AH 2' - 3 15/16" 2' - 4 7/16"
1–6	MRAHPDR5016AHTN 2' - 5 15/16" 2' - 6 7/16"	MRAHPDR5416AHTN 2' - 6 5/8" 2' - 7 1/8"	MRAHPDR6016AH 2' - 7 15/16" 2' - 8 7/16"
2–0	MRAHPDR5020AHTN 2' - 11 15/16" 3' - 0 7/16"	MRAHPDR5420AHTN 3' - 0 5/8" 3' - 1 1/8"	MRAHPDR6020AH 3' - 1 15/16" 3' - 2 7/16"

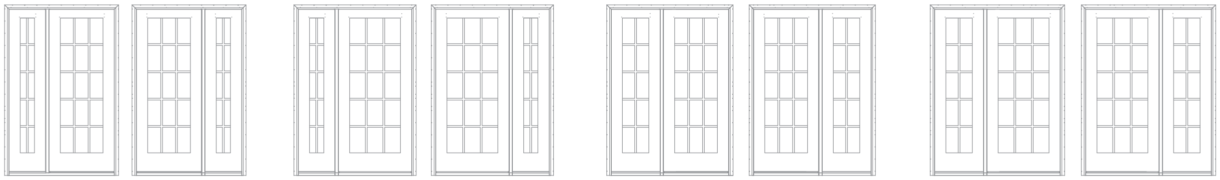
Optional Renaissance Grille Pattern



Widths

Heights

		Unit Dimension	4'–5 5/16"	4'–9 5/16"	4'–11 5/16"	5'–3 5/16"
		Rough Opening	4'–6 5/16"	4'–10 5/16"	5'–0 5/16"	5'–4 5/16"
Unit Dimension	Rough Opening	Call Size	4–2	4–6	4–8	5–0
1–1 3/8	1–1 7/8"	1–0	MRAHPDR4210TN MRAHPDR4210TN MRAHPDR4210TN S(L/R) MRAHPDR4210TN (L/R)S	MRAHPDR4610TN MRAHPDR4610TN MRAHPDR4610TN S(L/R) MRAHPDR4610TN (L/R)S	MRAHPDR4810TN MRAHPDR4610TN MRAHPDR4810TN (L/R)S MRAHPDR4810TN (L/R)S	MRAHPDR5010TN MRAHPDR5010TN MRAHPDR5010TN S(L/R) MRAHPDR5010TN (L/R)S
1–3 3/8"	1–3 7/8"	1–2	MRAHPDR4212TN MRAHPDR4212TN MRAHPDR4212TN S(L/R) MRAHPDR4212TN (L/R)S	MRAHPDR4612TN MRAHPDR4612TN MRAHPDR4612TN S(L/R) MRAHPDR4612TN (L/R)S	MRAHPDR4812TN MRAHPDR4612TN MRAHPDR4812TN (L/R)S MRAHPDR4812TN (L/R)S	MRAHPDR5012TN MRAHPDR5012TN MRAHPDR5012TN S(L/R) MRAHPDR5012TN (L/R)S
1–7 3/8	1–7 7/8"	1–6	MRAHPDR4216TN MRAHPDR4216TN MRAHPDR4216TN S(L/R) MRAHPDR4216TN (L/R)S	MRAHPDR4616TN MRAHPDR4616TN MRAHPDR4616TN S(L/R) MRAHPDR4616TN (L/R)S	MRAHPDR4816TN MRAHPDR4616TN MRAHPDR4816TN (L/R)S MRAHPDR4816TN (L/R)S	MRAHPDR5016TN MRAHPDR5016TN MRAHPDR5016TN S(L/R) MRAHPDR5016TN (L/R)S
2–1 3/8"	2–1 7/8"	2–0	MRAHPDR4220TN MRAHPDR4220TN MRAHPDR4220TN S(L/R) MRAHPDR4220TN (L/R)S	MRAHPDR4620TN MRAHPDR4620TN MRAHPDR4620TN S(L/R) MRAHPDR4620TN (L/R)S	MRAHPDR4820TN MRAHPDR4620TN MRAHPDR4820TN (L/R)S MRAHPDR4820TN (L/R)S	MRAHPDR5020TN MRAHPDR5020TN MRAHPDR5020TN S(L/R) MRAHPDR5020TN (L/R)S
2–5 3/8"	2–5 7/8"	2–4	MRAHPDR4224TN MRAHPDR4224TN MRAHPDR4224TN S(L/R) MRAHPDR4224TN (L/R)S	MRAHPDR4624TN MRAHPDR4624TN MRAHPDR4624TN S(L/R) MRAHPDR4624TN (L/R)S	MRAHPDR4824TN MRAHPDR4624TN MRAHPDR4824TN (L/R)S MRAHPDR4824TN (L/R)S	MRAHPDR5024TN MRAHPDR5024TN MRAHPDR5024TN S(L/R) MRAHPDR5024TN (L/R)S



Hinged Doors – 2-Panel Arch Transom Units

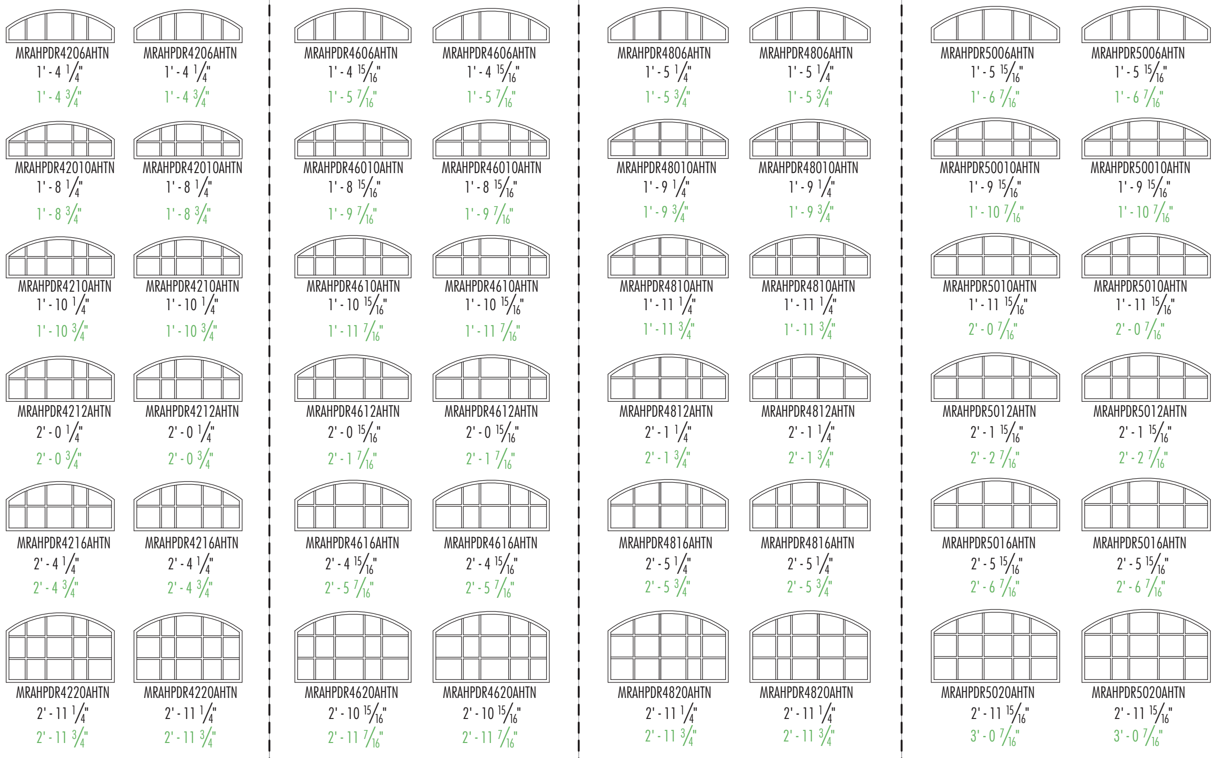
Standard Colonial Grille Pattern

Widths

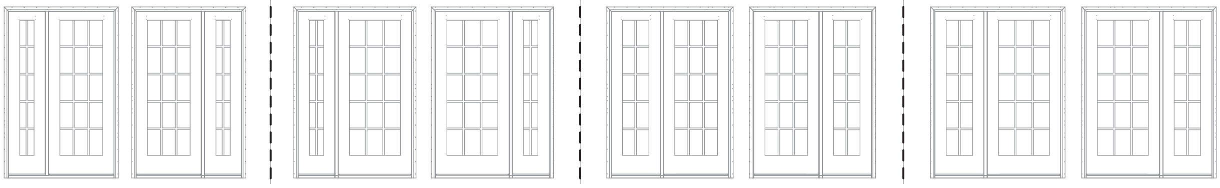
Heights

Unit height dimension is listed first under individual windows

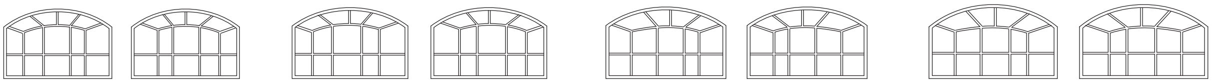
Rough Opening height dimension is listed second under individual windows



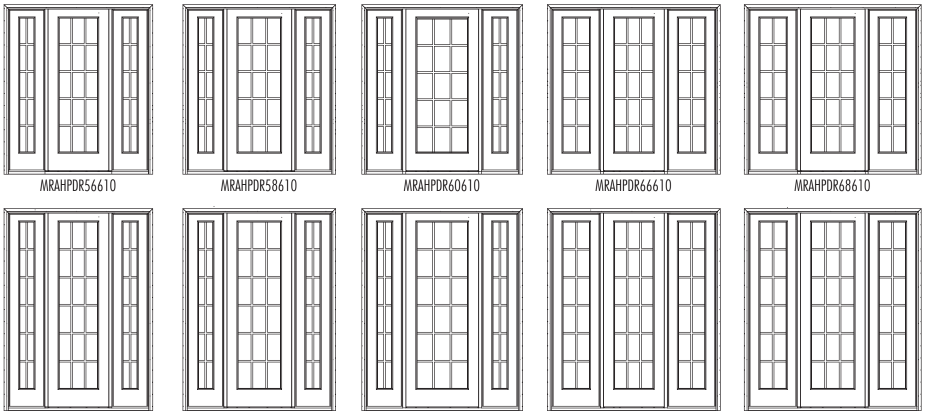
Unit Dimension	4'–5 5/16"		4'–9 5/16"		4'–11 5/16"		5'–3 5/16"	
Rough Opening	4'–6 5/16"		4'–10 5/16"		5'–0 5/16"		5'–4 5/16"	
Call Size	4–2		4–6		4–8		5–0	
0–6	MRAHPDR4206AHTN 1' - 4 1/4" 1' - 4 3/4"	MRAHPDR4206AHTN 1' - 4 1/4" 1' - 4 3/4"	MRAHPDR4606AHTN 1' - 4 15/16" 1' - 5 7/16"	MRAHPDR4606AHTN 1' - 4 15/16" 1' - 5 7/16"	MRAHPDR4806AHTN 1' - 5 1/4" 1' - 5 3/4"	MRAHPDR4806AHTN 1' - 5 1/4" 1' - 5 3/4"	MRAHPDR5006AHTN 1' - 5 15/16" 1' - 6 7/16"	MRAHPDR5006AHTN 1' - 5 15/16" 1' - 6 7/16"
0–10	MRAHPDR42010AHTN 1' - 8 1/4" 1' - 8 3/4"	MRAHPDR42010AHTN 1' - 8 1/4" 1' - 8 3/4"	MRAHPDR46010AHTN 1' - 8 15/16" 1' - 9 7/16"	MRAHPDR46010AHTN 1' - 8 15/16" 1' - 9 7/16"	MRAHPDR48010AHTN 1' - 9 1/4" 1' - 9 3/4"	MRAHPDR48010AHTN 1' - 9 1/4" 1' - 9 3/4"	MRAHPDR50010AHTN 1' - 9 15/16" 1' - 10 7/16"	MRAHPDR50010AHTN 1' - 9 15/16" 1' - 10 7/16"
1–0	MRAHPDR4210AHTN 1' - 10 1/4" 1' - 10 3/4"	MRAHPDR4210AHTN 1' - 10 1/4" 1' - 10 3/4"	MRAHPDR4610AHTN 1' - 10 15/16" 1' - 11 7/16"	MRAHPDR4610AHTN 1' - 10 15/16" 1' - 11 7/16"	MRAHPDR4810AHTN 1' - 11 1/4" 1' - 11 3/4"	MRAHPDR4810AHTN 1' - 11 1/4" 1' - 11 3/4"	MRAHPDR5010AHTN 1' - 11 15/16" 2' - 0 7/16"	MRAHPDR5010AHTN 1' - 11 15/16" 2' - 0 7/16"
1–2	MRAHPDR4212AHTN 2' - 0 1/4" 2' - 0 3/4"	MRAHPDR4212AHTN 2' - 0 1/4" 2' - 0 3/4"	MRAHPDR4612AHTN 2' - 0 15/16" 2' - 1 7/16"	MRAHPDR4612AHTN 2' - 0 15/16" 2' - 1 7/16"	MRAHPDR4812AHTN 2' - 1 1/4" 2' - 1 3/4"	MRAHPDR4812AHTN 2' - 1 1/4" 2' - 1 3/4"	MRAHPDR5012AHTN 2' - 1 15/16" 2' - 2 7/16"	MRAHPDR5012AHTN 2' - 1 15/16" 2' - 2 7/16"
1–6	MRAHPDR4216AHTN 2' - 4 1/4" 2' - 4 3/4"	MRAHPDR4216AHTN 2' - 4 1/4" 2' - 4 3/4"	MRAHPDR4616AHTN 2' - 4 15/16" 2' - 5 7/16"	MRAHPDR4616AHTN 2' - 4 15/16" 2' - 5 7/16"	MRAHPDR4816AHTN 2' - 5 1/4" 2' - 5 3/4"	MRAHPDR4816AHTN 2' - 5 1/4" 2' - 5 3/4"	MRAHPDR5016AHTN 2' - 5 15/16" 2' - 6 7/16"	MRAHPDR5016AHTN 2' - 5 15/16" 2' - 6 7/16"
2–0	MRAHPDR4220AHTN 2' - 11 1/4" 2' - 11 3/4"	MRAHPDR4220AHTN 2' - 11 1/4" 2' - 11 3/4"	MRAHPDR4620AHTN 2' - 10 15/16" 2' - 11 7/16"	MRAHPDR4620AHTN 2' - 10 15/16" 2' - 11 7/16"	MRAHPDR4820AHTN 2' - 11 1/4" 2' - 11 3/4"	MRAHPDR4820AHTN 2' - 11 1/4" 2' - 11 3/4"	MRAHPDR5020AHTN 2' - 11 15/16" 3' - 0 7/16"	MRAHPDR5020AHTN 2' - 11 15/16" 3' - 0 7/16"



Optional Renaissance Grille Pattern



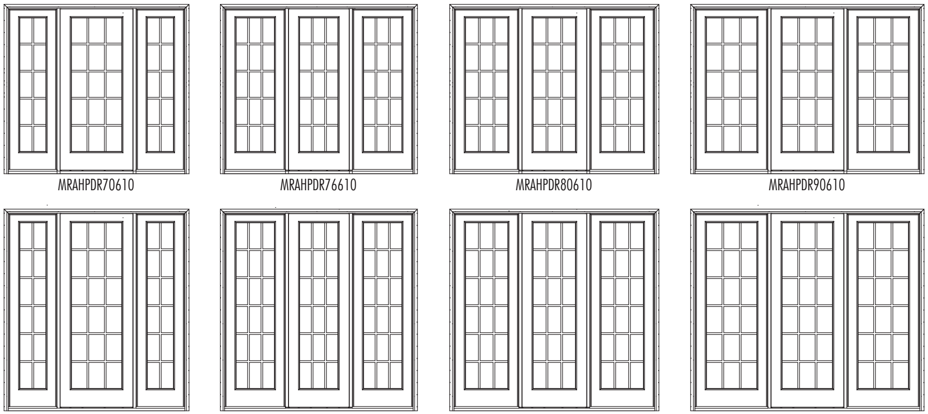
Hinged Doors – 3-Panel Operating & Matching Fixed Units



Widths

Heights

		Unit Dimension	5'–10 15/16"	6'–0 15/16"	6'–4 15/16"	6'–10 15/16"	7'–0 15/16"
		Rough Opening	5'–11 15/16"	6'–1 15/16"	6'–5 15/16"	6'–11 15/16"	7'–1 15/16"
Unit Dimension	Rough Opening	Call Size	5–6	5–8	6–0	6–6	6–8
6–10 11/16"	6–11 3/16"	6–10	MRAHPDR56610	MRAHPDR58610	MRAHPDR60610	MRAHPDR66610	MRAHPDR68610
8–2 11/16"	8–3 3/16"	8–0	MRAHPDR5680	MRAHPDR5880	MRAHPDR6080	MRAHPDR6680	MRAHPDR6880



Widths

Heights

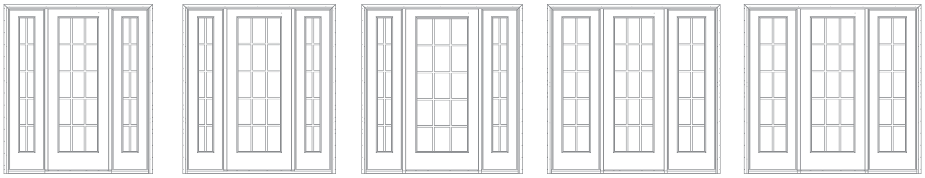
		Unit Dimension	7'–4 15/16"	7'–10 15/16"	8'–4 15/16"	9'–4 15/16"
		Rough Opening	7'–5 15/16"	7'–11 15/16"	8'–5 15/16"	9'–5 15/16"
Unit Dimension	Rough Opening	Call Size	7–0	7–6	8–0	9–0
6–10 11/16"	6–11 3/16"	6–10	MRAHPDR70610	MRAHPDR76610	MRAHPDR80610	MRAHPDR90610
8–2 11/16"	8–3 3/16"	8–0	MRAHPDR7080	MRAHPDR7680	MRAHPDR8080	MRAHPDR9080

Hinged Doors –
3-Panel Transom Units

Widths

Heights

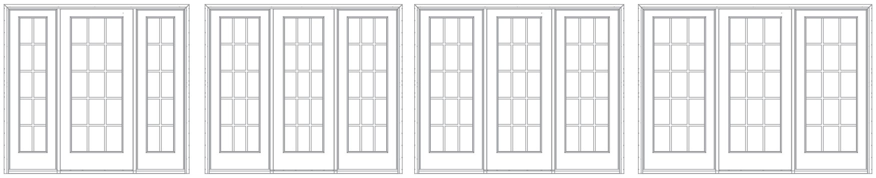
Unit Dimension	Rough Opening	Call Size	5'–10 15/16" / 5'–11 15/16" / 5–6	6'–0 15/16" / 6'–1 15/16" / 5–8	6'–4 15/16" / 6'–5 15/16" / 6–0	6'–10 15/16" / 6'–11 15/16" / 6–6	7'–0 15/16" / 7'–1 15/16" / 6–8
1–1 3/8	1–1 7/8"	1–0	MRAHPDR5610TN MRAHPDR5610TN (3 PANEL)	MRAHPDR5810TN MRAHPDR5810TN (3 PANEL)	MRAHPDR6010TN MRAHPDR6010TN (3 PANEL)	MRAHPDR6610TN MRAHPDR6610TN (3 PANEL)	MRAHPDR6810TN MRAHPDR6810TN (3 PANEL)
1–3 3/8"	1–3 7/8"	1–2	MRAHPDR5612TN MRAHPDR5612TN (3 PANEL)	MRAHPDR5812TN MRAHPDR5812TN (3 PANEL)	MRAHPDR6012TN MRAHPDR6012TN (3 PANEL)	MRAHPDR6612TN MRAHPDR6612TN (3 PANEL)	MRAHPDR6812TN MRAHPDR6812TN (3 PANEL)
1–7 3/8"	1–7 7/8"	1–6	MRAHPDR5616TN MRAHPDR5616TN (3 PANEL)	MRAHPDR5816TN MRAHPDR5816TN (3 PANEL)	MRAHPDR6016TN MRAHPDR6016TN (3 PANEL)	MRAHPDR6616TN MRAHPDR6616TN (3 PANEL)	MRAHPDR6816TN MRAHPDR6816TN (3 PANEL)
2–1 3/8"	2–1 7/8"	2–0	MRAHPDR5620TN MRAHPDR5620TN (3 PANEL)	MRAHPDR5820TN MRAHPDR5820TN (3 PANEL)	MRAHPDR6020TN MRAHPDR6020TN (3 PANEL)	MRAHPDR6620TN MRAHPDR6620TN (3 PANEL)	MRAHPDR6820TN MRAHPDR6820TN (3 PANEL)
2–5 3/8"	2–5 7/8"	2–4	MRAHPDR5624TN MRAHPDR5624TN (3 PANEL)	MRAHPDR5824TN MRAHPDR5824TN (3 PANEL)	MRAHPDR6024TN MRAHPDR6024TN (3 PANEL)	MRAHPDR6624TN MRAHPDR6624TN (3 PANEL)	MRAHPDR6824TN MRAHPDR6824TN (3 PANEL)



Widths

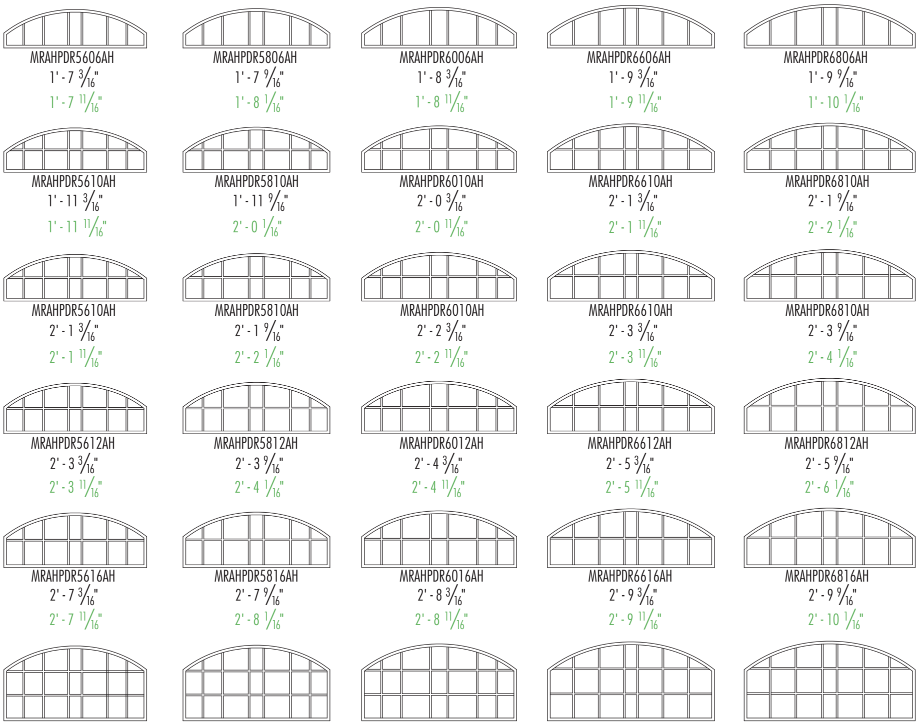
Heights

Unit Dimension	Rough Opening	Call Size	7'–4 15/16"	7'–10 15/16"	8'–4 15/16"	9'–4 15/16"
			7'–5 15/16"	7'–11 15/16"	8'–5 15/16"	9'–5 15/16"
			7–0	7–6	8–0	9–0
1–1 3/8	1–1 7/8"	1–0	MRAHPDR7010TN MRAHPDR7010TN (3 PANEL)	MRAHPDR7610TN MRAHPDR7610TN (3 PANEL)	MRAHPDR8010TN (3 PANEL)	MRAHPDR9010TN (3 PANEL)
1–3 3/8"	1–3 7/8"	1–2	MRAHPDR7012TN MRAHPDR7012TN (3 PANEL)	MRAHPDR7612TN MRAHPDR7612TN (3 PANEL)	MRAHPDR8012TN MRAHPDR8012TN (3 PANEL)	MRAHPDR9012TN (3 PANEL)
1–7 3/8"	1–7 7/8"	1–6	MRAHPDR7016TN MRAHPDR7016TN (3 PANEL)	MRAHPDR7616TN MRAHPDR7616TN (3 PANEL)	MRAHPDR8016TN MRAHPDR8016TN (3 PANEL)	MRAHPDR9016TN MRAHPDR9016TN (3 PANEL)
2–1 3/8"	2–1 7/8"	2–0	MRAHPDR7020TN MRAHPDR7020TN (3 PANEL)	MRAHPDR7620TN MRAHPDR7620TN (3 PANEL)	MRAHPDR8020TN MRAHPDR8020TN (3 PANEL)	MRAHPDR9020TN MRAHPDR9020TN (3 PANEL)
2–5 3/8"	2–5 7/8"	2–4	MRAHPDR7024TN MRAHPDR7024TN (3 PANEL)	MRAHPDR7624TN MRAHPDR7624TN (3 PANEL)	MRAHPDR8024TN MRAHPDR8024TN (3 PANEL)	MRAHPDR9024TN MRAHPDR9024TN (3 PANEL)



Standard Colonial Grille Pattern

Widths

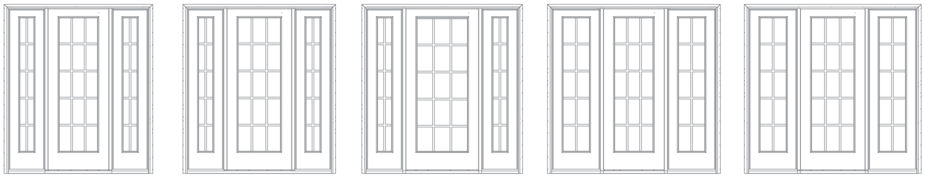


Heights

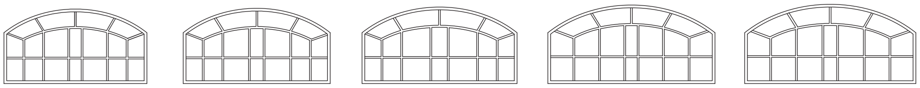
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	5'–10 15/16"	6'–0 15/16"	6'–4 15/16"	6'–10 15/16"	7'–0 15/16"
Rough Opening	5'–11 15/16"	6'–1 15/16"	6'–5 15/16"	6'–11 15/16"	7'–1 15/16"
Call Size	5–6	5–8	6–0	6–6	6–8
0–6	MRAHPDR5606AH 1' - 7 3/16" 1' - 7 11/16"	MRAHPDR5806AH 1' - 7 9/16" 1' - 8 1/16"	MRAHPDR6006AH 1' - 8 3/16" 1' - 8 11/16"	MRAHPDR6606AH 1' - 9 3/16" 1' - 9 11/16"	MRAHPDR6806AH 1' - 9 9/16" 1' - 10 1/16"
0–10	MRAHPDR5610AH 1' - 11 3/16" 1' - 11 11/16"	MRAHPDR5810AH 1' - 11 9/16" 2' - 0 1/16"	MRAHPDR6010AH 2' - 0 3/16" 2' - 0 11/16"	MRAHPDR6610AH 2' - 1 3/16" 2' - 1 11/16"	MRAHPDR6810AH 2' - 1 9/16" 2' - 2 1/16"
1–0	MRAHPDR5610AH 2' - 1 3/16" 2' - 1 11/16"	MRAHPDR5810AH 2' - 1 9/16" 2' - 2 1/16"	MRAHPDR6010AH 2' - 2 3/16" 2' - 2 11/16"	MRAHPDR6610AH 2' - 3 3/16" 2' - 3 11/16"	MRAHPDR6810AH 2' - 3 9/16" 2' - 4 1/16"
1–2	MRAHPDR5612AH 2' - 3 3/16" 2' - 3 11/16"	MRAHPDR5812AH 2' - 3 9/16" 2' - 4 1/16"	MRAHPDR6012AH 2' - 4 3/16" 2' - 4 11/16"	MRAHPDR6612AH 2' - 5 3/16" 2' - 5 11/16"	MRAHPDR6812AH 2' - 5 9/16" 2' - 6 1/16"
1–6	MRAHPDR5616AH 2' - 7 3/16" 2' - 7 11/16"	MRAHPDR5816AH 2' - 7 9/16" 2' - 8 1/16"	MRAHPDR6016AH 2' - 8 3/16" 2' - 8 11/16"	MRAHPDR6616AH 2' - 9 3/16" 2' - 9 11/16"	MRAHPDR6816AH 2' - 9 9/16" 2' - 10 1/16"
2–0	MRAHPDR5620AH 3' - 1 3/16" 3' - 1 11/16"	MRAHPDR5820AH 3' - 1 9/16" 3' - 2 1/16"	MRAHPDR6020AH 3' - 2 3/16" 3' - 2 11/16"	MRAHPDR6620AH 3' - 3 3/16" 3' - 3 11/16"	MRAHPDR6820AH 3' - 3 9/16" 3' - 4 1/16"



Optional Renaissance Grille Pattern



Hinged Doors – 3-Panel Arch Transom Units

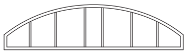
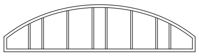
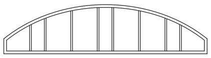
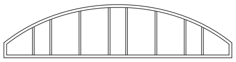
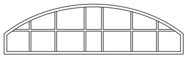
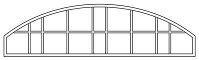
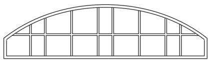
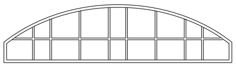
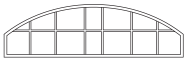
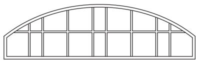
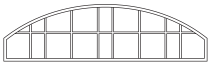
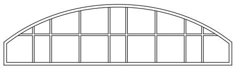
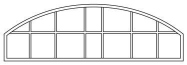
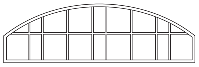
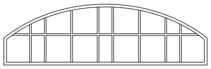
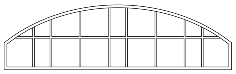
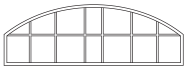
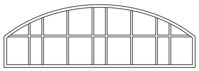
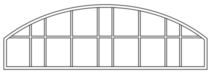
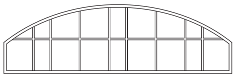
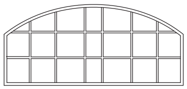
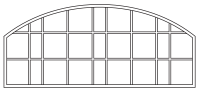
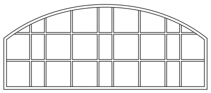
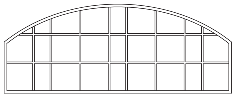
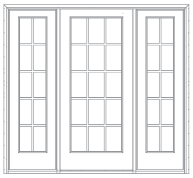
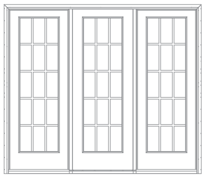
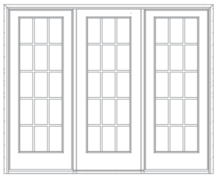
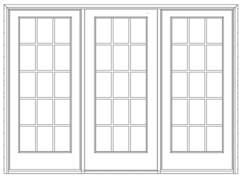
Standard Colonial Grille Pattern

Widths

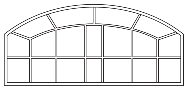
Heights

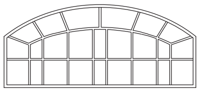
Unit height dimension is listed first under individual windows

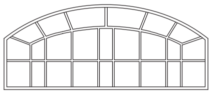
Rough Opening height dimension is listed second under individual windows

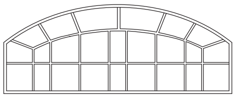
Unit Dimension	7'–4 15/16"	7'–10 15/16"	8'–4 15/16"	9'–4 15/16"
Rough Opening	7'–5 15/16"	7'–11 15/16"	8'–5 15/16"	9'–5 15/16"
Call Size	7–0	7–6	8–0	9–0
0–6	 MRAHPDR7006AH 1' - 10 3/16" 1' - 10 11/16"	 MRAHPDR7606AH 1' - 11 3/16" 1' - 11 11/16"	 MRAHPDR8006AH 2' - 0 3/16" 2' - 0 11/16"	 MRAHPDR9006AH 2' - 2 3/16" 2' - 2 11/16"
0–10	 MRAHPDR70010AH 2' - 2 3/16" 2' - 2 11/16"	 MRAHPDR76010AH 2' - 3 3/16" 2' - 3 11/16"	 MRAHPDR80010AH 2' - 4 3/16" 2' - 4 11/16"	 MRAHPDR90010AH 2' - 6 3/16" 2' - 6 11/16"
1–0	 MRAHPDR7010AH 2' - 4 3/16" 2' - 4 11/16"	 MRAHPDR7610AH 2' - 5 3/16" 2' - 5 11/16"	 MRAHPDR8010AH 2' - 6 3/16" 2' - 6 11/16"	 MRAHPDR9010AH 2' - 8 3/16" 2' - 8 11/16"
1–2	 MRAHPDR7012AH 2' - 6 3/16" 2' - 6 11/16"	 MRAHPDR7612AH 2' - 7 3/16" 2' - 7 11/16"	 MRAHPDR8012AH 2' - 8 3/16" 2' - 8 11/16"	 MRAHPDR9012AH 2' - 10 3/16" 2' - 10 11/16"
1–6	 MRAHPDR7016AH 2' - 10 3/16" 2' - 10 11/16"	 MRAHPDR7616AH 2' - 11 3/16" 2' - 11 11/16"	 MRAHPDR8016AH 3' - 0 3/16" 3' - 0 11/16"	 MRAHPDR9016AH 3' - 2 3/16" 3' - 2 11/16"
2–0	 MRAHPDR7020AH 3' - 4 3/16" 3' - 4 11/16"	 MRAHPDR7620AH 3' - 5 3/16" 3' - 5 11/16"	 MRAHPDR8020AH 3' - 6 3/16" 3' - 6 11/16"	 MRAHPDR9020AH 3' - 8 3/16" 3' - 8 11/16"
				

Optional Renaissance Grille Pattern



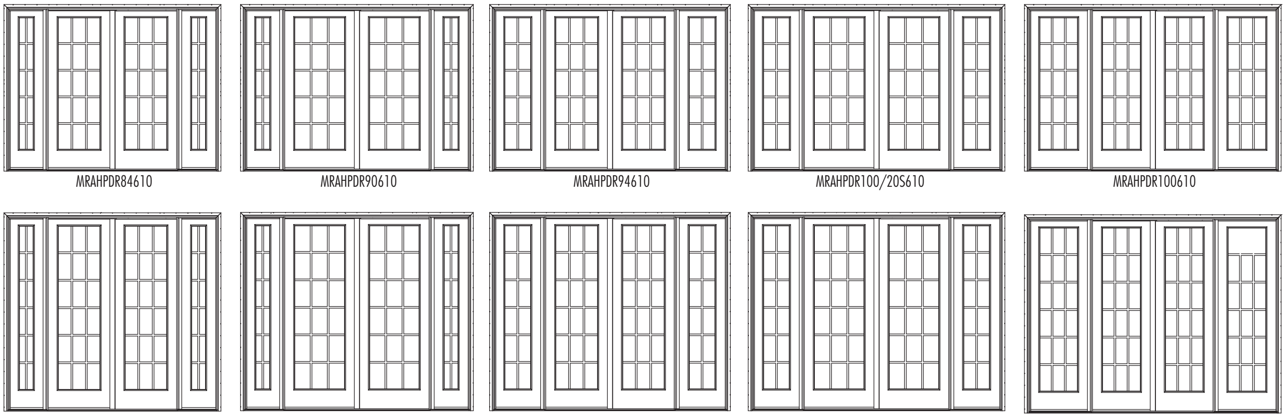






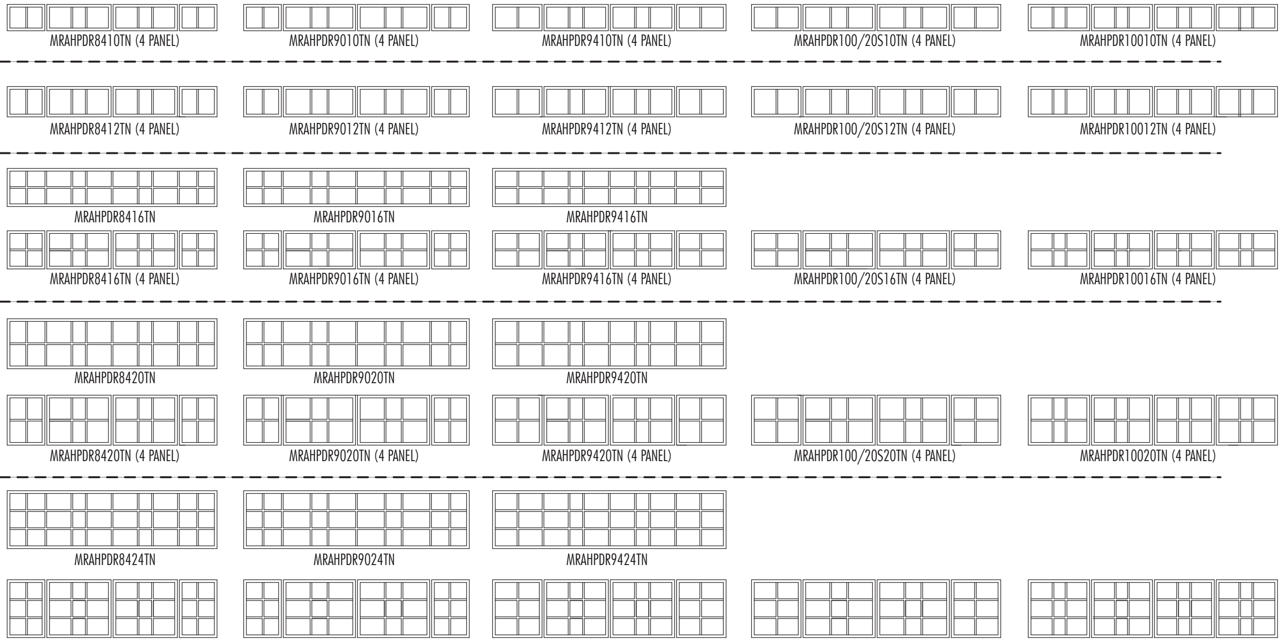
Widths

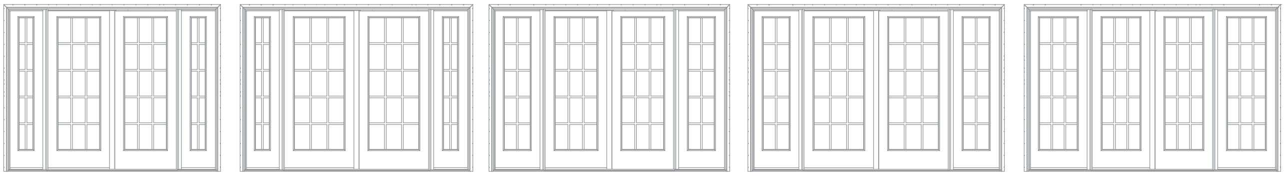
		Unit Dimension	8'–10 9/16"	9'–6 9/16"	9'–10 9/16"	10'–6 9/16"	10'–6 9/16"
		Rough Opening	8'–11 9/16"	9'–7 9/16"	9'–11 9/16"	10'–7 9/16"	10'–7 9/16"
Heights Unit Dimension	Rough Opening	Call Size	8–4	9–0	9–4	10–0/20	10–0
6–10 11/16"	6–11 3/16"	6–10	MRAHPDR84610	MRAHPDR90610	MRAHPDR94610	MRAHPDR100/20S610	MRAHPDR100610
8–2 11/16"	8–3 3/16"	8–0	MRAHPDR8480	MRAHPDR9080	MRAHPDR9480	MRAHPDR100/20S80	MRAHPDR10080



Widths

		Unit Dimension	8'–10 9/16"	9'–6 9/16"	9'–10 9/16"	10'–6 9/16"	10'–6 9/16"
		Rough Opening	8'–11 9/16"	9'–7 9/16"	9'–11 9/16"	10'–7 9/16"	10'–7 9/16"
Heights Unit Dimension	Rough Opening	Call Size	8–4	9–0	9–4	10–0/20	10–0
1–1 3/8	1–1 7/8"	1–0	MRAHPDR8410TN (4 PANEL)	MRAHPDR9010TN (4 PANEL)	MRAHPDR9410TN (4 PANEL)	MRAHPDR100/20S10TN (4 PANEL)	MRAHPDR10010TN (4 PANEL)
1–3 3/8"	1–3 7/8"	1–2	MRAHPDR8412TN (4 PANEL)	MRAHPDR9012TN (4 PANEL)	MRAHPDR9412TN (4 PANEL)	MRAHPDR100/20S12TN (4 PANEL)	MRAHPDR10012TN (4 PANEL)
1–7 3/8"	1–7 7/8"	1–6	MRAHPDR8416TN MRAHPDR8416TN (4 PANEL)	MRAHPDR9016TN MRAHPDR9016TN (4 PANEL)	MRAHPDR9416TN MRAHPDR9416TN (4 PANEL)	MRAHPDR100/20S16TN (4 PANEL)	MRAHPDR10016TN (4 PANEL)
2–1 3/8"	2–1 7/8"	2–0	MRAHPDR8420TN MRAHPDR8420TN (4 PANEL)	MRAHPDR9020TN MRAHPDR9020TN (4 PANEL)	MRAHPDR9420TN MRAHPDR9420TN (4 PANEL)	MRAHPDR100/20S20TN (4 PANEL)	MRAHPDR10020TN (4 PANEL)
2–5 3/8"	2–5 7/8"	2–4	MRAHPDR8424TN MRAHPDR8424TN (4 PANEL)	MRAHPDR9024TN MRAHPDR9024TN (4 PANEL)	MRAHPDR9424TN MRAHPDR9424TN (4 PANEL)	MRAHPDR100/20S24TN (4 PANEL)	MRAHPDR10024TN (4 PANEL)





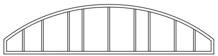
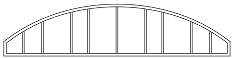
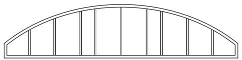
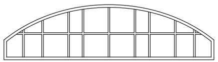
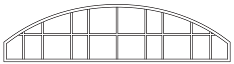
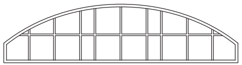
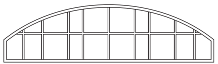
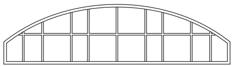
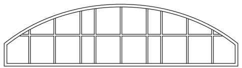
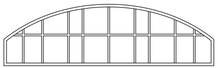
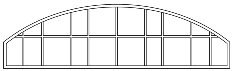
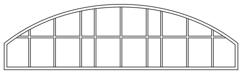
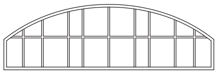
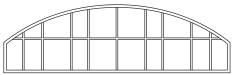
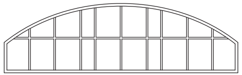
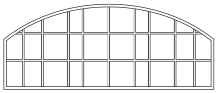
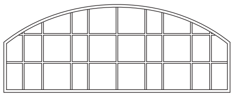
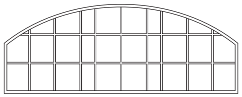
Standard Colonial Grille Pattern

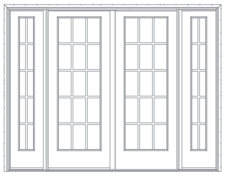
Widths

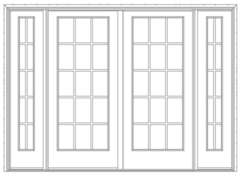
Heights

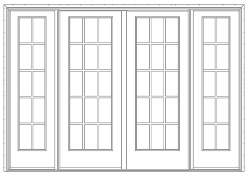
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

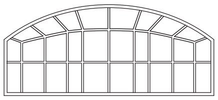
Unit Dimension	8'–10 9/16"	9'–6 9/16"	9'–10 9/16"
Rough Opening	8'–11 9/16"	9'–7 9/16"	9'–11 9/16"
Call Size	8–4	9–0	9–4
0–6	 MRAHPDR8406AH 2' - 1 1/8" 2' - 1 5/8"	 MRAHPDR9006AH 2' - 2 1/2" 2' - 3"	 MRAHPDR9406AH 2' - 3 1/8" 2' - 3 5/8"
0–10	 MRAHPDR84010AH 2' - 5 1/8" 2' - 5 5/8"	 MRAHPDR90010AH 2' - 6 1/2" 2' - 7"	 MRAHPDR94010AH 2' - 7 1/8" 2' - 7 5/8"
1–0	 MRAHPDR8410AH 2' - 7 1/8" 2' - 7 5/8"	 MRAHPDR9010AH 2' - 8 1/2" 2' - 9"	 MRAHPDR9410AH 2' - 9 1/8" 2' - 9 5/8"
1–2	 MRAHPDR8412AH 2' - 9 1/8" 2' - 9 5/8"	 MRAHPDR9012AH 2' - 10 1/2" 2' - 11"	 MRAHPDR9412AH 2' - 11 1/8" 2' - 11 5/8"
1–6	 MRAHPDR8416AH 3' - 1 1/8" 3' - 1 5/8"	 MRAHPDR9016AH 3' - 2 1/2" 3' - 3"	 MRAHPDR9416AH 3' - 3 1/8" 3' - 3 5/8"
2–0	 MRAHPDR8420AH 3' - 7 1/8" 3' - 7 5/8"	 MRAHPDR9020AH 3' - 8 1/2" 3' - 9"	 MRAHPDR9420AH 3' - 9 1/8" 3' - 9 5/8"

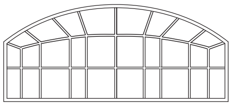


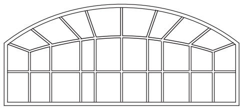


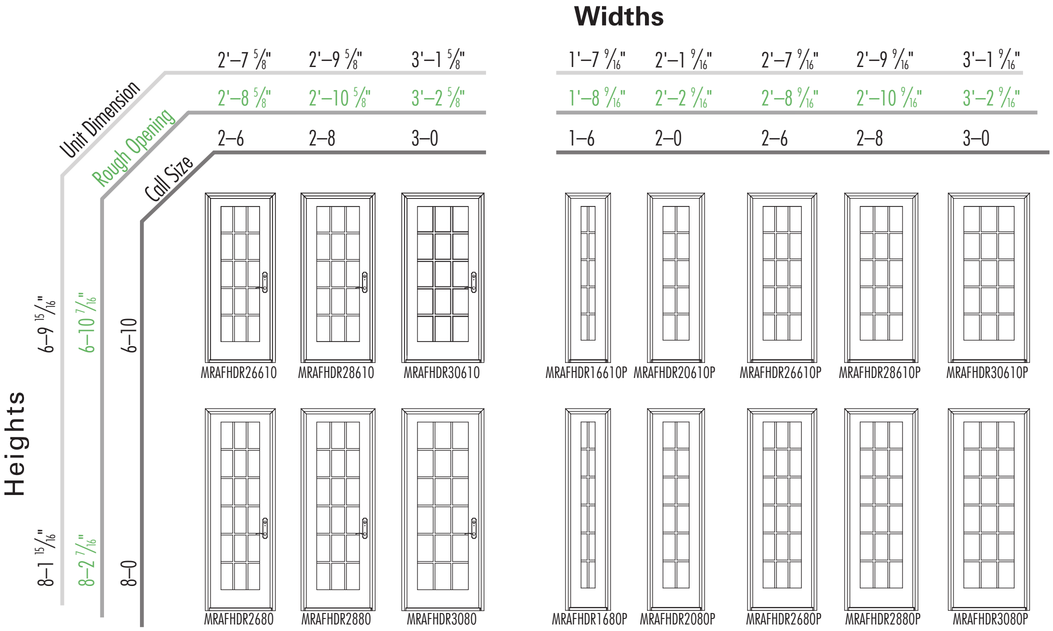


Optional Renaissance Grille Pattern








Widths
Unit Dimension
Rough Opening
Call Size
2'–7 5/8"
2'–9 5/8"
3'–1 5/8"
2'–8 5/8"
2'–10 5/8"
3'–2 5/8"
2–6
2–8
3–0
1'–7 9/16"
2'–1 9/16"
2'–7 9/16"
2'–9 9/16"
3'–1 9/16"
1'–8 9/16"
2'–2 9/16"
2'–8 9/16"
2'–10 9/16"
3'–2 9/16"
1–6
2–0
2–6
2–8
3–0
Heights
6–9 15/16"
6–10 7/16"
6–10
8–1 15/16"
8–2 7/16"
8–0
MRAFHDR26610
MRAFHDR28610
MRAFHDR30610
MRAFHDR16610P
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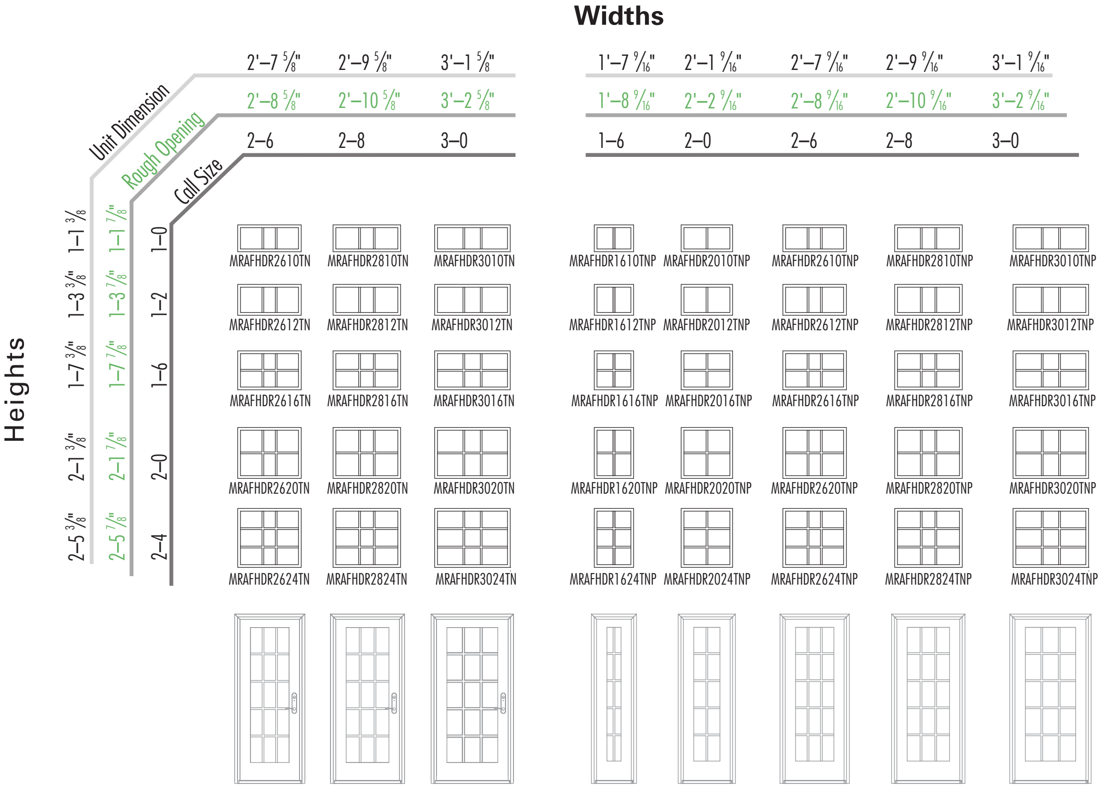
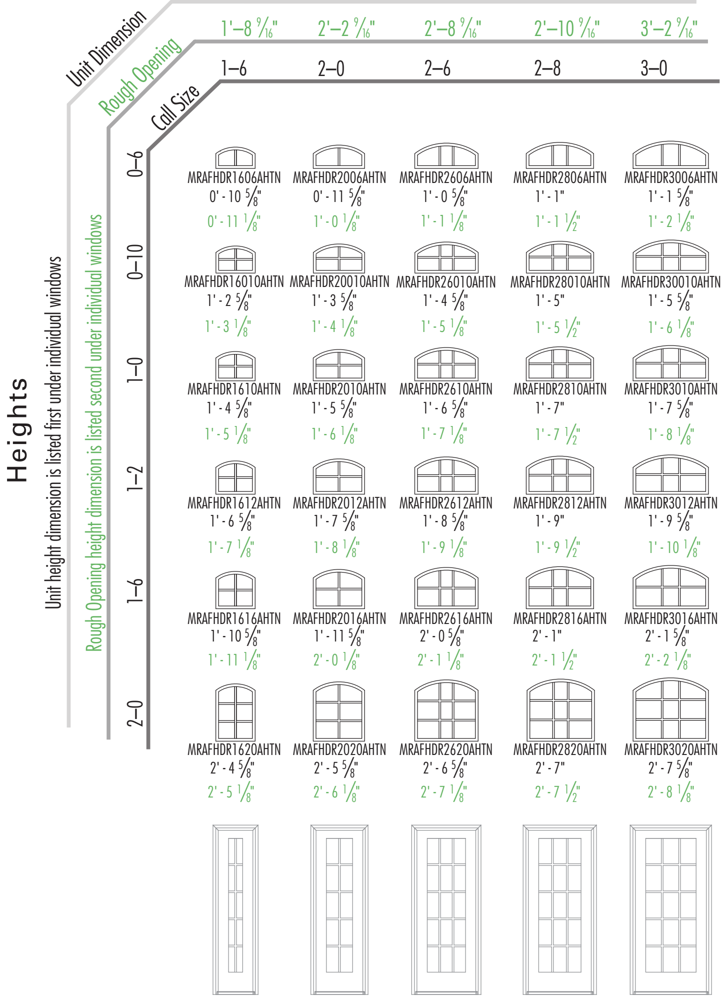
MRAFHDR2880
MRAFHDR3080
MRAFHDR1680P
MRAFHDR2080P
MRAFHDR2680P
MRAFHDR2880P
MRAFHDR3080P


Widths
Unit Dimension
Rough Opening
Call Size
2'–7 5/8"
2'–9 5/8"
3'–1 5/8"
2'–8 5/8"
2'–10 5/8"
3'–2 5/8"
2–6
2–8
3–0
1'–7 9/16"
2'–1 9/16"
2'–7 9/16"
2'–9 9/16"
3'–1 9/16"
1'–8 9/16"
2'–2 9/16"
2'–8 9/16"
2'–10 9/16"
3'–2 9/16"
1–6
2–0
2–6
2–8
3–0
Heights
1–1 3/8
1–1 7/8
1–0
1–3 3/8"
1–3 7/8
1–2
1–7 3/8"
1–7 7/8
1–6
2–1 3/8"
2–1 7/8"
2–0
2–5 3/8"
2–5 7/8"
2–4
MRAFHDR2610TN
MRAFHDR2810TN
MRAFHDR3010TN
MRAFHDR1610TNP
MRAFHDR2010TNP
MRAFHDR2610TNP
MRAFHDR2810TNP
MRAFHDR3010TNP
MRAFHDR2612TN
MRAFHDR2812TN
MRAFHDR3012TN
MRAFHDR1612TNP
MRAFHDR2012TNP
MRAFHDR2612TNP
MRAFHDR2812TNP
MRAFHDR3012TNP
MRAFHDR2616TN
MRAFHDR2816TN
MRAFHDR3016TN
MRAFHDR1616TNP
MRAFHDR2016TNP
MRAFHDR2616TNP
MRAFHDR2816TNP
MRAFHDR3016TNP
MRAFHDR2620TN
MRAFHDR2820TN
MRAFHDR3020TN
MRAFHDR1620TNP
MRAFHDR2020TNP
MRAFHDR2620TNP
MRAFHDR2820TNP
MRAFHDR3020TNP
MRAFHDR2624TN
MRAFHDR2824TN
MRAFHDR3024TN
MRAFHDR1624TNP
MRAFHDR2024TNP
MRAFHDR2624TNP
MRAFHDR2824TNP
MRAFHDR3024TNP

French Outswing Doors – Single Panel Arch Transom Units

2- Panel Operating, Elliptical & Circle Head Units

Standard Colonial Grille Pattern



Widths

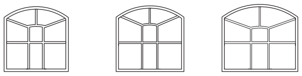
Heights

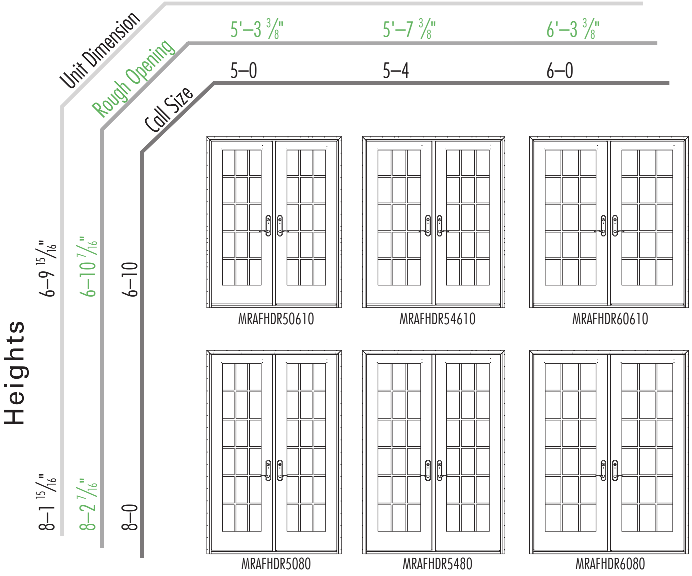
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Unit Dimension	1'–7 9/16"	2'–1 9/16"	2'–7 9/16"	2'–9 9/16"	3'–1 9/16"
Rough Opening	1'–8 9/16"	2'–2 9/16"	2'–8 9/16"	2'–10 9/16"	3'–2 9/16"
Call Size	1–6	2–0	2–6	2–8	3–0
0–6	MRAFHDR1606AHTN 0' - 10 5/8" 0' - 11 1/8"	MRAFHDR2006AHTN 0' - 11 5/8" 1' - 0 1/8"	MRAFHDR2606AHTN 1' - 0 5/8" 1' - 1 1/8"	MRAFHDR2806AHTN 1' - 1" 1' - 1 1/2"	MRAFHDR3006AHTN 1' - 1 5/8" 1' - 2 1/8"
0–10	MRAFHDR16010AHTN 1' - 2 5/8" 1' - 3 1/8"	MRAFHDR20010AHTN 1' - 3 5/8" 1' - 4 1/8"	MRAFHDR26010AHTN 1' - 4 5/8" 1' - 5 1/8"	MRAFHDR28010AHTN 1' - 5" 1' - 5 1/2"	MRAFHDR30010AHTN 1' - 5 5/8" 1' - 6 1/8"
1–0	MRAFHDR1610AHTN 1' - 4 5/8" 1' - 5 1/8"	MRAFHDR2010AHTN 1' - 5 5/8" 1' - 6 1/8"	MRAFHDR2610AHTN 1' - 6 5/8" 1' - 7 1/8"	MRAFHDR2810AHTN 1' - 7" 1' - 7 1/2"	MRAFHDR3010AHTN 1' - 7 5/8" 1' - 8 1/8"
1–2	MRAFHDR1612AHTN 1' - 6 5/8" 1' - 7 1/8"	MRAFHDR2012AHTN 1' - 7 5/8" 1' - 8 1/8"	MRAFHDR2612AHTN 1' - 8 5/8" 1' - 9 1/8"	MRAFHDR2812AHTN 1' - 9" 1' - 9 1/2"	MRAFHDR3012AHTN 1' - 9 5/8" 1' - 10 1/8"
1–6	MRAFHDR1616AHTN 1' - 10 5/8" 1' - 11 1/8"	MRAFHDR2016AHTN 1' - 11 5/8" 2' - 0 1/8"	MRAFHDR2616AHTN 2' - 0 5/8" 2' - 1 1/8"	MRAFHDR2816AHTN 2' - 1" 2' - 1 1/2"	MRAFHDR3016AHTN 2' - 1 5/8" 2' - 2 1/8"
2–0	MRAFHDR1620AHTN 2' - 4 5/8" 2' - 5 1/8"	MRAFHDR2020AHTN 2' - 5 5/8" 2' - 6 1/8"	MRAFHDR2620AHTN 2' - 6 5/8" 2' - 7 1/8"	MRAFHDR2820AHTN 2' - 7" 2' - 7 1/2"	MRAFHDR3020AHTN 2' - 7 5/8" 2' - 8 1/8"

Optional Renaissance Grille Pattern

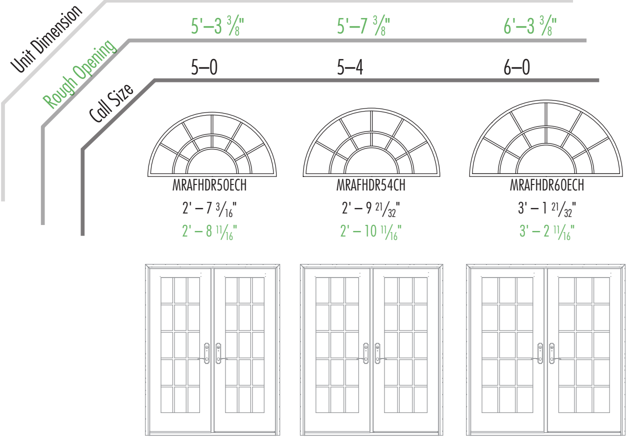




Widths

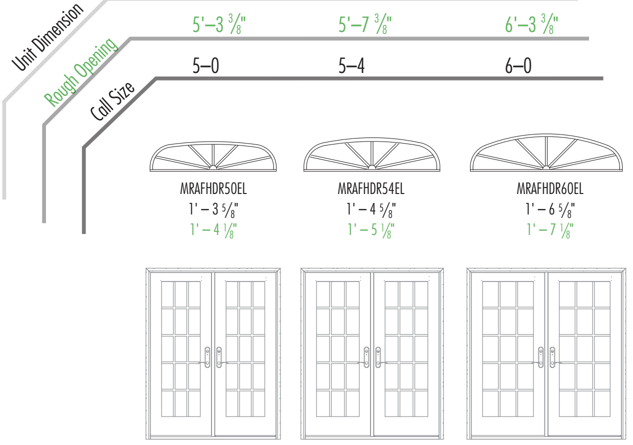
Heights

Unit Dimension				5'–2 3/8"	5'–6 3/8"	6'–2 3/8"
Rough Opening				5'–3 3/8"	5'–7 3/8"	6'–3 3/8"
Call Size				5–0	5–4	6–0
	6–9 15/16"	6–10 7/16"	6–10	MRAFHDR50610	MRAFHDR54610	MRAFHDR60610
	8–1 15/16"	8–2 7/16"	8–0	MRAFHDR5080	MRAFHDR5480	MRAFHDR6080



Widths

Unit Dimension	5'–2 3/8"	5'–6 3/8"	6'–2 3/8"
Rough Opening	5'–3 3/8"	5'–7 3/8"	6'–3 3/8"
Call Size	5–0	5–4	6–0
	MRAFHDR50ECH 2' – 7 3/16" 2' – 8 11/16"	MRAFHDR54CH 2' – 9 21/32" 2' – 10 11/16"	MRAFHDR60ECH 3' – 1 21/32" 3' – 2 11/16"



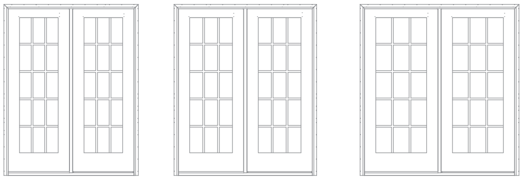
Widths

Unit Dimension	5'–2 3/8"	5'–6 3/8"	6'–2 3/8"
Rough Opening	5'–3 3/8"	5'–7 3/8"	6'–3 3/8"
Call Size	5–0	5–4	6–0
	MRAFHDR50EL 1' – 3 5/8" 1' – 4 1/8"	MRAFHDR54EL 1' – 4 5/8" 1' – 5 1/8"	MRAFHDR60EL 1' – 6 5/8" 1' – 7 1/8"

Widths

Heights

		Unit Dimension	5'–2 3/8"	5'–6 3/8"	6'–2 3/8"
		Rough Opening	5'–3 3/8"	5'–7 3/8"	6'–3 3/8"
Unit Dimension	Rough Opening	Call Size	5–0	5–4	6–0
1–1 3/8	1–1 7/8"	1–0	MRAFHDR5010TN	MRAFHDR5410TN	MRAFHDR6010TN
1–3 3/8"	1–3 7/8"	1–2	MRAFHDR5012TN	MRAFHDR5412TN	MRAFHDR6012TN
1–7 3/8"	1–7 7/8"	1–6	MRAFHDR5016TN	MRAFHDR5416TN	MRAFHDR6016TN
2–1 3/8"	2–1 7/8"	2–0	MRAFHDR5020TN	MRAFHDR5420TN	MRAFHDR6020TN
2–5 3/8"	2–5 7/8"	2–4	MRAFHDR5024TN	MRAFHDR5424TN	MRAFHDR6024TN



Standard Colonial Grille Pattern

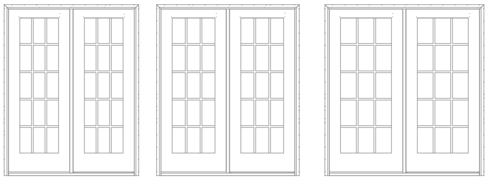
Widths

Heights

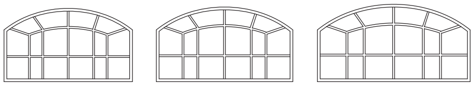
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

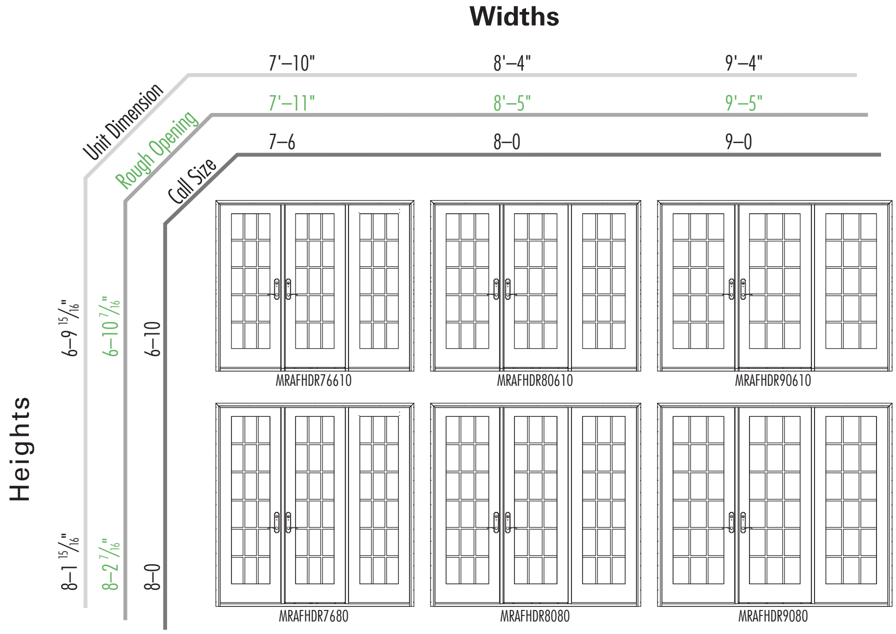
Unit Dimension	5'–2 3/8"	5'–6 3/8"	6'–2 3/8"
Rough Opening	5'–3 3/8"	5'–7 3/8"	6'–3 3/8"
Call Size	5–0	5–4	6–0
0–6	MRAFHDR5006AHTN 1' - 5 3/4" 1' - 6 1/4"	MRAFHDR5406AHTN 1' - 6 7/16" 1' - 6 15/16"	MRAFHDR6006AH 1' - 7 3/4" 1' - 8 1/4"
0–10	MRAFHDR5010AHTN 1' - 9 3/4" 1' - 10 1/4"	MRAFHDR5410AHTN 1' - 10 7/16" 1' - 10 15/16"	MRAFHDR6010AH 1' - 11 3/4" 2' - 0 1/4"
1–0	MRAFHDR5010AHTN 1' - 11 3/4" 2' - 0 1/4"	MRAFHDR5410AHTN 2' - 0 7/16" 2' - 0 15/16"	MRAFHDR6010AH 2' - 1 3/4" 2' - 2 1/4"
1–2	MRAFHDR5012AHTN 2' - 1 3/4" 2' - 2 1/4"	MRAFHDR5412AHTN 2' - 2 7/16" 2' - 2 15/16"	MRAFHDR6012AH 2' - 3 3/4" 2' - 4 1/4"
1–6	MRAFHDR5016AHTN 2' - 5 3/4" 2' - 6 1/4"	MRAFHDR5416AHTN 2' - 6 7/16" 2' - 6 15/16"	MRAFHDR6016AH 2' - 7 3/4" 2' - 8 1/4"
2–0	MRAFHDR5020AHTN 2' - 11 3/4" 3' - 0 1/4"	MRAFHDR5420AHTN 3' - 0 7/16" 3' - 0 15/16"	MRAFHDR6020AH 3' - 1 3/4" 3' - 2 1/4"



Optional Renaissance Grille Pattern



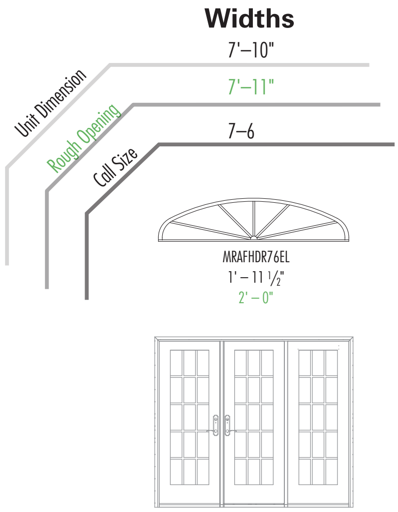
French Outswing Doors – 3- Panel Operating, Elliptical &Transom Units



Widths

Heights

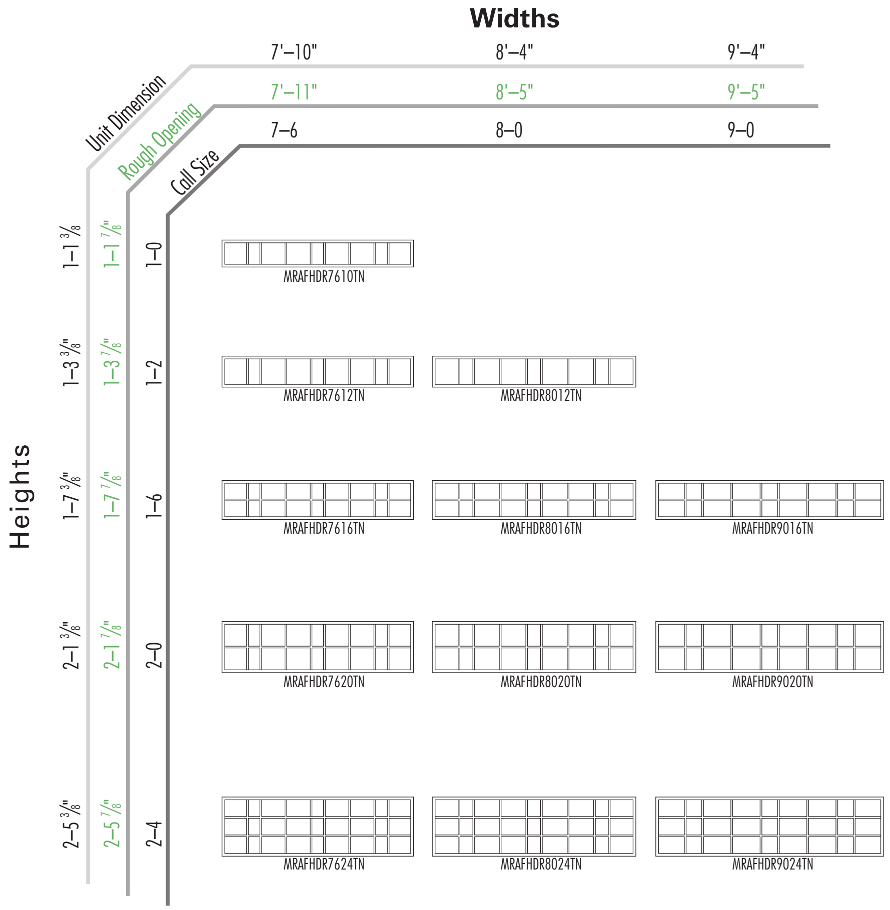
Unit Dimension			7'–10"	8'–4"	9'–4"
Rough Opening			7'–11"	8'–5"	9'–5"
Call Size			7–6	8–0	9–0
6–9 15/16"	6–10 7/16"	6–10	MRAFHDR76610	MRAFHDR80610	MRAFHDR90610
8–1 15/16"	8–2 7/16"	8–0	MRAFHDR7680	MRAFHDR8080	MRAFHDR9080



Widths

Unit Dimension	7'–10"
Rough Opening	7'–11"
Call Size	7–6

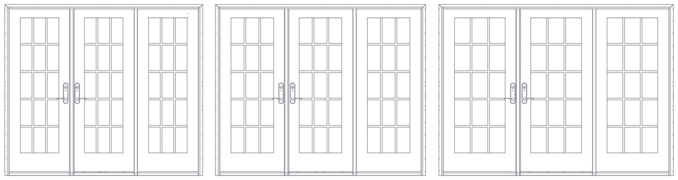
MRAFHDR76EL
1' – 11 1/2"
2' – 0"



Widths

Heights

Unit Dimension			7'–10"	8'–4"	9'–4"
Rough Opening			7'–11"	8'–5"	9'–5"
Call Size			7–6	8–0	9–0
1–1 3/8	1–1 7/8"	1–0	MRAFHDR7610TN		
1–3 3/8"	1–3 7/8"	1–2	MRAFHDR7612TN	MRAFHDR8012TN	
1–7 3/8"	1–7 7/8"	1–6	MRAFHDR7616TN	MRAFHDR8016TN	MRAFHDR9016TN
2–1 3/8"	2–1 7/8"	2–0	MRAFHDR7620TN	MRAFHDR8020TN	MRAFHDR9020TN
2–5 3/8"	2–5 7/8"	2–4	MRAFHDR7624TN	MRAFHDR8024TN	MRAFHDR9024TN



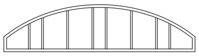
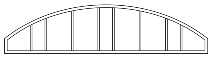
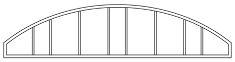
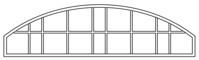
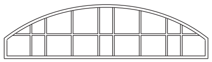
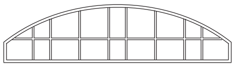
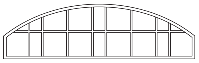
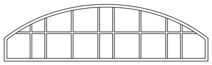
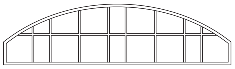
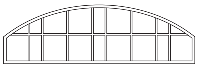
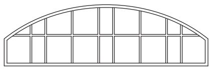
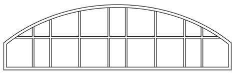
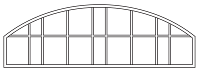
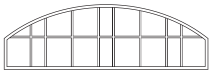
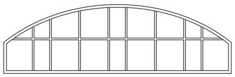
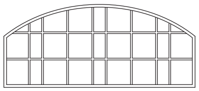
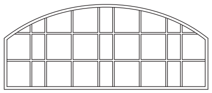
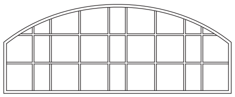
Standard Colonial Grille Pattern

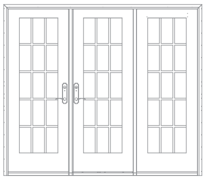
Widths

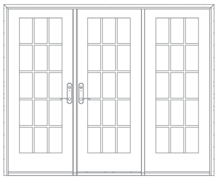
Heights

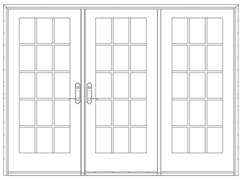
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

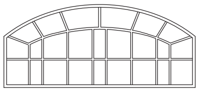
Unit Dimension	7'–10"	8'–4"	9'–4"
Rough Opening	7'–11"	8'–5"	9'–5"
Call Size	7–6	8–0	9–0
0–6	 MRAFHDR7606AH 1' - 11 1/16" 1' - 11 9/16"	 MRAFHDR8006AH 2' - 0 1/16" 2' - 0 9/16"	 MRAFHDR9006AH 2' - 2 1/16" 2' - 2 9/16"
0–10	 MRAFHDR76010AH 2' - 3 1/16" 2' - 3 9/16"	 MRAFHDR80010AH 2' - 4 1/16" 2' - 4 9/16"	 MRAFHDR90010AH 2' - 6 1/16" 2' - 6 9/16"
1–0	 MRAFHDR7610AH 2' - 5 1/16" 2' - 5 9/16"	 MRAFHDR8010AH 2' - 6 1/16" 2' - 6 9/16"	 MRAFHDR9010AH 2' - 8 1/16" 2' - 8 9/16"
1–2	 MRAFHDR7612AH 2' - 7 1/16" 2' - 7 9/16"	 MRAFHDR8012AH 2' - 8 1/16" 2' - 8 9/16"	 MRAFHDR9012AH 2' - 10 1/16" 2' - 10 9/16"
1–6	 MRAFHDR7616AH 2' - 11 1/16" 2' - 11 9/16"	 MRAFHDR8016AH 3' - 0 1/16" 3' - 0 9/16"	 MRAFHDR9016AH 3' - 2 1/16" 3' - 2 9/16"
2–0	 MRAFHDR7620AH 3' - 5 1/16" 3' - 5 9/16"	 MRAFHDR8020AH 3' - 6 1/16" 3' - 6 9/16"	 MRAFHDR9020AH 3' - 8 1/16" 3' - 8 9/16"

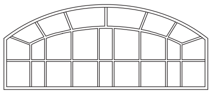


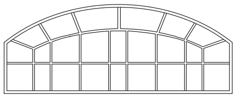




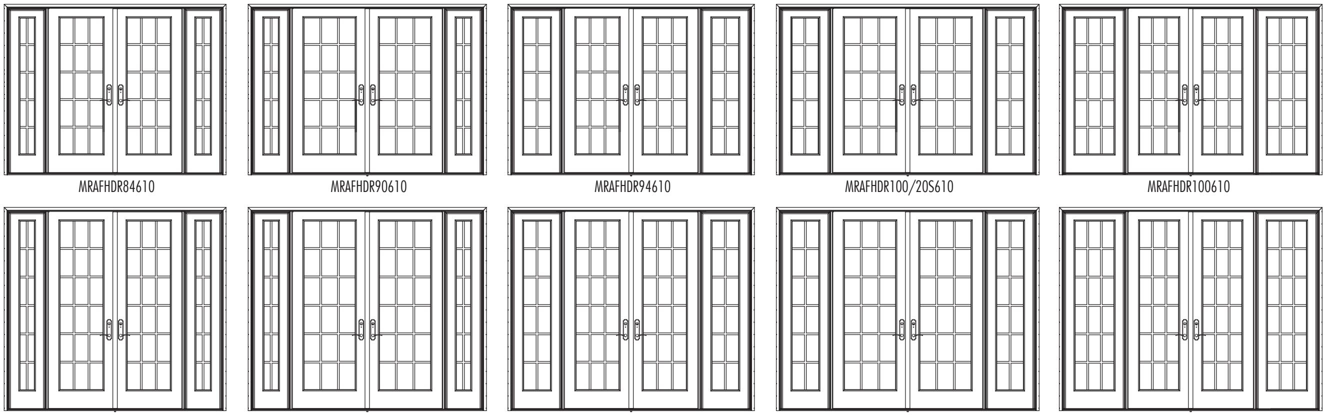
Optional Renaissance Grille Pattern



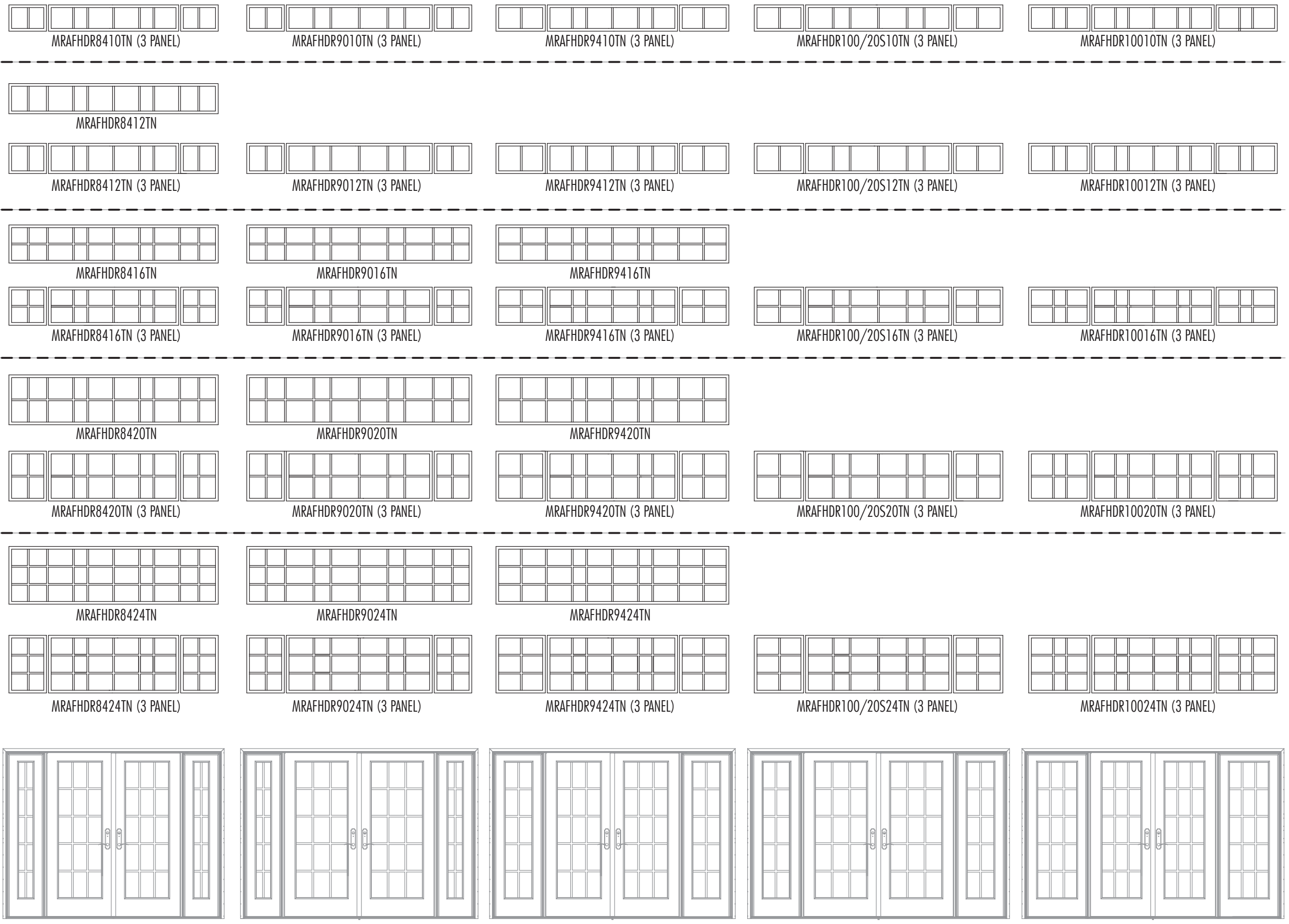




French Outswing Doors – 4- Panel Operating & Transom Units



Heights			Widths				
Unit Dimension			8'–9 5/8"	9'–5 5/8"	9'–9 5/8"	10'–5 5/8"	10'–5 5/8"
	Rough Opening		8'–10 5/8"	9'–6 5/8"	9'–10 5/8"	10'–6 5/8"	10'–6 5/8"
		Call Size	8–4	9–0	9–4	10–0/20	10–0
6–9 15/16"	6–10 7/16"	6–10	MRAFHDR84610	MRAFHDR90610	MRAFHDR94610	MRAFHDR100/20S610	MRAFHDR100610
8–1 15/16"	8–2 7/16"	8–0	MRAFHDR8480	MRAFHDR9080	MRAFHDR9480	MRAFHDR100/20S80	MRAFHDR10080



Heights			Widths				
Unit Dimension			8'–9 5/8"	9'–5 5/8"	9'–9 5/8"	10'–5 5/8"	10'–5 5/8"
	Rough Opening		8'–10 5/8"	9'–6 5/8"	9'–10 5/8"	10'–6 5/8"	10'–6 5/8"
		Call Size	8–4	9–0	9–4	10–0/20	10–0
1–1 3/8"	1–1 7/8"	1–0	MRAFHDR8410TN (3 PANEL)	MRAFHDR9010TN (3 PANEL)	MRAFHDR9410TN (3 PANEL)	MRAFHDR100/20S10TN (3 PANEL)	MRAFHDR10010TN (3 PANEL)
1–3 3/8"	1–3 7/8"	1–2	MRAFHDR8412TN MRAFHDR8412TN (3 PANEL)	MRAFHDR9012TN (3 PANEL)	MRAFHDR9412TN (3 PANEL)	MRAFHDR100/20S12TN (3 PANEL)	MRAFHDR10012TN (3 PANEL)
1–7 3/8"	1–7 7/8"	1–6	MRAFHDR8416TN MRAFHDR8416TN (3 PANEL)	MRAFHDR9016TN MRAFHDR9016TN (3 PANEL)	MRAFHDR9416TN MRAFHDR9416TN (3 PANEL)	MRAFHDR100/20S16TN (3 PANEL)	MRAFHDR10016TN (3 PANEL)
2–1 3/8"	2–1 7/8"	2–0	MRAFHDR8420TN MRAFHDR8420TN (3 PANEL)	MRAFHDR9020TN MRAFHDR9020TN (3 PANEL)	MRAFHDR9420TN MRAFHDR9420TN (3 PANEL)	MRAFHDR100/20S20TN (3 PANEL)	MRAFHDR10020TN (3 PANEL)
2–5 3/8"	2–5 7/8"	2–4	MRAFHDR8424TN MRAFHDR8424TN (3 PANEL)	MRAFHDR9024TN MRAFHDR9024TN (3 PANEL)	MRAFHDR9424TN MRAFHDR9424TN (3 PANEL)	MRAFHDR100/20S24TN (3 PANEL)	MRAFHDR10024TN (3 PANEL)

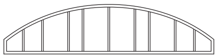
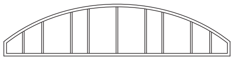
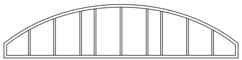
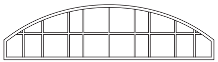
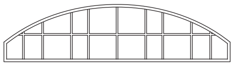
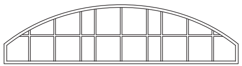
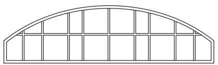
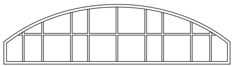
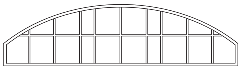
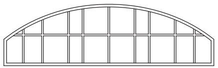
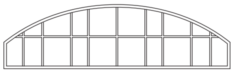
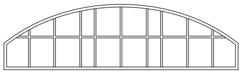
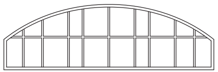
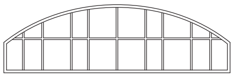
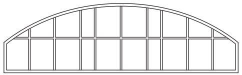
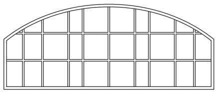
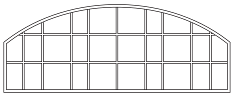
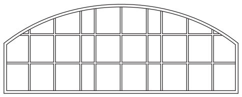
Standard Colonial Grille Pattern

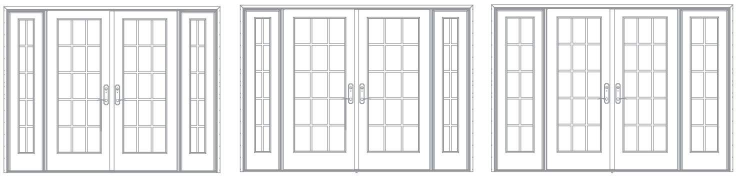
Widths

Heights

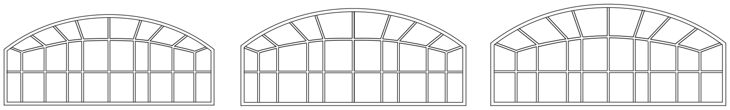
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

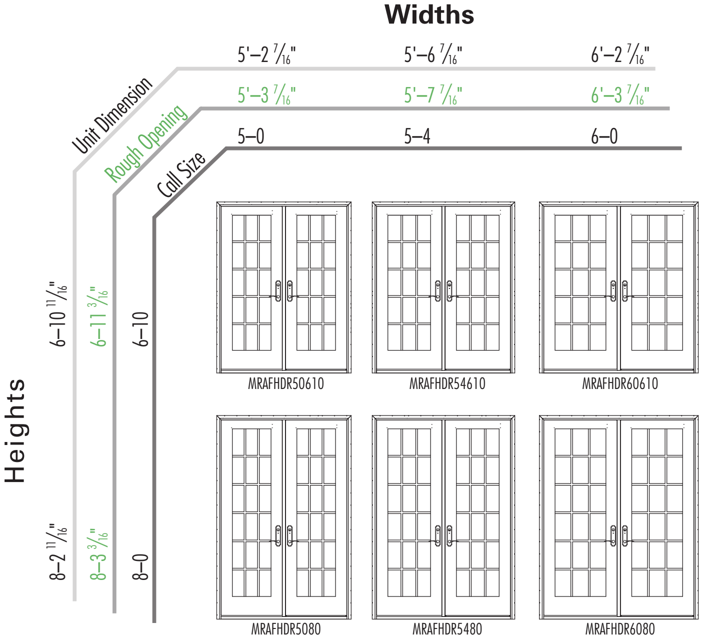
Unit Dimension	8'–9 5/8"	9'–5 5/8"	9'–9 5/8"
Rough Opening	8'–10 5/8"	9'–6 5/8"	9'–10 5/8"
Call Size	8–4	9–0	9–4
0–6	 MRAFHDR8406AH 2' - 1" 2' - 1 1/2"	 MRAFHDR9006AH 2' - 2 5/16" 2' - 2 13/16"	 MRAFHDR9406AH 2' - 3" 2' - 3 1/2"
0–10	 MRAFHDR84010AH 2' - 5" 2' - 5 1/2"	 MRAFHDR90010AH 2' - 6 5/16" 2' - 6 13/16"	 MRAFHDR94010AH 2' - 7" 2' - 7 1/2"
1–0	 MRAFHDR8410AH 2' - 7" 2' - 7 1/2"	 MRAFHDR9010AH 2' - 8 5/16" 2' - 8 13/16"	 MRAFHDR9410AH 2' - 9" 2' - 9 1/2"
1–2	 MRAFHDR8412AH 2' - 9" 2' - 9 1/2"	 MRAFHDR9012AH 2' - 10 5/16" 2' - 10 13/16"	 MRAFHDR9412AH 2' - 11" 2' - 11 1/2"
1–6	 MRAFHDR8416AH 3' - 1" 3' - 1 1/2"	 MRAFHDR9016AH 3' - 2 5/16" 3' - 2 13/16"	 MRAFHDR9416AH 3' - 3" 3' - 3 1/2"
2–0	 MRAFHDR8420AH 3' - 7" 3' - 7 1/2"	 MRAFHDR9020AH 3' - 8 5/16" 3' - 8 13/16"	 MRAFHDR9420AH 3' - 9" 3' - 9 1/2"

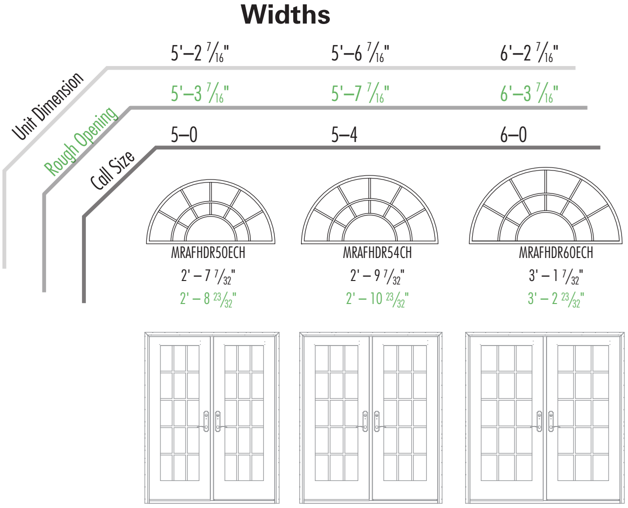


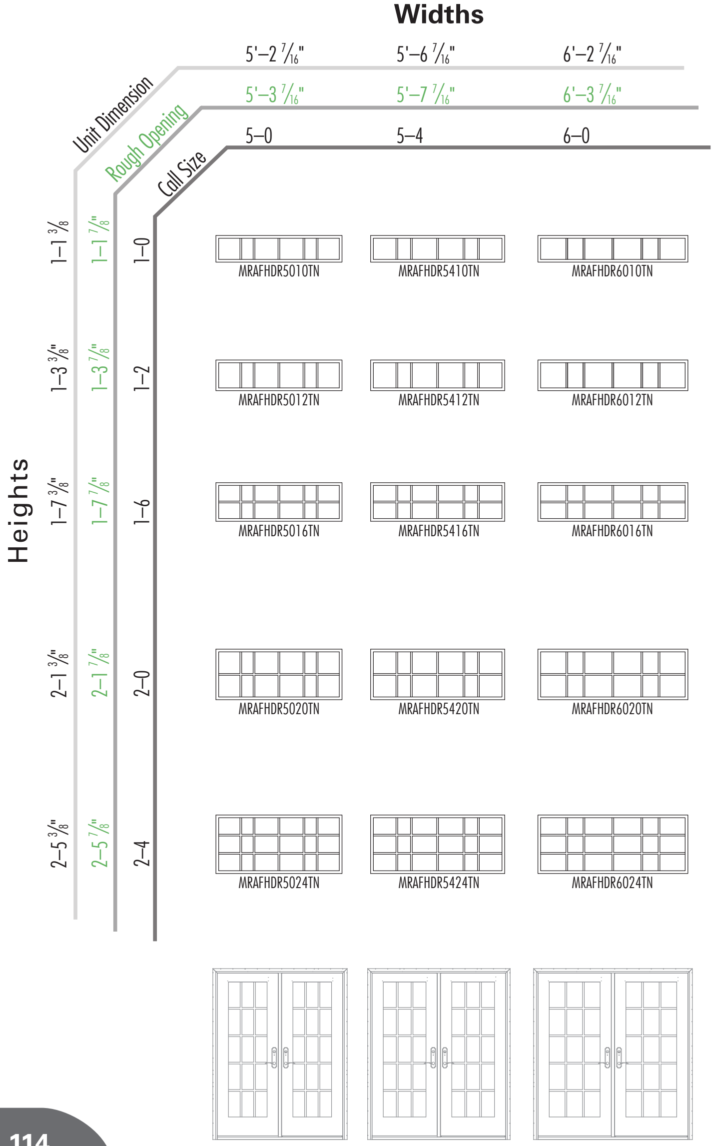
Optional Renaissance Grille Pattern

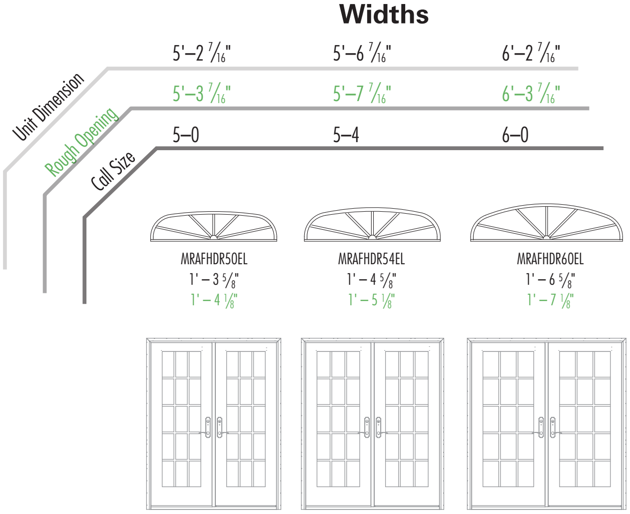


French Inswing Doors – 2- Panel Operating, Transoms, Elliptical & Circle Head Units









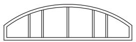
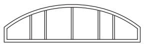
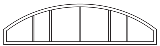
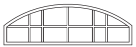
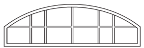
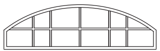
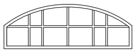
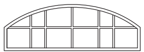
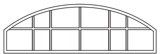
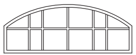
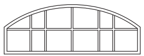
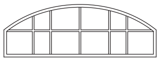
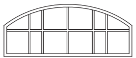
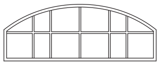
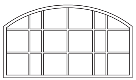
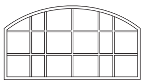
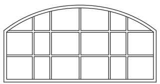
Standard Colonial Grille Pattern

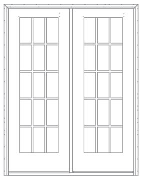
Widths

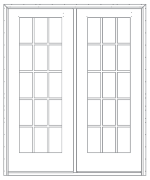
Heights

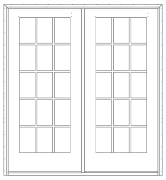
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

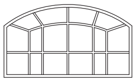
Unit Dimension	5'–2 7/16"	5'–6 7/16"	6'–2 7/16"
Rough Opening	5'–3 7/16"	5'–7 7/16"	6'–3 7/16"
Call Size	5–0	5–4	6–0
0–6	 MRAFHDR5006AHTN 1' - 5 3/4" 1' - 6 1/4"	 MRAFHDR5406AHTN 1' - 6 7/16" 1' - 6 15/16"	 MRAFHDR6006AH 1' - 7 3/4" 1' - 8 1/4"
0–10	 MRAFHDR5010AHTN 1' - 9 3/4" 1' - 10 1/4"	 MRAFHDR5410AHTN 1' - 10 7/16" 1' - 10 15/16"	 MRAFHDR6010AH 1' - 11 3/4" 2' - 0 1/4"
1–0	 MRAFHDR5010AHTN 1' - 11 3/4" 2' - 0 1/4"	 MRAFHDR5410AHTN 2' - 0 7/16" 2' - 0 15/16"	 MRAFHDR6010AH 2' - 1 3/4" 2' - 2 1/4"
1–2	 MRAFHDR5012AHTN 2' - 1 3/4" 2' - 2 1/4"	 MRAFHDR5412AHTN 2' - 2 7/16" 2' - 2 15/16"	 MRAFHDR6012AH 2' - 3 3/4" 2' - 4 1/4"
1–6	 MRAFHDR5016AHTN 2' - 5 3/4" 2' - 6 1/4"	 MRAFHDR5416AHTN 2' - 6 7/16" 2' - 6 15/16"	 MRAFHDR6016AH 2' - 7 3/4" 2' - 8 1/4"
2–0	 MRAFHDR5020AHTN 2' - 11 3/4" 3' - 0 1/4"	 MRAFHDR5420AHTN 3' - 0 7/16" 3' - 0 15/16"	 MRAFHDR6020AH 3' - 1 3/4" 3' - 2 1/4"

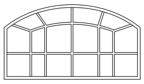


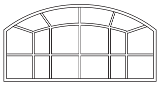




Optional Renaissance Grille Pattern





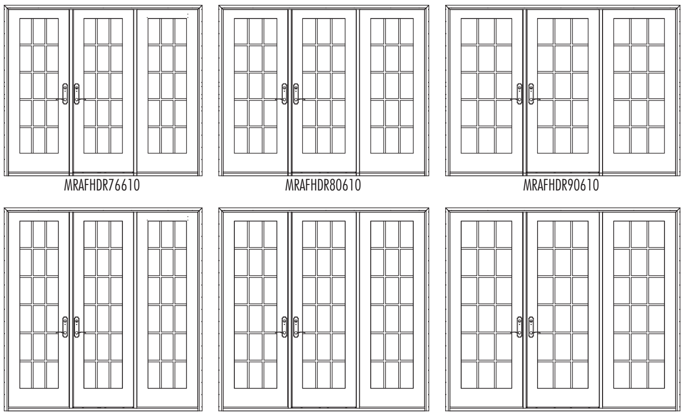


French Inswing Doors – 3- Panel Operating, Elliptical & Transom Units

Widths

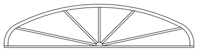
Heights

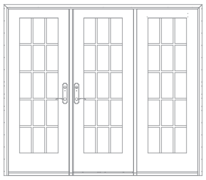
		Unit Dimension	7'–10 1/16"	8'–4 1/16"	9'–4 1/16"
		Rough Opening	7'–11 1/16"	8'–5 1/16"	9'–5 1/16"
Unit Dimension	Rough Opening	Call Size	7–6	8–0	9–0
6–10 11/16"	6–11 3/16"	6–10	MRAFHDR76610	MRAFHDR80610	MRAFHDR90610
8–2 11/16"	8–3 3/16"	8–0	MRAFHDR7680	MRAFHDR8080	MRAFHDR9080



Widths

Unit Dimension	7'–10 1/16"
Rough Opening	7'–11 1/16"
Call Size	7–6
	MRAFHDR76EL 1' – 11 1/2" 2' – 0"

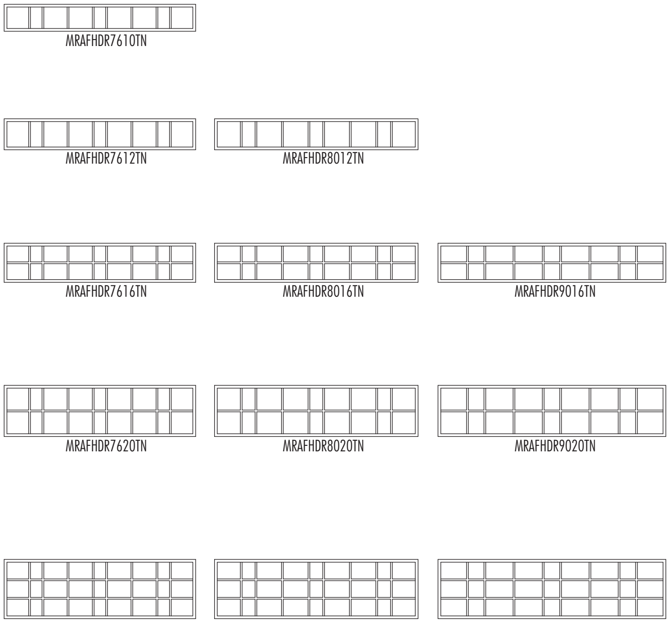


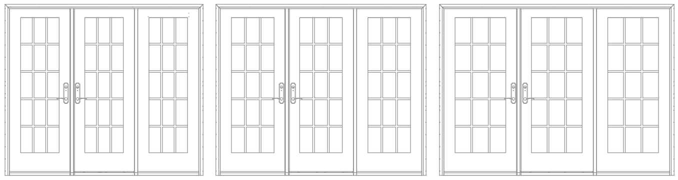


Widths

Heights

		Unit Dimension	7'–10 1/16"	8'–4 1/16"	9'–4 1/16"
		Rough Opening	7'–11 1/16"	8'–5 1/16"	9'–5 1/16"
Unit Dimension	Rough Opening	Call Size	7–6	8–0	9–0
1–1 3/8	1–1 7/8	1–0	MRAFHDR7610TN		
1–3 3/8"	1–3 7/8"	1–2	MRAFHDR7612TN	MRAFHDR8012TN	
1–7 3/8"	1–7 7/8"	1–6	MRAFHDR7616TN	MRAFHDR8016TN	MRAFHDR9016TN
2–1 3/8"	2–1 7/8"	2–0	MRAFHDR7620TN	MRAFHDR8020TN	MRAFHDR9020TN
2–5 3/8"	2–5 7/8"	2–4	MRAFHDR7624TN	MRAFHDR8024TN	MRAFHDR9024TN





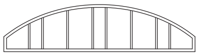
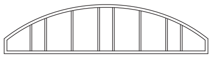
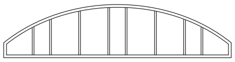
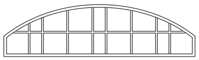
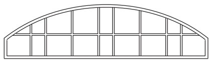
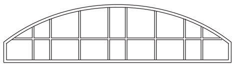
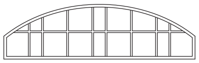
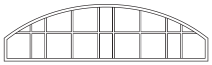
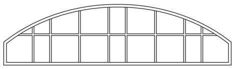
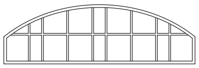
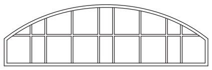
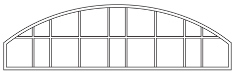
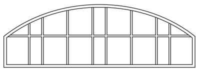
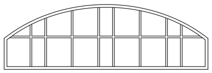
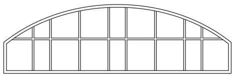
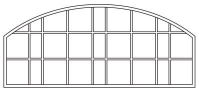
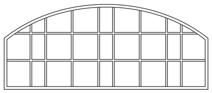
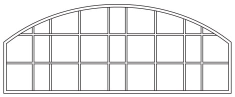
Standard Colonial Grille Pattern

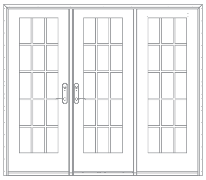
Widths

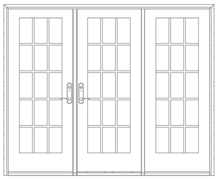
Heights

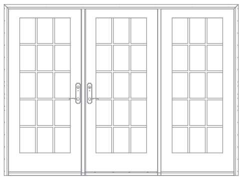
Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

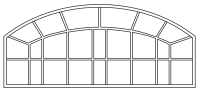
Unit Dimension	7'–10 1/16"	8'–4 1/16"	9'–4 1/16"
Rough Opening	7'–11 1/16"	8'–5 1/16"	9'–5 1/16"
Call Size	7–6	8–0	9–0
0–6	 MRAFHDR7606AH 1' - 11 1/16" 1' - 11 9/16"	 MRAFHDR8006AH 2' - 0 1/16" 2' - 0 9/16"	 MRAFHDR9006AH 2' - 2 1/16" 2' - 2 9/16"
0–10	 MRAFHDR76010AH 2' - 3 1/16" 2' - 3 9/16"	 MRAFHDR80010AH 2' - 4 1/16" 2' - 4 9/16"	 MRAFHDR90010AH 2' - 6 1/16" 2' - 6 9/16"
1–0	 MRAFHDR7610AH 2' - 5 1/16" 2' - 5 9/16"	 MRAFHDR8010AH 2' - 6 1/16" 2' - 6 9/16"	 MRAFHDR9010AH 2' - 8 1/16" 2' - 8 9/16"
1–2	 MRAFHDR7612AH 2' - 7 1/16" 2' - 7 9/16"	 MRAFHDR8012AH 2' - 8 1/16" 2' - 8 9/16"	 MRAFHDR9012AH 2' - 10 1/16" 2' - 10 9/16"
1–6	 MRAFHDR7616AH 2' - 11 1/16" 2' - 11 9/16"	 MRAFHDR8016AH 3' - 0 1/16" 3' - 0 9/16"	 MRAFHDR9016AH 3' - 2 1/16" 3' - 2 9/16"
2–0	 MRAFHDR7620AH 3' - 5 1/16" 3' - 5 9/16"	 MRAFHDR8020AH 3' - 6 1/16" 3' - 6 9/16"	 MRAFHDR9020AH 3' - 8 1/16" 3' - 8 9/16"

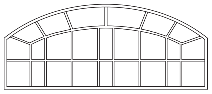


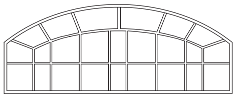




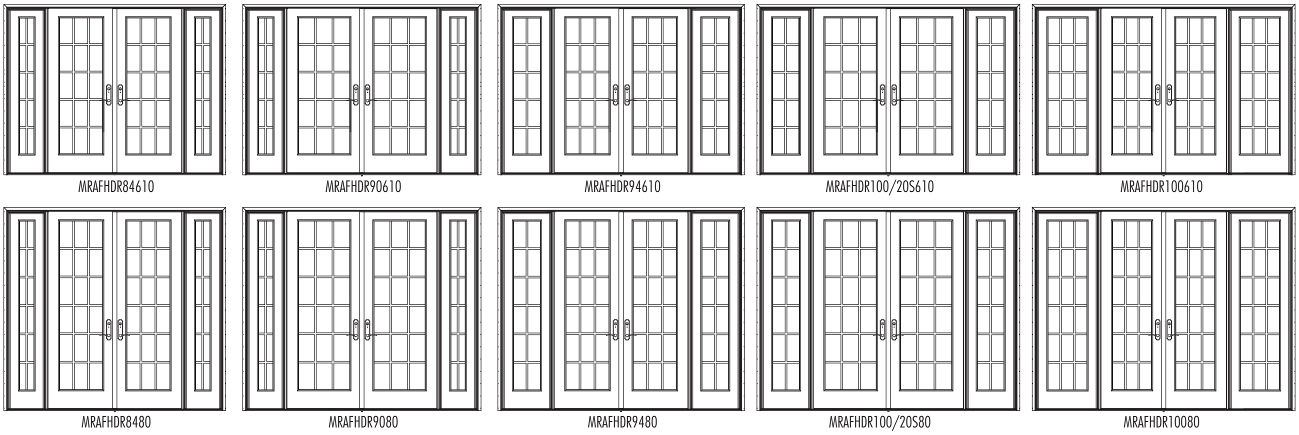
Optional Renaissance Grille Pattern







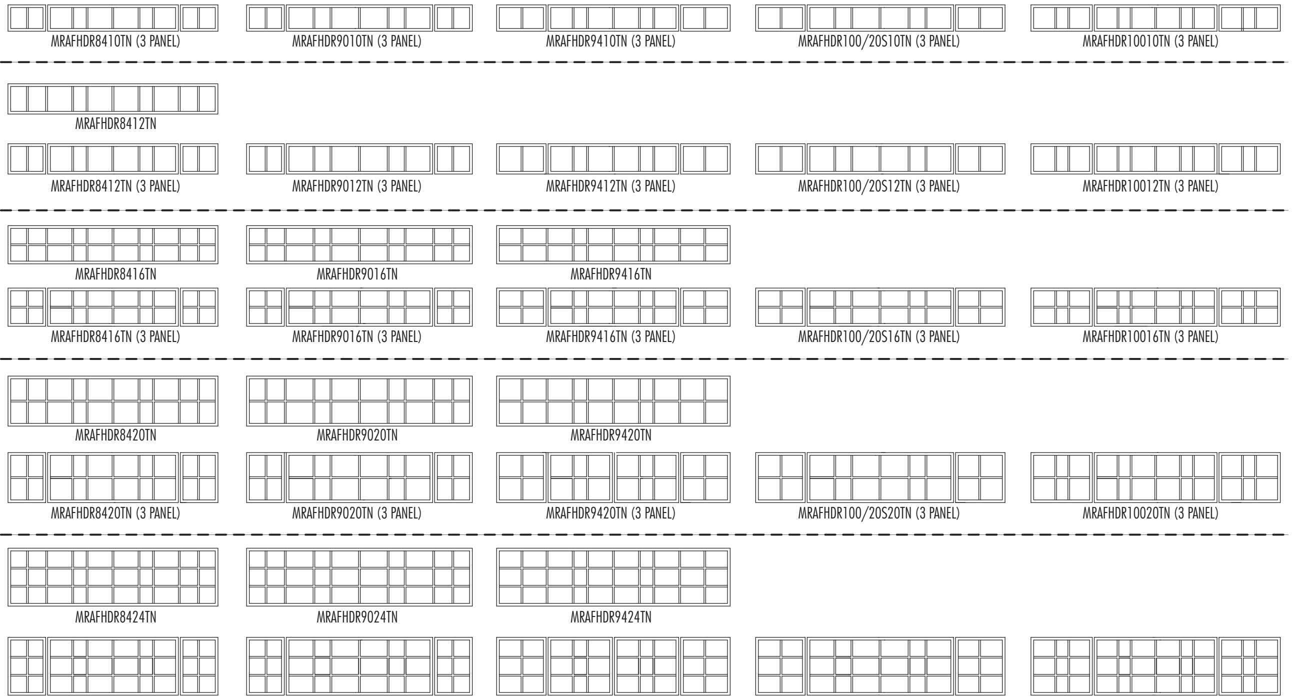
French Inswing Doors – 4-Panel Operating & Transom Units



Widths

Heights

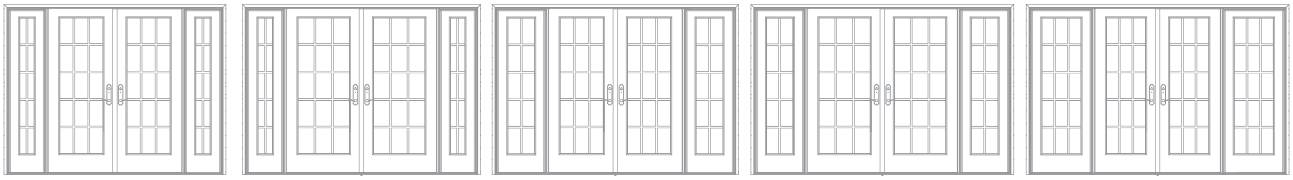
Unit Dimension	Rough Opening	Call Size	8'–9 11/16" 8'–10 11/16" 8–4	9'–5 11/16" 9'–6 11/16" 9–0	9'–9 11/16" 9'–10 11/16" 9–4	10'–5 11/16" 10'–6 11/16" 10–0/20	10'–5 11/16" 10'–6 11/16" 10–0
6–10 11/16"	6–11 3/16"	6–10	MRAFHDR84610	MRAFHDR90610	MRAFHDR94610	MRAFHDR100/20S610	MRAFHDR100610
8–2 11/16"	8–3 3/16"	8–0	MRAFHDR8480	MRAFHDR9080	MRAFHDR9480	MRAFHDR100/20S80	MRAFHDR10080



Widths

Heights

Unit Dimension	Rough Opening	Call Size	8'–9 11/16" 8'–10 11/16" 8–4	9'–5 11/16" 9'–6 11/16" 9–0	9'–9 11/16" 9'–10 11/16" 9–4	10'–5 11/16" 10'–6 11/16" 10–0/20	10'–5 11/16" 10'–6 11/16" 10–0
1–1 3/8"	1–1 7/8"	1–0	MRAFHDR8410TN (3 PANEL)	MRAFHDR9010TN (3 PANEL)	MRAFHDR9410TN (3 PANEL)	MRAFHDR100/20S10TN (3 PANEL)	MRAFHDR10010TN (3 PANEL)
1–3 3/8"	1–3 7/8"	1–2	MRAFHDR8412TN MRAFHDR8412TN (3 PANEL)	MRAFHDR9012TN (3 PANEL)	MRAFHDR9412TN (3 PANEL)	MRAFHDR100/20S12TN (3 PANEL)	MRAFHDR10012TN (3 PANEL)
1–7 3/8"	1–7 7/8"	1–6	MRAFHDR8416TN MRAFHDR8416TN (3 PANEL)	MRAFHDR9016TN MRAFHDR9016TN (3 PANEL)	MRAFHDR9416TN MRAFHDR9416TN (3 PANEL)	MRAFHDR100/20S16TN (3 PANEL)	MRAFHDR10016TN (3 PANEL)
2–1 3/8"	2–1 7/8"	2–0	MRAFHDR8420TN MRAFHDR8420TN (3 PANEL)	MRAFHDR9020TN MRAFHDR9020TN (3 PANEL)	MRAFHDR9420TN MRAFHDR9420TN (3 PANEL)	MRAFHDR100/20S20TN (3 PANEL)	MRAFHDR10020TN (3 PANEL)
2–5 3/8"	2–5 7/8"	2–4	MRAFHDR8424TN MRAFHDR8424TN (3 PANEL)	MRAFHDR9024TN MRAFHDR9024TN (3 PANEL)	MRAFHDR9424TN MRAFHDR9424TN (3 PANEL)	MRAFHDR100/20S24TN (3 PANEL)	MRAFHDR10024TN (3 PANEL)



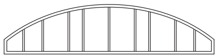
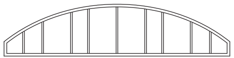
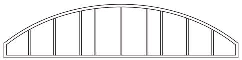
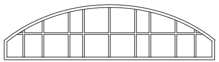
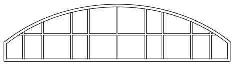
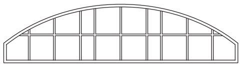
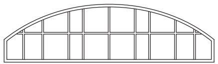
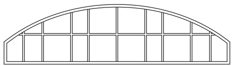
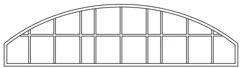
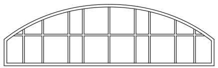
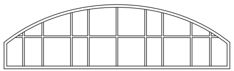
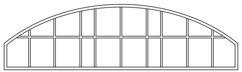
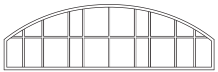
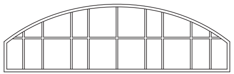
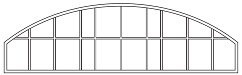
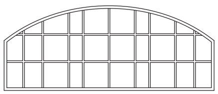
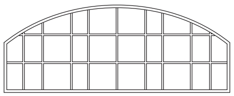
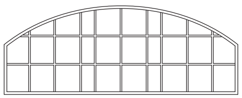
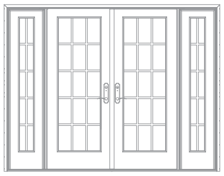
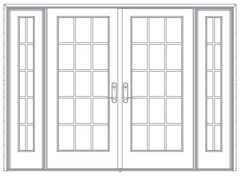
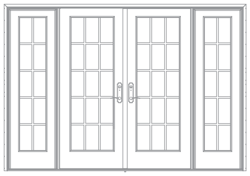
Standard Colonial Grille Pattern

Widths

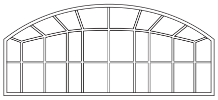
Heights

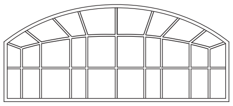
Unit height dimension is listed first under individual windows

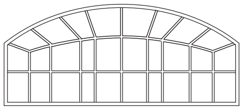
Rough Opening height dimension is listed second under individual windows

Unit Dimension	8'–9 11/16"	9'–5 11/16"	9'–9 11/16"
Rough Opening	8'–10 11/16"	9'–6 11/16"	9'–10 11/16"
Call Size	8–4	9–0	9–4
0–6	 MRAFHDR8406AH 2' - 1" 2' - 1 1/2"	 MRAFHDR9006AH 2' - 2 5/16" 2' - 2 13/16"	 MRAFHDR9406AH 2' - 3" 2' - 3 1/2"
0–10	 MRAFHDR84010AH 2' - 5" 2' - 5 1/2"	 MRAFHDR90010AH 2' - 6 5/16" 2' - 6 13/16"	 MRAFHDR94010AH 2' - 7" 2' - 7 1/2"
1–0	 MRAFHDR8410AH 2' - 7" 2' - 7 1/2"	 MRAFHDR9010AH 2' - 8 5/16" 2' - 8 13/16"	 MRAFHDR9410AH 2' - 9" 2' - 9 1/2"
1–2	 MRAFHDR8412AH 2' - 9" 2' - 9 1/2"	 MRAFHDR9012AH 2' - 10 5/16" 2' - 10 13/16"	 MRAFHDR9412AH 2' - 11" 2' - 11 1/2"
1–6	 MRAFHDR8416AH 3' - 1" 3' - 1 1/2"	 MRAFHDR9016AH 3' - 2 5/16" 3' - 2 13/16"	 MRAFHDR9416AH 3' - 3" 3' - 3 1/2"
2–0	 MRAFHDR8420AH 3' - 7" 3' - 7 1/2"	 MRAFHDR9020AH 3' - 8 5/16" 3' - 8 13/16"	 MRAFHDR9420AH 3' - 9" 3' - 9 1/2"
			

Optional Renaissance Grille Pattern





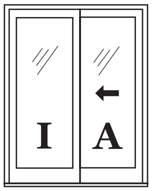


French Sliding Door – Net Clear & Daylight Opening Dimensions

DOOR OPERATION CONFIGURATION OPTIONS

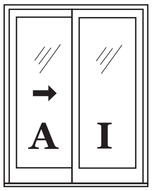
EXTERIOR VIEW OF DOORS

Double Panel



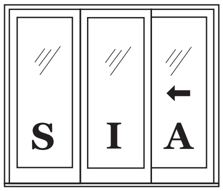
Double Panel
ACTIVE RIGHT

Double Panel



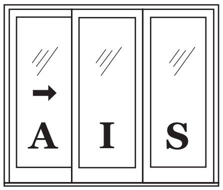
Double Panel
ACTIVE LEFT

Triple Panel



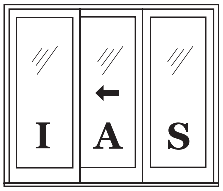
Triple Panel, Right
ACTIVE RIGHT

Triple Panel



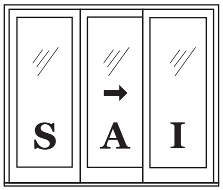
Triple Panel, Left
ACTIVE LEFT

Triple Panel



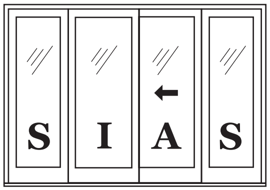
Triple Panel, Right
ACTIVE CENTER

Triple Panel



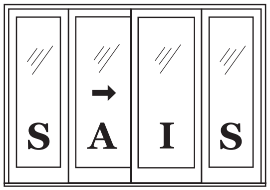
Triple Panel, Left
ACTIVE CENTER

Quad Panel



Quad Panel, Center
ACTIVE RIGHT

Quad Panel



Quad Panel, Center
ACTIVE LEFT

I=inactive panel S=Fixed panel A=active panel.

Door Units

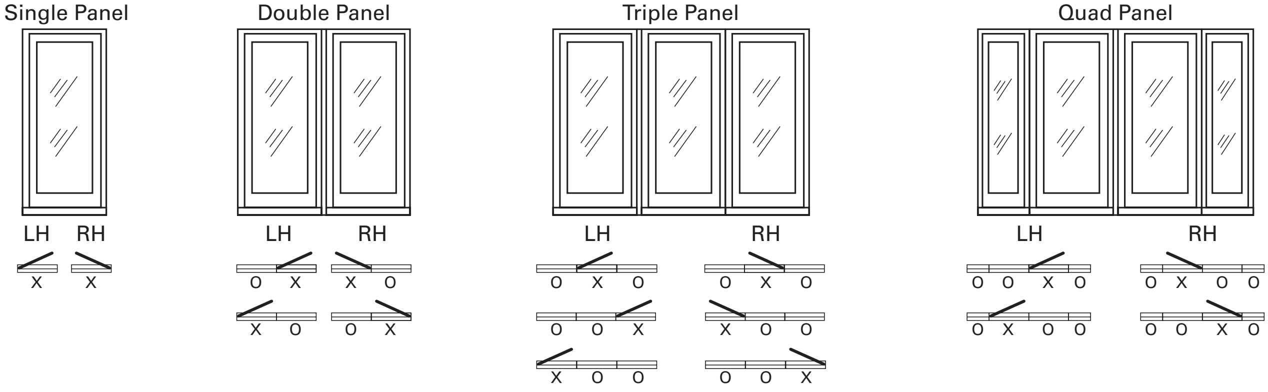
Call Size	Number of Panels	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRAFSDR50610	2	22.984	79.359	12.67	17.5
5080	2	22.984	95.359	15.22	21.7
MRAFSDR54610	2	24.984	79.359	13.77	19.4
5480	2	24.984	95.359	16.54	24.0
MRAFSDR60610	2	28.984	79.359	15.97	23.0
6080	2	28.984	95.359	19.19	28.6
MRAFSDR76610	3	22.984	79.359	12.67	26.3
7680	3	22.984	95.359	15.22	32.6
MRAFSDR80610	2	40.984	79.359	22.59	34.1
8080	2	40.984	95.359	27.14	42.3
MRAFSDR80610	3	24.984	79.359	13.77	29.0
8080	3	24.984	95.359	16.54	36.0
MRAFSDR84610	4	24.984	79.359	13.77	25.8
8480	4	24.984	95.359	16.54	32.0
MRAFSDR90610	3	28.984	79.359	15.97	34.6
9080	3	28.984	95.359	19.19	42.9
MRAFSDR90610	4	28.984	79.359	15.97	27.5
9080	4	28.984	95.359	19.19	36.6
MRAFSDR94610	4	24.984	79.359	13.77	31.3
9480	4	24.984	95.359	16.54	38.9
MRAFSDR100610	4	22.984	79.359	12.67	35.0
1080	4	22.984	95.359	15.22	43.5
MRAFSDR100/20610	4	28.984	79.359	15.97	35.0
100/2080	4	28.984	95.359	19.19	43.5

Fixed Panel Units

Call Size	Daylight Opening S.F.
MRAFSDRTN16 610	3.2
80	4.0
MRAFSDRTN20 610	6.0
80	7.4
MRAFSDRTN26610	8.8
80	10.9
MRAFSDRTN28 610	9.7
80	12.0
MRAFSDRTN30 610	11.5
80	14.3
MRAFSDRTN40 610	17.1
80	21.2

DOOR OPERATION CONFIGURATION OPTIONS

EXTERIOR VIEW OF DOORS



O=Fixed panel **X**= Operable panel **LH**=Left hand swing **RH**=Right hand swing

Door Units

Call Size	Number of Panels	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRAHPDR 26610	1	29.188	80.063	16.23	8.8
2680	1	29.188	96.063	19.47	10.9
MRAHPDR 28610	1	31.188	80.063	17.34	9.7
2880	1	31.188	96.063	20.81	12.0
MRAHPDR 30610	1	35.188	80.063	19.56	11.5
3080	1	35.188	96.063	23.47	14.3
MRAHPDR 42610	2	31.188	80.063	17.34	12.9
4280	2	31.188	96.063	20.81	16.0
MRAHPDR 46610	2	35.188	80.063	19.56	14.7
4680	2	35.188	96.063	23.47	18.3
MRAHPDR 48610	2	31.188	80.063	17.34	15.7
4880	2	31.188	96.063	20.81	19.4
MRAHPDR 50610	2	35.188	80.063	19.56	17.5
5080	2	35.188	96.063	23.47	21.7
MRAHPDR 50E610	2	29.188	80.063	16.23	17.5
50E80	2	29.188	96.063	19.47	21.7
MRAHPDR 54610	2	31.188	80.063	17.34	19.4
5480	2	31.188	96.063	20.81	24.0
MRAHPDR 56610	3	29.188	80.063	16.23	15.2
5680	3	29.188	96.063	19.47	18.9
MRAHPDR 58610	3	31.188	80.063	17.34	16.1
5880	3	31.188	96.063	20.81	20.0
MRAHPDR 60610	2	35.188	80.063	19.56	23.0
6080	2	35.188	96.063	23.47	28.6

Call Size	Number of Panels	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRAHPDR 60610	3	35.188	80.063	19.56	18.0
6080	3	35.188	96.063	23.47	22.3
MRAHPDR 66610	3	29.188	80.063	16.23	20.7
6680	3	29.188	96.063	19.47	25.7
MRAHPDR68610	3	31.188	80.063	17.34	21.7
6880	3	31.188	96.063	20.81	26.9
MRAHPDR 70610	3	35.188	80.063	19.56	23.5
7080	3	35.188	96.063	23.47	29.2
MRAHPDR 76610	3	29.188	80.063	16.23	26.3
7680	3	29.188	96.063	19.47	32.6
MRAHPDR80610	3	31.188	80.063	17.34	29.0
8080	3	31.188	96.063	20.81	36.0
MRAHPDR84610	4	31.188	80.063	17.34	25.8
8480	4	31.188	96.063	20.81	32.0
MRAHPDR 90610	3	35.188	80.063	19.56	34.6
9080	3	35.188	96.063	23.47	42.9
MRAHPDR 90610	4	35.188	80.063	19.56	29.5
9080	4	35.188	96.063	23.47	36.6
MRAHPDR94610	4	31.188	80.063	17.34	31.3
9480	4	31.188	96.063	20.81	38.9
MRAHPDR100610	4	29.188	80.063	16.23	35.0
1080	4	29.188	96.063	19.47	43.5
MRAHPDR100/20610	4	35.188	80.063	19.56	35.0
100/2080	4	35.188	96.063	23.47	43.5

Fixed Panel Units

Call Size	Daylight Opening S.F.
MRAHPDR16 610P	3.2
80	4.0
MRAHPDR20 610P	6.0
80	7.4
MRAHPDR26 610P	8.8
80	10.9

Call Size	Daylight Opening S.F.
MRAHPDR28 610P	9.7
80	12.0
MRAHPDR30 610P	11.5
80	14.3
MRAHPDR50 610P	17.5
80	21.7

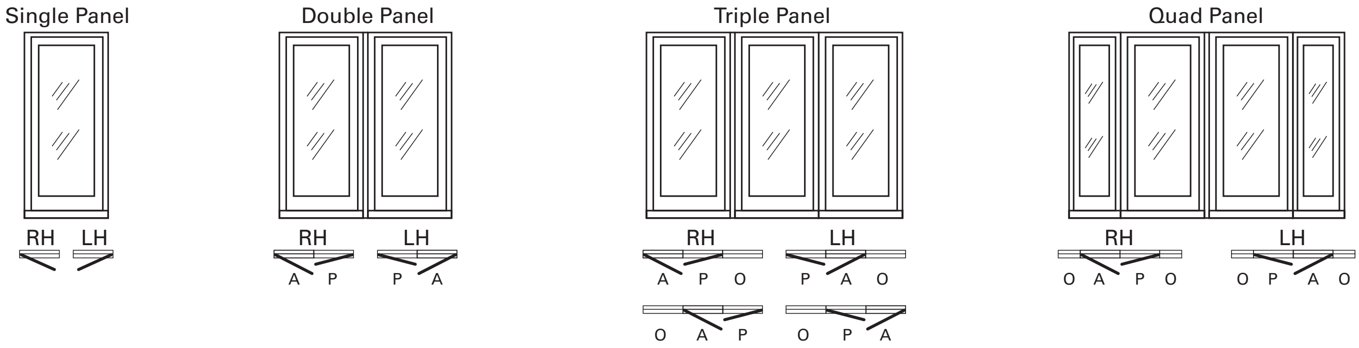
Call Size	Daylight Opening S.F.
MRAHPDR54 610P	19.4
80	24.0
MRAHPDR60 610P	23.0
80	28.6
MRAHPDR76 610P	26.3
80	32.6

Call Size	Daylight Opening S.F.
MRAHPDR80 610P	29.0
80	36.0
MRAHPDR90 610P	34.6
80	42.9

French Outswing Door – Net Clear & Daylight Opening Dimensions

DOOR OPERATION CONFIGURATION OPTIONS

EXTERIOR VIEW OF DOORS



A= Active panel **P**=Passive panel **O**=Fixed panel **LH**=Left hand swing **RH**=Right hand swing

Door Units

Call Size	Number of Panels	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRAFHDR 26610	1	29.188	79.312	16.08	17.5
2680	1	29.188	95.312	19.32	21.7
MRAFHDR 28610	1	31.188	79.312	17.18	19.4
2880	1	31.188	95.312	20.64	24.0
MRAFHDR 30610	1	35.188	79.312	19.38	23.0
3080	1	35.188	95.312	23.29	28.6
MRAFHDR 50610	2	29.188	79.312	16.08	17.5
5080	2	29.188	95.312	19.32	21.7
MRAFHDR 54610	2	31.188	79.312	17.18	19.4
5480	2	31.188	95.312	20.64	24.0
MRAFHDR 60610	2	35.188	79.312	19.38	23.0
6080	2	35.188	95.312	23.29	28.6
MRAFHDR 76610	3	29.188	79.312	16.08	26.3
7680	3	29.188	95.312	19.32	32.6
MRAFHDR80610	3	31.188	79.312	17.18	29.0
8080	3	31.188	95.312	20.64	36.0
MRAFHDR84610	4	31.188	79.312	17.18	26.8
8480	4	31.188	95.312	20.64	32.0
MRAFHDR 90610	3	35.188	79.312	19.38	34.6
9080	3	35.188	95.312	23.29	42.9
MRAFHDR 90610	4	35.188	79.312	19.38	29.5
9080	4	35.188	95.312	23.29	36.6
MRAFHDR94610	4	31.188	79.312	17.18	31.3
9480	4	31.188	95.312	20.64	38.9
MRAFHDR100610	4	29.188	79.312	16.08	35.0
1080	4	29.188	95.312	19.32	43.5
MRAFHDR100/20610	4	35.188	79.312	19.38	35.0
100/2080	4	35.188	95.312	23.29	43.5

Fixed Panel Units

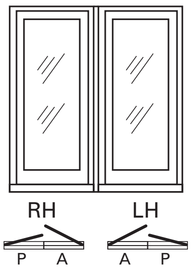
Call Size	Daylight Opening S.F.
MRFHPDR16 610P	3.2
80	4.0
MRAFHDR20 610P	6.0
80	7.4
MRAFHDR26 610P	8.8
80	10.9
MRAFHDR28 610P	9.7
80	12.0
MRAFHDR30 610P	11.5
80	14.3
MRAFHDR50 610P	17.5
80	21.7

Call Size	Daylight Opening S.F.
MRAFHDR54 610P	19.4
80	24.0
MRAFHDR60 610P	23.0
80	28.6
MRAFHDR76 610P	26.3
80	32.6
MRAFHDR80 610P	29.0
80	36.0
MRAFHDR90 610P	34.6
80	42.9

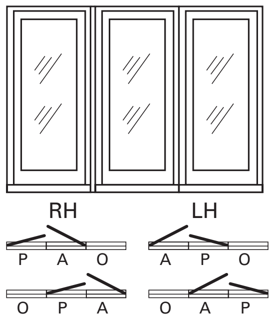
DOOR OPERATION CONFIGURATION OPTIONS

EXTERIOR VIEW OF DOORS

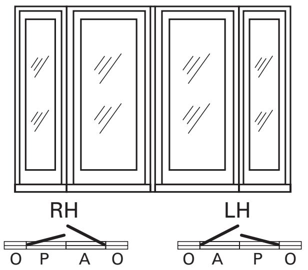
Double Panel



Triple Panel



Quad Panel



A= Active panel **P**=Passive panel **O**=Fixed panel **LH**=Left hand swing **RH**=Right hand swing

Door Units

Call Size	Number of Panels	Clear Opening Width	Clear Opening Height	Clear Opening S.F.	Daylight Opening S.F.
MRAFHDR 50610	2	29.188	80.063	14.23	17.5
5080	2	29.188	96.063	19.47	21.7
MRAFHDR 54610	2	31.188	80.063	17.34	19.4
5480	2	31.188	96.063	20.81	24.0
MRAFHDR 60610	2	35.188	80.063	19.56	23.0
6080	2	35.188	96.063	23.47	28.6
MRAFHDR 76610	3	29.188	80.063	16.23	26.3
7680	3	29.188	96.063	19.47	32.6
MRAFHDR80610	3	31.188	80.063	17.34	29.0
8080	3	31.188	96.063	20.81	36.0
MRAFHDR84610	4	31.188	80.063	17.34	25.8
8480	4	31.188	96.063	20.81	32.0
MRAFHDR 90610	3	35.188	80.063	19.56	34.6
9080	3	35.188	96.063	23.47	42.9
MRAFHDR 90610	4	35.188	80.063	19.56	29.5
9080	4	35.188	96.063	23.47	36.6
MRAFHDR94610	4	31.188	80.063	17.34	31.3
9480	4	31.188	96.063	20.81	38.9
MRAFHDR100610	4	29.188	80.063	19.56	35.0
1080	4	29.188	96.063	23.47	43.5
MRAFHDR100/20610	4	35.188	80.063	16.23	35.0
100/2080	4	35.188	96.063	19.47	43.5

Fixed Panel Units

Call Size	Daylight Opening S.F.
MRAFHDR16 610P	3.2
80	4.0
MRAFHDR20 610P	6.0
80	7.4
MRAFHDR26 610P	8.8
80	10.9
MRAFHDR28 610P	9.7
80	12.0
MRAFHDR30 610P	23.0
80	28.6
MRAFHDR50 610P	17.5
80	21.7

Call Size	Daylight Opening S.F.
MRAFHDR54 610P	19.4
80	24.0
MRAFHDR60 610P	23.0
80	28.6
MRAFHDR76 610P	26.3
80	32.6
MRAFHDR80 610P	29.0
80	36.0
MRAFHDR90 610P	34.6
80	42.9