

Volume control for the outdoors.

Traffic. Barking dogs. Booming nightlife. There are thousands of things that can interrupt the peace and quiet of your home. But with the right windows and insulated glass units (IGU), you can help keep the noisy world outside.

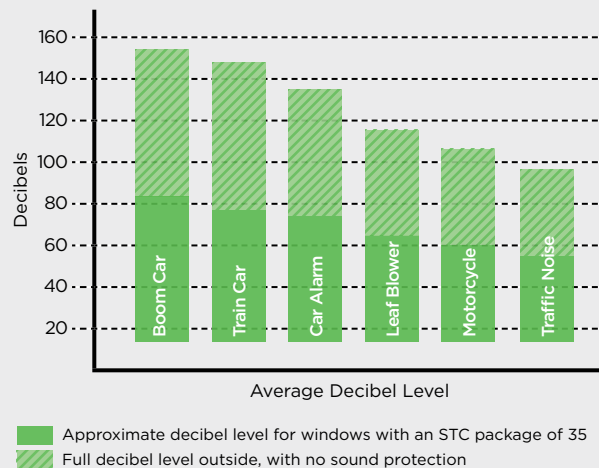
Noise travels in two different ways, both through the air, and through materials like glass. The measurement of Sound Transmission Class (STC) is one way of understanding how much this noise can travel. The higher the STC number, the better a window is at keeping noise on the outside.

4 ways Ply Gem[®] Insulated Glass Units (IGU) block out noise:

- **Asymmetrical Construction:** Glass panels of different thicknesses in our IGUs block a greater range of sound waves than panels of the same thickness. One panel blocks low frequency sounds and the other blocks high frequency sounds.
- **Air Space:** The air space between our glass panels also helps block sound. The wider the air space in an IGU, the better at reducing noise levels.

Noise Levels

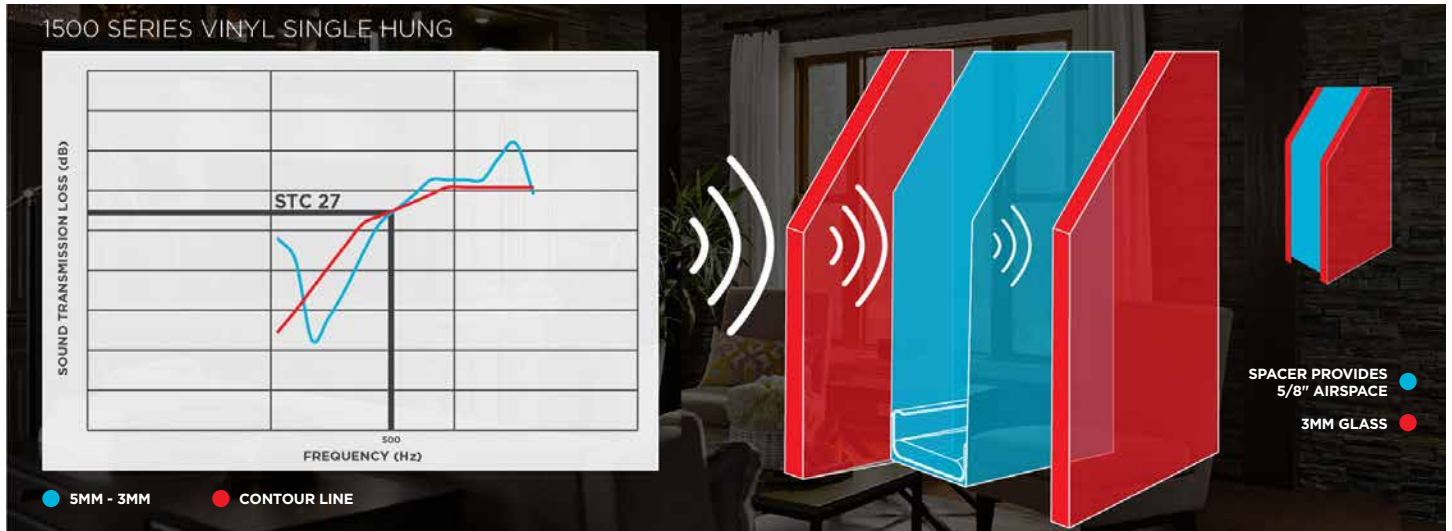
A standard Ply Gem[®] 1500 Vinyl Collection single hung window with a single strength dual pane IGU is rated around STC 26. By using a Ply Gem sound resistant glass package, STC ratings for a 1500 single hung come in up to 35. Research shows that windows with an STC rating of 35 can reduce exterior noise by 43%, which means loud noises come to a comfortable level.



- **Glass Thickness:** Like a thick wall, thicker glass helps to reduce sound better than thin glass. When available, you can upgrade the thickness of your glass on glass packages to help reduce outside noise.
- **Lamination:** Laminated glass in windows helps to absorb sound waves to prevent sound from traveling through the glass.

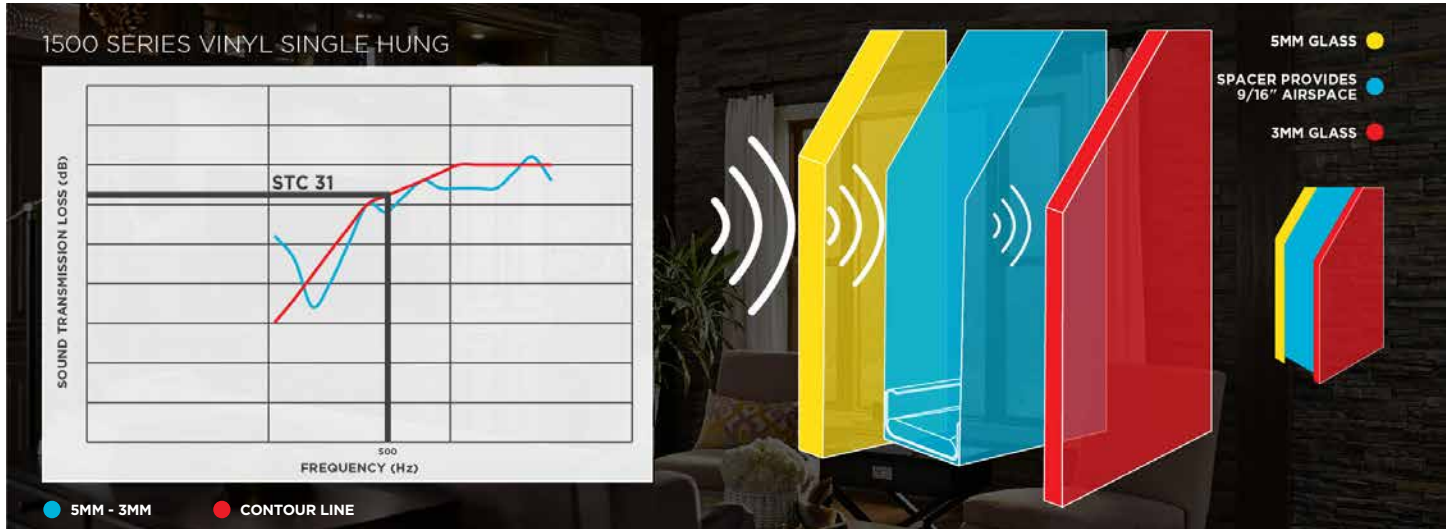
Noise Control With **Double Strength** Glass

A 7/8" dual pane IGU with double strength glass



Noise Control With **Asymmetric** Glass

Asymmetric thickness 7/8" dual pane IGU for improved sound control



Noise Control With **Asymmetric Laminated** Glass

Laminated asymmetric thickness in a dual pane unit for superior sound control



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