

Value in BRC Laminated Glass vs Tempered Glass for Wall Projects

Background:

- a) Laminated glass was first invented in 1903, and has been used in windshields of cars since 1930.
- b) Has equal or better cost to tempered glass when used with the BRC stocking program.
- c) Stocked in Canada and USA in standard and large sheet format.
- d) Can be customized in size for large projects to minimize cost and vertical seams.
- e) BRC Laminated Glass is offered with .7mm interlayer made of PVB (polyvinyl butyrate) that binds 2 equal pieces of glass sheet together to make a stronger, safer sheet of glass. Offered in 3/8" (10mm) or 1/2" (12mm) thicknesses.

Benefits

- 1) Provides safety: Laminated glass prevents shards and pieces of glass from falling when a sheet broken or shattered.
- 2) Provides security: Laminated glass contributes significantly to the security of offices and commercial interiors because unlike tempered glass broken sheets which shatter into small pieces, broken laminated glass sheets remain in place like a windshield on a car.
- 3) Provides Sound Attenuation:
 - i) BRC laminated glass significantly contributes to sound reduction (over 2dB) when compared to tempered glass at no additional cost when used with BRC stocking program.
 - ii) BRC Laminated glass is offered with both PVB and PVB acoustic interlayers. PVB Acoustic enhances sound reduction by more than 50% (12 dB) over standard or tempered glass sheets.
 - iii) Can be used in frame glass doors to further enhance acoustic properties of the wall system.
- 4) Provides Significant UV Reduction: BRC Laminated Glass blocks 99% or more UV radiation as compared to standard tempered glass.
- 5) Provides Project De-Risking: Projects with BRC laminated glass have fast and easy recovery times for unforeseen site challenges like measurement errors, drywall installation tolerances, floor variances or general contracting challenges regardless of fault.
 - i) **Installation:** glass can be cut during an installation with minimal tools and training.
 - ii) **Time sensitive projects or projects with restricted access:** extra glass stock sheets can be shipped to site for immediate resizing and restocked later.
 - iii) **Holes or fixes:** glass can be drilled on site with glass cutting tools and bits. Unlike tempered glass, scratches can also be repaired. Repairs of a simple nature are also possible.
 - iv) **Warping:** BRC laminated glass has minimal warping when compared to tempered glass.
- 6) Highly regulated and specified: BRC Laminated glass with its .7mm PVB interlayer is considered Class 2 safety glass in Europe and other countries allowing it to be used for exterior walls, full height wall applications and large sheet installations.