

LoE-452[®] + Neat[®]

Quad Silver Low-E glass

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GLASSWORKS

LoE-452[®]+ Neat[®]

The new level of performance

LoE-452 is a quad silver low-E designed to combat the negative aspects of the sun - excessive heat gain, glare and fading - without compromising natural light like a tint. In a typical configuration, LoE-452 boasts a Solar Heat Gain Coefficient (SHGC) of 0.22 with a Visible Light Transmission (VLT) of 50%.

That's a Light to Solar Gain (LSG) ratio of 2.27, well above the recommended ratio of 2.0. It also blocks 99% of the damaging UV that causes fading.

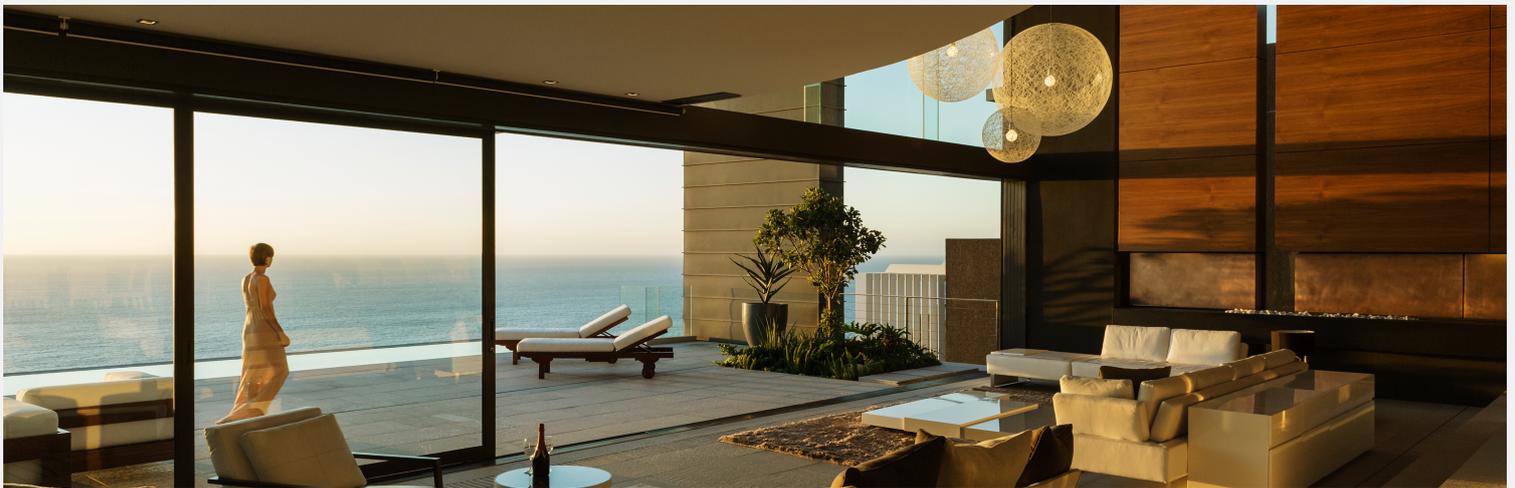
An added layer of comfort

Until now, triple silver low-E was seen as the holy grail in terms of thermal comfort and solar control. With an SHGC of 0.27 being the best achievable in a clear Low-E. Now with the introduction of a quad silver, projects benefit from an SHGC of 0.22. Plus with a U-value of 1.34, LoE-452 also promises to prevent heat from escaping when it is needed.

Thanks to the added Neat[®] coating, it's also low maintenance

What's more, LoE-452 comes standard with Neat technology - a patented invisible titanium dioxide layer with photocatalysis and anti-static properties. Neat makes the surface less conductive than ordinary glass so it attracts less dirt and dust and uses the sun's UV rays to loosen any organic material. Then when it rains, the water 'sheets' off the glass, taking with it the lifted dirt and leaving behind minimal streaks. So windows stay cleaner for longer.

4 layers of silver makes this low-E a clear standout



Performance

Description	24mm clear IGU 6mm Clear 12mm Argon 6mm Clear	Triple silver low-E IGU 6mm LoE ³ -366 12mm Argon 6mm Clear	Quad silver IGU 6mm LoE-452 [®] 12mm Argon 6mm Clear	Quad silver double low-E 6mm LoE-452 [®] 12mm Argon 6mm LoE-i89 [®] (4)
Visible Light Transmission	78%	62%	50%	50%
Solar Heat Gain Coefficient	0.71	0.27	0.22	0.22
U-Value	2.55	1.34	1.34	1.09
Reflectance Exterior	15%	11%	9%	9%