

**TENDER SPECIFICATION**  
**Solar Control sunbelt D50 (double IGU)**



## Solar Control Insulated Glazing

Insulated glazing unit with highly effective solar control coating for optimal visible light transmission providing maximum energy efficiency.

The solar control coating must be available for and compatible with float glass, laminated glass, heat-strengthened glass, and tempered glass.

The solar control coating has to be bendable (convex and concave). The application of ceramic frit or silkscreen in form of lines or dots – even when only in partial areas – has to be technically applicable on the same surface as the solar control coating itself.

- Low-emissivity factory applied coating complying with ASTM C1376 and resulting in a stable, uniform, nearly invisible coating.
- Heat-strengthened glass complying with ASTM C1048, Kind HS.
- Fully tempered glass complying with ASTM C1048, FT and also conform to ANSI Z97.1-2015. All fully tempered glass shall be heat soaked. Submit certification that tempered glass intended for use on the project has been heat soaked tested in accordance with EN 14179.

Minimum IG unit build-up (outer to inner)

6 mm / 1/4" float clear (with solar control D50 oHT #2)  
 13 mm / 1/2" cavity  
 6 mm / 1/4" float clear

Change of glass substrate, glass thickness, and/or build-up and the consequent deviating technical values require a separate calculation and must be shared with the customer.

Glass composition and thicknesses identified are minimum requirement. Where glass manufacturer cannot assure adequate structural performance of insulating glass units - based upon combination of inner/outer lite - assume outer lite alone must satisfy structural requirements.

<u>Glass Values:</u>	Glass Substrate	
	Mid-iron / Float Extra	Low-iron
Visible Light Transmisson (VLT)	50 %	51 %
Visible Light Reflection (external)	30 %	30 %
Visible Light Reflection (internal)	21 %	21 %
U-value (winter)	0.25 (BTU/ft2hF)	0.25 (BTU/ft2hF)
Solar Heat Gain Coefficient (SHGC)	32 %	33 %

Specified Low-E glass: arcon sunbelt D50 oHT

Alternate Low-E glass: \_\_\_\_\_