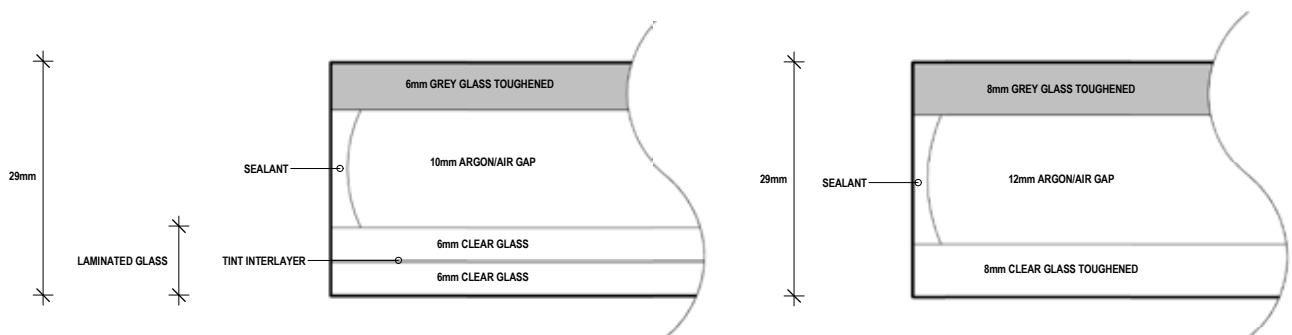


5.2 GLAZING MATERIALS

GLASS ROOF (RRG)

The Libart Retractable Roof utilises specifically designed glass technology. Our choice of glass demands optimal structural strength and safety in the event of breakage. Environmentally, we need to select the most appropriate glass choice to balance the requirements of insulation, solar efficiency and the amount of light transmission. In certain climatic circumstances, internal condensation can occur and is another significant consideration.



The schematic diagrams display two typical profiles of insulated glass units (IGU's) designed to conform to the Libart Retractable Roof and the Australian Standard AS1288.

The final choice of the insulated glass will be dependent on the project, location, design and cost factors.

Example

The solar properties in the table below are for a 28mm IGU with 6mm solar reflective control, toughened glass layer / 14mm argon-air gap and an 8mm (4mm Low-E +4mm) clear laminated layer.

Solar Properties	Grey	Bronze	Blue
Light Transmission %	16	20	34
Solar Transmission %	13	14	17
SHGC	0.20	0.21	0.26
Insulation U W/(m ² °K)	1.6	1.6	2.3
Weight	38kg/m ²	38kg/m ²	38kg/m ²



**On the coast at Istanbul, Turkey,
this retractable roof spans 6.6m by
16.3m and utilises a glass glazing to
a spectacular effect.**