Glass Performance: LightBridge™

Viridian LightBridge™ Insulating Glass Units

Product Name	Nominal Thickness	Visible Trans.	Visible Refl. Out	Visible Refl. In	Solar Trans.	Solar Refl.	UV Trans	U-Value Argon	SHGC	Weight kg/m²	Selectivity
Viridian LightBridge™											
Clear	4+12+4	80	12	13	54	27	49	1.4	0.60	20	1.33
	5+12+5	80	12	13	52	25	46	1.4	0.58	25	1.38
	6+12+6	79	12	13	51	24	43	1.4	0.57	30	1.39
	[redacted]										
Light Grey	5+12+5	61	9	11	39	16	28	1.4	0.46	25	1.33
	6+12+6	57	8	11	36	14	25	1.4	0.43	30	1.33
Grey	4+12+4	50	7	11	35	15	23	1.4	0.41	20	1.22
	5+12+5	43	7	10	30	13	18	1.4	0.36	25	1.19
	6+12+6	37	6	10	27	11	15	1.4	0.33	30	1.12
DecorSatin™	4+12+4	80	12	13	54	27	49	1.4	0.60	20	1.33
	6+12+6	79	12	13	51	24	43	1.4	0.57	30	1.39
	[redacted]										
DecorSatin™ Grey	[redacted]										
	6+12+6	37	6	10	27	11	15	1.4	0.33	30	1.12

WALSHSGLASS
THE GLASS SPECIALIST

Glass Performance: LightBridge next™

Viridian LightBridge next™ Insulating Glass Units

Product Name	Nominal Thickness	Visible Trans.	Visible Refl. Out	Visible Refl. In	Solar Trans.	Solar Refl.	UV Trans	U-Value Argon	SHGC	Weight kg/m²	Selectivity
Viridian LightBridge next™											
Clear	6.5+12+4	79	12	13	49	20	<1	1.4	0.54	25.5	1.46
	6.5+12+5	79	12	13	48	20	<1	1.4	0.54	28	1.46
	6.5+12+6	78	12	13	48	20	<1	1.4	0.54	30.5	1.44
	[redacted]										
Light Grey	6.88+12+4	53	8	11	35	15	<1	1.4	0.41	25.4	1.29
	6.88+12+5	53	8	11	35	15	<1	1.4	0.41	28.4	1.29
	6.88+12+6	52	8	11	34	15	<1	1.4	0.41	30.9	1.27
	6.88+12+8	52	8	11	33	14	<1	1.4	0.41	40.9	1.27
Grey	6.88+12+4	38	6	10	28	13	<1	1.4	0.35	25.4	1.09
	6.88+12+5	38	6	10	28	13	<1	1.4	0.35	28.4	1.09
	6.88+12+6	38	6	10	28	13	<1	1.4	0.35	30.9	1.09
	6.88+12+8	37	6	10	27	13	<1	1.4	0.35	40.9	1.06

The assembly of this product is protected
Typical measured values of Viridian production are provided
All performance data is determined using LBL window 7.5 software, NFRC 100 - 2010 conditions have been used.

Product Name – Glass surfaces are counted from the exterior to the interior of the building.

Nominal Thickness – The glass thickness or the makeup of a Viridian LightBridge next™ unit. The first number is the outer glass thickness, + 12 is the width of the gap, then the thickness of the inner panel of the unit. Thickness tolerances are: ●3-6mm (±0.2mm) ●8-12mm (±0.3mm) ●15mm (±0.5mm) ●19mm (±1.0mm)

Visible Light Transmission – Percentage of visible light passing directly through the glass. The wave length range for visible light is 380 to 780nm. The higher the percentage the more daylight.

Visible Light Reflection – Percentage of visible light reflected toward the exterior.

Solar Transmission – Percentage of normally incident visible light and solar energy passing directly through the glazing. The wave lengths measured for solar energy is 300 to 2500nm.

Solar Reflection – Percentage of normally incident visible light and solar energy reflected toward the exterior.

UV Transmission – The percentage of UV light transmitted measured in the light range of 300-380nm. The lower the number the better.

U Value – Measurement unit is watts per m2 per degree celcius ($W/m2^{o}C$) and is a measure of the rate of heat gain or loss through glazing due to environmental differences between outdoor and indoor air.

SHGC (Solar Heat Gain Coefficient) – The proportion of total solar radiation that is transferred through the glass at normal incidence, it comprises the direct solar transmission (5) and the part of the solar absorption dissipated inwards by radiation and convection. The lower the number the better the solar performance.

Viridian we ♥ glass