

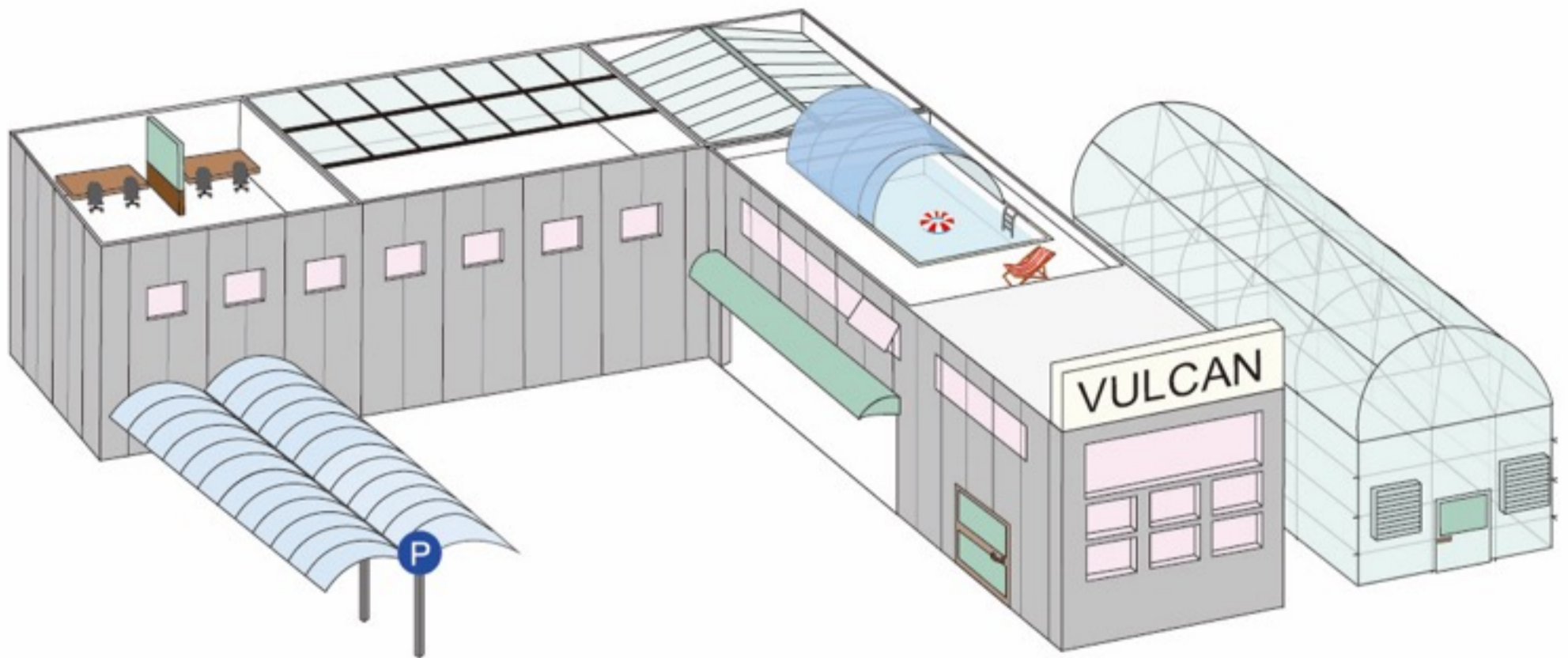


Vulcan Ti-Lite

— Polycarbonate Sheets —

BETTER LIVING THROUGH OPTIMUM GLAZING

CHOOSE BETWEEN CORRUGATED or FLAT or HOLLOW PROFILES



Comfort level under **VULCAN Ti-Lite**

Light level under **VULCAN Ti-Lite**



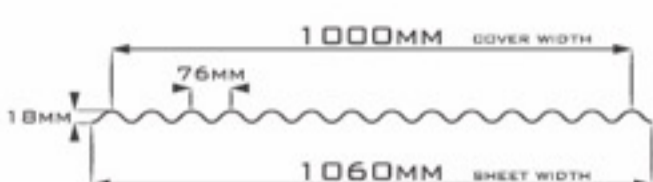

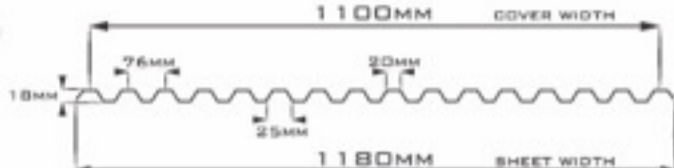
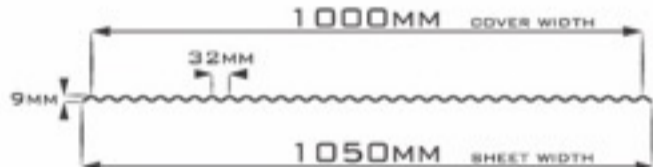
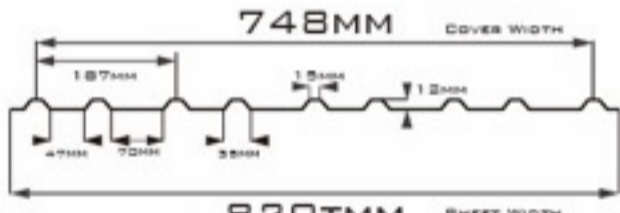
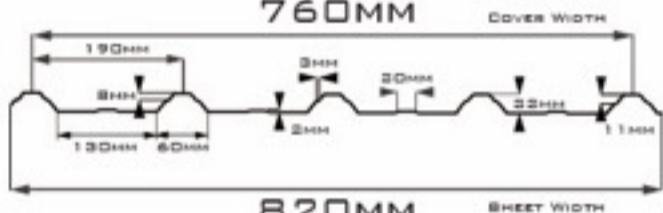
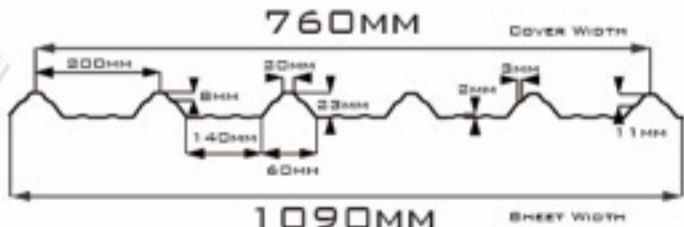
VULCAN Ti-Lite Color Choices

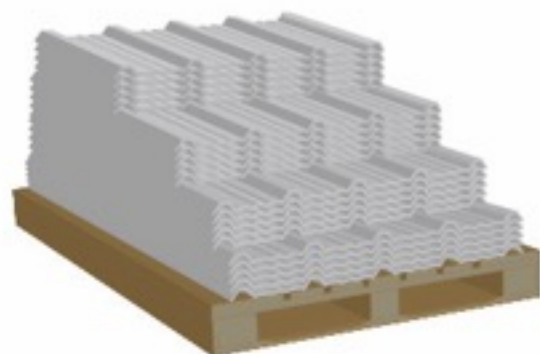
Opacity	Description	Colors
Translucent	Metallic Colors: Low Transparency, high haze colors - offering great shade and indirect light transmission.	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #cccccc; padding: 5px; text-align: center;">Metallic Silver</div> <div style="background-color: #336699; padding: 5px; text-align: center;">Metallic Blue</div> <div style="background-color: #339999; padding: 5px; text-align: center;">Metallic Green</div> <div style="background-color: #996666; padding: 5px; text-align: center;">Metallic Bronze</div> </div>

**Colors shown above are a reproduction of the actual color. Only actual sample chips can accurately represent the colors. Please contact us or your local distributor to receive color samples.*



Corrugated Profiles

Profile	Illustration	Cover width	Pitch	Depth	Thickness
Roma(76/18)		1000mm 915mm 836mm 760mm	76mm	18mm	Min:0.6mm Max:2.0mm
Trimdek(190/27)		760mm	190mm	27mm	Min:0.7mm Max:2.0mm
Greca(76/18)		1100mm 970mm 895mm 820mm 750mm	76mm	18mm	Min:0.6mm Max:2.0mm
Mini(32/9)		1000mm	32mm	9mm	Min:1.0mm Max:1.2mm
JEMPAL		748mm	187mm	12mm	Min:0.7mm Max:2.0mm
PUMA		760mm	190mm	22mm	Min:0.7mm Max:2.0mm
JAGUAR		760mm	200mm	23mm	Min:0.7mm Max:2.0mm







Packaging

Seaworthy wrapping at 10, 15, 20 or 30pcs per bag.


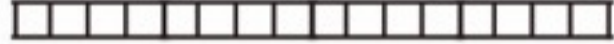

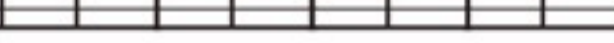




Shipping

LCL - Wrapped in thick kraft paper and palletted.
FCL - Seaworthy wrapping and laid flat in container.

Flat Profiles

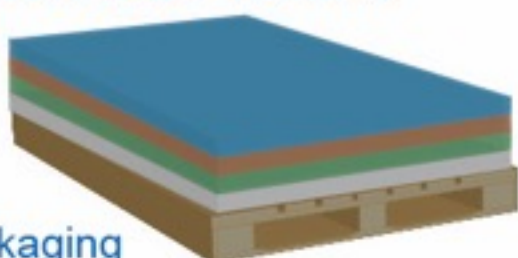
Profile	Illustration	Thickness (mm)	Standard widths (mm)	Lengths (mm)
 Embossed	 *1900mm available by request and subject to MOQ.	2	700 800 910	42420 (roll)
		3	1000 1100 1220	24240 (roll)
		4.5	1220	15150(roll)
		6	1220	2424 (sheet) 4848 (sheet)
 Flat	 *2100mm available by request and subject to MOQ.	2	1520 1830	30300 (roll)
		3		18180 (roll)
		4.5		15150 (roll)
		6		4848 (sheet)
		8	1220 1830	2424 (sheet) 3636 (sheet)
		10		2424 (sheet)

Multiwall Hollow Profiles

Profile	Illustration	Thickness (mm)	Standard widths (mm)	Lengths (mm)	
 Twin-Wall		4	1200 1220 1810 1830 2100 ⁽¹⁾	1220	
		6		2440	
		8		3050	
		10		3660	
 Triple-Wall		10	1210	4270	
		16		4880	
 Four-Wall		20		1210	5487
		25			5795
 Honeycomb		8	1210		6100
		10			9000
		12		11800	

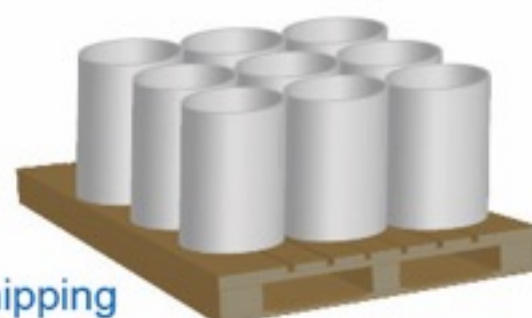
(1) 2100mm wide panels only available on select profile thicknesses.

Flat & Hollow Profiles



Packaging

Thick, Double Sided Laminated Film Protection. Sheets under 6mm thick can be packed in rolls. Customized film design and printing available. (Subject to MOQ)



Shipping

Thickness > 6mm:
Laid flat, wrapped in thick kraft paper and palletted.
Thickness < 6mm:
Rolled, wrapped in thick kraft paper and palletted.

VUCLAN Ti-Lite

- Exceptional Shade, low heat.



Ti-Lite Material

Designed to significantly reduce solar-transmitted energy even to a level of 10% from the solar level that originally hit the upper side of the sheet facing the sun.

Ti-Lite Technology

TiO₂ (Titanium Dioxide) along with other heat reducing material to cope with the blazing solar radiation while also providing excellent shading properties.

Light Transmission Rate

Controlled VIS (380~780nm)
Excellent shading Properties -
Less than 46% light transmission rate.

Heat Reflective Properties

Controlled NIR (780~2500nm)
Capable of reducing temperatures up to 15°C*

*Certain conditions may apply.

Base Material

VULCAN polycarbonate sheets use only 100% Virgin Covestro UV stabilizer included master-batch.

UV Resistant Coating

Co-extruded with the Base Material, the Clariant CESA Light UV and Light Stabilizers blocks harmful UV rays from 280~400nm.

With co-extruded UV protection, VULCAN Polycarbonate sheets last 10 years or more.

Clean Room Manufacturing

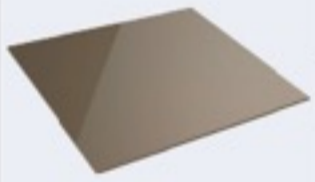
VULCAN Sheets are manufactured in Class 5000 clean rooms to ensure an impeccable quality.

Production Method

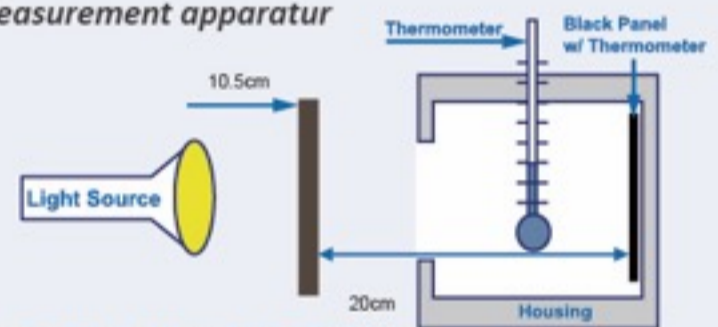
Co-Extrusion ensures evenly spread, evenly thick base material and UV coating.

Ti-Lite Material Properties

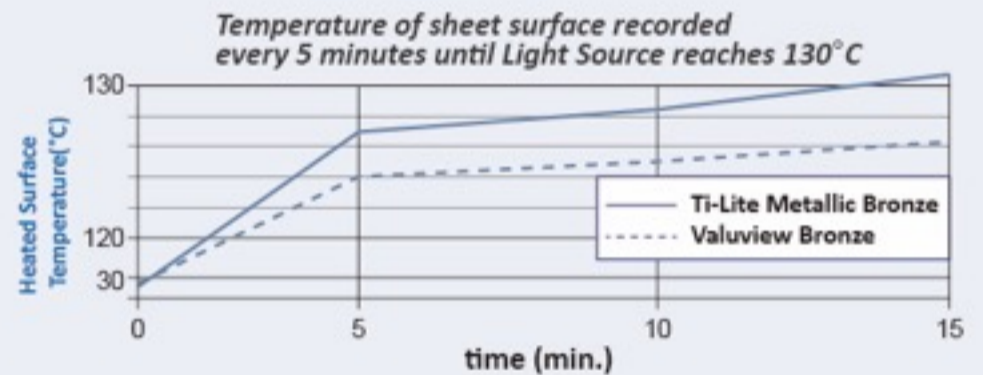
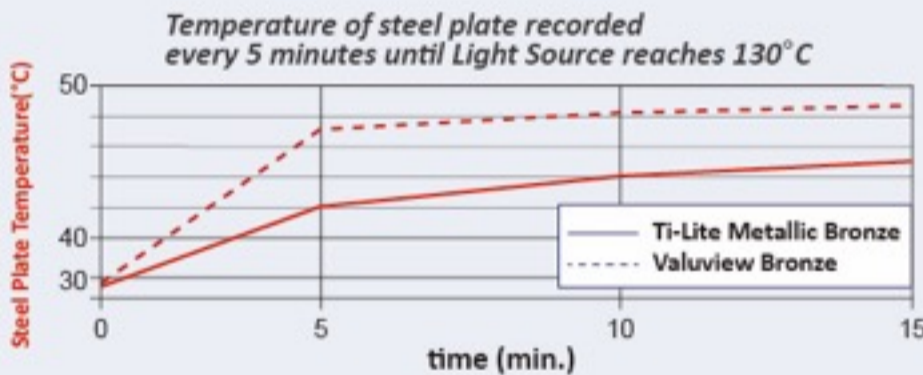
Material Typical Properties	Test Method	Results	Remark
Tested on 1mm Ti-Lite TRIMDEK Sheets			
Tensile Strength @yield (kgf/cm ²)	CNS 11335	693	Should exceed 551 (kgf/cm ²)
Tensile Elongation (%)	CNS 11335	17	Mean Value of 3 Specimen
Impact Strength	CNS 12093	No Rupture	Mean Value of 3 Specimen
Change Percent of Yellow Index after Weather Resistance Test (YID)(1200hrs)	ASTM G154 (for 1 cycle) UV-A (340nm): 60°C, 8hrs Condensation: 50°C, 4hrs	ΔYI -0.49	Measured Wavelength 400~700nm
Visible Light Transmittancy (%)	ASTM D1003	25	METALLIC SILVER METALLIC GREEN METALLIC BLUE METALLIC BRONZE
Ultraviolet Transmittancy (%)	ASTM D1003	0.2	
Density (ρ)	ASTM D792	1.20 g/cm ³	
Burn Characteristics	CNS 12093	Burnt portion self extinguishes after burner is removed.	
Heat Reflective Properties	JIS R3106 (1998)	Blocked NIR	Solar Heat Gain Coefficient
Properties	Ti-Lite provides exceptional shade and heat reduction properties. (Dissipates heat from the covered area) Designed to lower temperatures, provide great shade and cooling.		
Places to Use	Specially designed for hot areas requiring lots of shade, but still need well dispersed lighting. Recommended for warehouse, patios, rainsheds, canopies, carparks, and many more.		

Ti-Lite Metallic Bronze Solid Flat sheet		
	Shading Coefficient (SC)*	0.55
	Total Solar Transmission (%)	48.0
	Light Transmission (Ty)	38.0
*SC: g value Solarshield / g value 3mm glass		

Measurement apparatus



- Practically relevant set-up chosen
- No standardized (ISO) procedure available



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