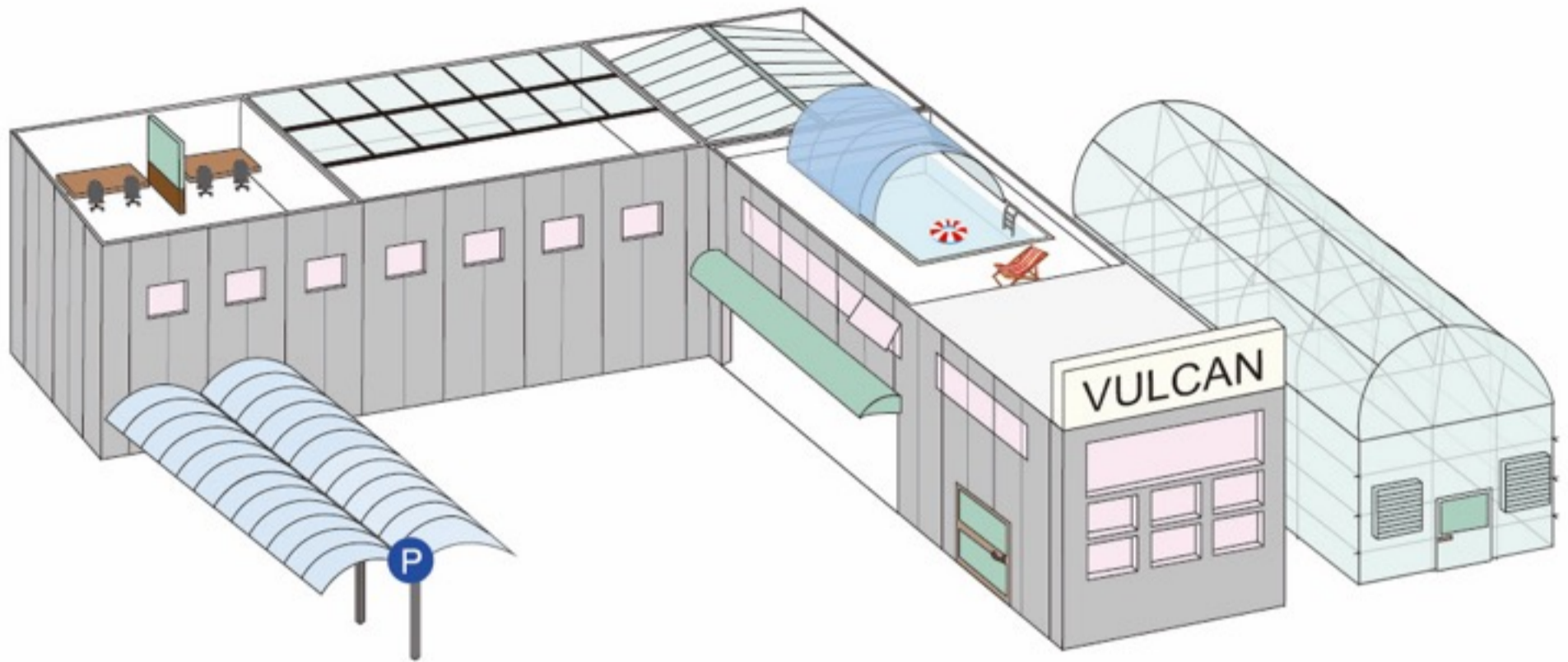


# Vulcan Valuvview

— Polycarbonate Sheets —

BETTER LIVING THROUGH OPTIMUM GLAZING

# Valuview Series Technical Data



## Comfort level under VULCAN Valuview



## Light level under VULCAN Valuview




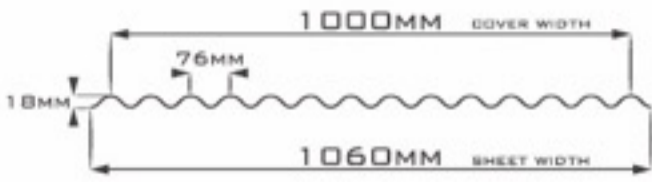



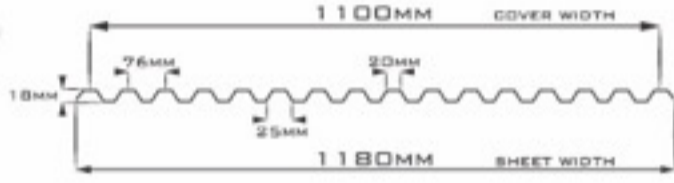

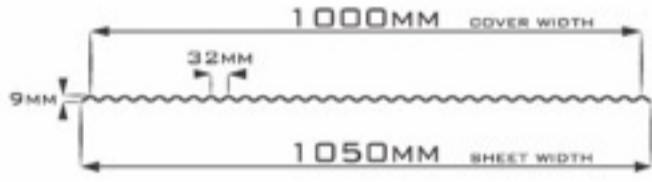

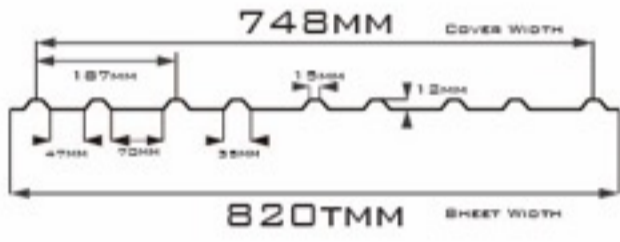

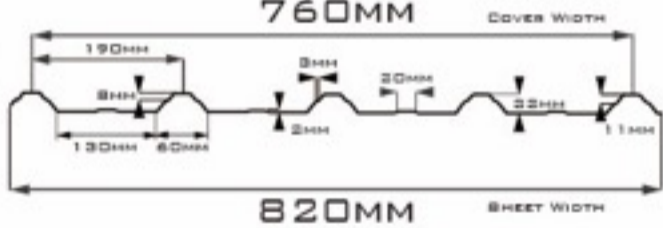

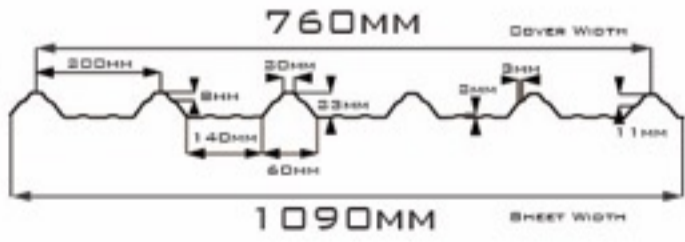
## VULCAN Product Colors

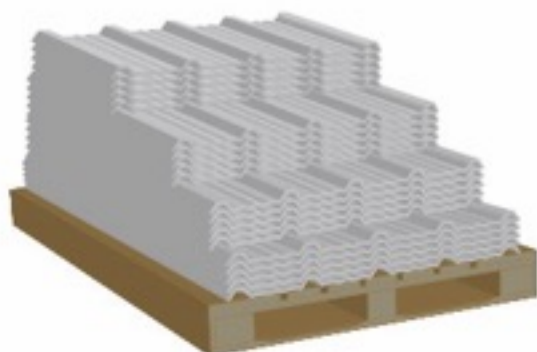
Opacity	Description	Colors
Clear	Transmits up to 90% natural daylight, resulting in high lighting within the structure.	Clear
Transparent	High Transparency, low haze colors offering high clarity. Solar colors offer advanced heat blocking capabilities that reduces heat buildup while allowing a clear view through the sheet.	Valuview Blue, Valuview Green, Valuview Bronze, Valuview Grey
Translucent	Light diffuser included. Transmits 20-50% visible light with exceptional light dispersion, which produces mild and even lighting within the structure, and enhanced privacy.	White Opal

\*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
 <p>Roma (76/18)</p>		1000mm 915mm 836mm 760mm	76mm	18mm	Min:0.6mm Max:2.0mm
 <p>Trimdek (190/27)</p>		760mm	190mm	27mm	Min:0.7mm Max:2.0mm
 <p>Greca (76/18)</p>		1100mm 970mm 895mm 820mm 750mm	76mm	18mm	Min:0.6mm Max:2.0mm
 <p>Mini (32/9)</p>		1000mm	32mm	9mm	Min:1.0mm Max:1.2mm
 <p>JEMPAL (187/12)</p>		748mm	187mm	12mm	Min:0.7mm Max:2.0mm
 <p>PUMA (190/22)</p>		760mm	190mm	22mm	Min:0.7mm Max:2.0mm
 <p>JAGUAR (200/23)</p>		760mm	200mm	23mm	Min:0.7mm Max:2.0mm







## Packaging

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


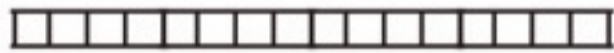

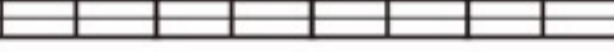


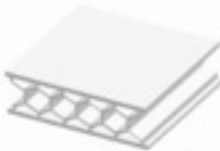

## Shipping

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

## Flat Profiles

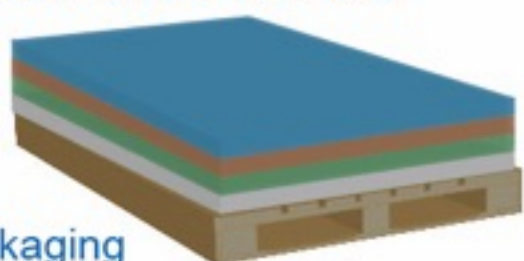
Profile	Illustration	Thickness (mm)	Standard widths (mm)	Lengths (mm)
 Embossed	 *1900mm available by request and subject to MOQ.	2	700 800 910	42420 (roll)
		3	1000 1100 1220	24240 (roll)
		4.5	1220	15150(roll)
		6		2424 (sheet) 4848 (sheet)
 Flat	 *2100mm available by request and subject to MOQ.	2	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
		6	1220	
		8	1810	
		10	1830	
 Triple-Wall		10	1210	3660
		16		4270
 Four-Wall		20	1210	4880
		25		5487
 Honeycomb		8	1210	5795
		10		6100
		12		9000 11800

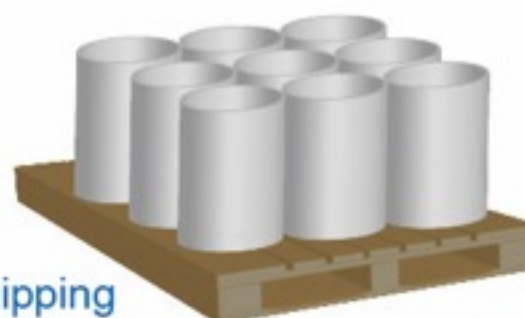
(1) 2100mm wide panels only available on select profile thicknesses.

## 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)

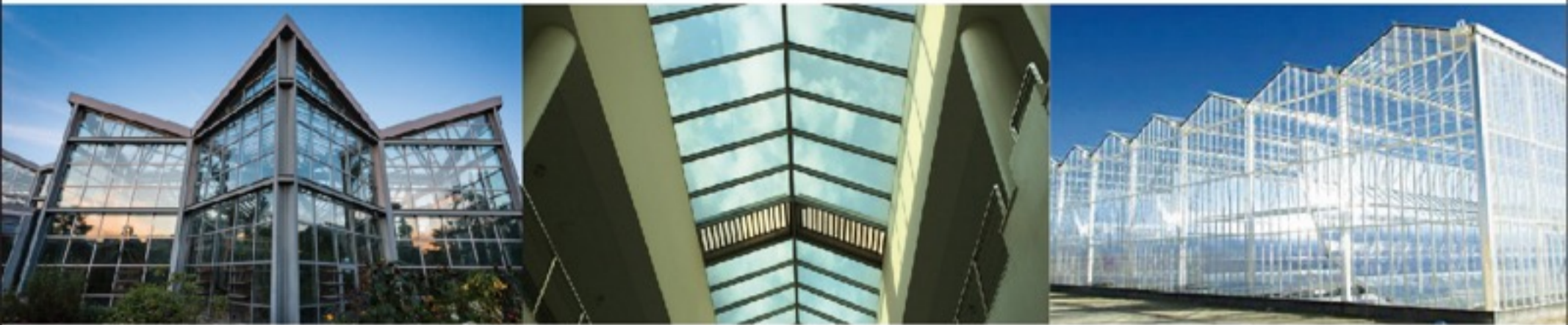


Shipping

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

# VUCLAN VALUVIEW

– Exceptional yet Affordable Glazing



## Base Material

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

## Production Method

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

## 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.

## Typical Characteristics of Polycarbonate (PC)

- Extremely High Impact Resistance.
- High Resistance to Climatic Change.
- Design Flexibility.
- Fire Retardent.
- Ease of handling and Installation
- Light weight (particularly in comparison with glass).
- Reasonably easy to cut.
- Fair chemical resistance.
- Can be dyed

## Light Transmission Rates

Projects requiring direct light projection.

- Valuview Clear: 88%

*Projects requiring reduced light projection.*

- Valuview Blue: 40%
- Valuview Green: 40%
- Valuview Bronze: 25%\*
- Valuview Opal: 20%\*

\*Custom light transmissions rates are available, and subject to minimum order quantity.

## Clean Room Manufacturing

VULCAN Clear Corrugated Roofing Sheet is produced in ISO Class 7 (FED STD 209E equivalent Class 10,000) clean room to ensure impeccable quality.

## Applicable Areas of Polycarbonate (PC) sheets

- Glazing for stadiums, conservatories.
- Agriculture or Aquaculture Greenhouses.
- Building Skylights.
- Rooflights of houses or warehouses.
- Protective glazing.
- Security glazing.
- Large area coverings of sport stadiums.
- Transportation shelters or walkways.
- Crash helmets, visors, protective goggles, riot shields.
- Housings for smartphones and laptops.

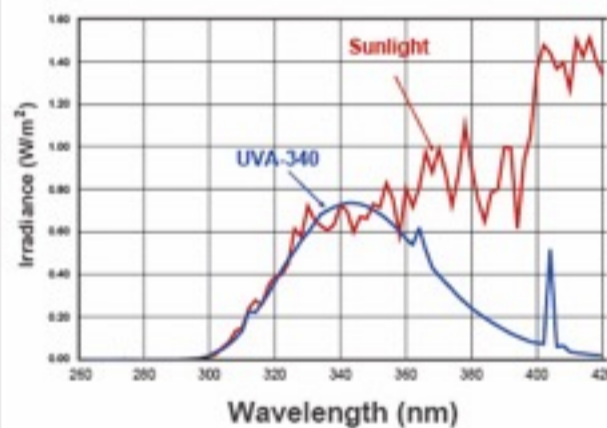
## VALUVIEW Material Properties

Material Typical Properties	Test Method	Results	Remark
Tested on 3mm Valuview Solid Flat Sheets			
Tensile Strength @yield (kgf/cm <sup>2</sup> )	ASTM D638-10	656	Should exceed 551 (kgf/cm <sup>2</sup> )
Tensile Elongation (%)	ASTM D638-10	89	Should exceed 50%
Flexural Strength (kgf/cm <sup>2</sup> )	ASTM D790-10	1103	Mean Value of 5 Specimen
Compression Yield Strength (kgf/cm <sup>2</sup> )	ASTM D695-10	756	Mean Value of 5 Specimen
Impact Resistance • Falling Dart [Mean Impact Resistance (J)]	ASTM D5628-96	>26.67	Specimen shouldn't fail when max. impact capacity 26.67J was reached.
Change Percent of Yellow Index after Weather Resistance (YID)(1200hrs)	ASTM G154 (for 1 cycle) UV-A (340nm): 60°C, 8hrs Condensation: 50°C, 4hrs	ΔYI -0.49	
Luminous Transmittance (%)	ASTM D1003-07	89	
Ultraviolet Transmittancy (%)	ASTM D1003	0.4	
Density (ρ)	ASTM D792-08	1.19 g/cm <sup>3</sup>	
Burn Characteristics	ASTM D635-10	Burnt portion self extinguishes after burner is removed.	10 Specimen Tested. Does Not Reach 25mm Reference Mark
Properties	Direct Light Transmission, with double sided Co-Extruded Clariant high concentration UV & Light Stabilizers to block harmful UV rays.		
Places to Use	For projects which requires direct light projection, seeking the highest standards and safeguard from the elements.		

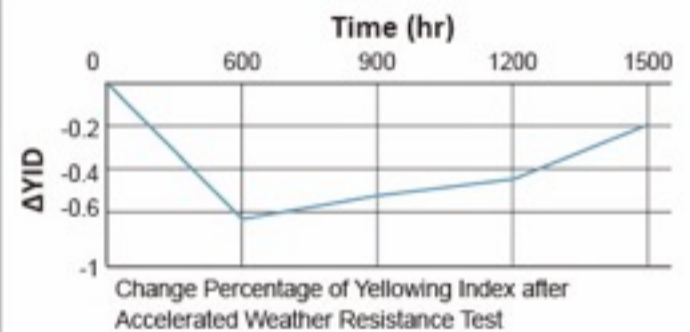
### Sunlight Simulation

The Accelerated Weathering Test reproduces the damaging effects of sunlight that can occur from 300 nm - 400 nm.

It is based on the concept that, for durable materials exposed outdoors, shortwave UV causes the most weathering damage.



UVA-340 lamps provide the best available simulation of sunlight in the critical short-wave UV region.



ΔYID	-0.61	-0.52	-0.49	-0.2
Time(hr)	600 (50 cycles)	900 (75 cycles)	1200 (100 cycles)	1500 (125 cycles)

\* ASTM G154 Accelerated Weathering Test (1 Cycle)  
UV Lamp: 8hrs, 60°C±3  
Condensation: 4hrs, 50°C±3

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