

### **TECHNICAL DATA**

# VITROFLEX MULTIWALL PC

The VITROFLEX MULTIWALL PC is a lightweight polycarbonate sheet with a hollow and grooved inner structure. It has a high resistance to impacts and a high transmission of light, together with better insulation depending on the product chosen.

The VITROFLEX MULTIWALL PC comes in different thicknesses, cell structures, variety of colors and can also be produced in different densities suitable for each project.

#### ADVANTAGES VITROFLEX MULTIWALL PC

- High light transmission.
- Possibility of installation with curvature.
- UV protection on one or two sides.
- Lightweight Handling and simple assembly.
- Good rigidity

#### TYPES AND FORMATS

The VITROFLEX MULTIWALL PC in all its range of structures and thicknesses can be produced in colors, being the standard products of stock the colorless and the opal in the majority of thicknesses and structures. For bronze and other colors consult. In addition to the smooth surface structure, it is possible to opt for a hammered light diffuser finish, upon request. It has a layer of protection against UV rays of high quality on one side as standard. Optionally you can ask for two faces. There is also the solar control option, which reduces the passage of heat and infrared radiation.

#### **APPLICATION**

- Roofs
- Greenhouses.
- Skylights.
- Garages.
- Stadiums and atriums.
- Swimming pools.
- Interior divisions.
- Protection panels.
- Furniture.
- Sings
- Stands.
- Ceilings.
- Subway stations.
- Elevator cabins.
- Advertising posters.



# STANDARD STRUCTURES VITROFLEX MULTIWALL PC

Product	Estructure	Widthmm	Length mm	Thickness mm	Step mm	(g/m²)
VITROFLEX MULTIWALL PC 2 WALLS		2100	3000 6000	4	6	800
		2100	3000 6000	6	Ü	1300
		2100	3000 6000	8	- 10 -	1500
		2100	3000 6000	10		1700
VITROFLEX MULTIWALL PC 6 WALLS X		2100	3000 6000	16	10	2500

On request special weights can be manufactured.

Additionally under minimum order.



## OTHER STRUCTURES VITROFLEX MULTIWALL PC

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Product	Structure	Width mm	Length mm	standard mm	Step mm	(g/m²)
VITROFLEX MULTIWALL PC 2 WALLS		1250 2100	6000 7000	6	10	1200 1300
				8		1500
				10		1500 1700
VITROFLEX MULTIWALLPC 3 WALLS		1250 2100	6000 7000	16	20	2500 2700
VITROFLEX MULTIWALL PC 7 WALLS		1250 2100	6000 7000	16	- 16	2500 2600 2700
				20		2800 3000
VITROFLEX MULTIWALLPC 5 WALLS X		1250 2100	6000 7000	10	10	1500 1600 1700
				16		2500 2700
				20		2800 3000
				25		3400
VITROFLEX MULTIWALL PC 6 WALLS X		1250 2100	6000 7000	8	10	1400 1500
				10		1500 1700
				16		2500 2600 2700
VITROFLEX MULTIWALL PC LIGHT		1250 2100	6000 7000	25	- 20	3200 3400
				32		3600 3700

FT VITROFLEX PC CEL EN 190404





# TECHNICAL SPECIFICATIONS - VITROFLEX MULTIWALL PC

Properties	Value	Units	Standard
Physical properties			
Density Water absorption 24h 23°C, 50% RH Refraction index (20°C)	1,20 0,15 1.586	g/cm³ % %	ISO 1183 ISO 62 ISO 489
Mechanical properties			
Tensile strength Traction elasticity module Elongation at break Impact strength. Charpy method Rockwell hardness Flexural strength	63(70) 2300 6 (110) NB M70 2300	N/mm² N/mm² % kJ/m² R-scale MPa	ISO 527 ISO 527 ISO 527 ISO 179/2D ISO 2039-2 ISO 178
Thermal properties			
Linear thermal expansion coefficient (23-80°C) VICAT softening temperature Bending temperature under load (Method A, 1.8MPa) Specific heat capacity, Cp Thermal conductivity	0.70 149 132 1,17 0,21	10⁴ x K⁻¹ ℃ ℃ kJ / kg.K W / m.K	ISO 306 ISO 75 DIN 52612
Fire properties			
Construction (EU)	Bs2d0		ISO13501-1

The properties described here are typical values of the material. Polimer Tecnic is not responsible for the materials of a specific consignment to exactly match the given values, being able to carry out tests of that heading. The above information is based on our experience and is given in good faith. Due to some installation and processing factors that are beyond our knowledge and control, no guarantee is given regarding such information.

