

TECHNICAL DATA

Pultrux

Light structure profile

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Product description

Pultrux[®] can replace steel in secondary construction structures. It consists of a reinforcement of continuous threads, layers and veils of fiberglass, impregnated by a polyester resin with excellent dielectric properties and low moisture absorption, obtaining a profile of high resistance to current flow and excellent mechanical properties dry and as wet even after being exposed to the elements.

Pultrux[®] can be applied outdoors, in humid environments or acid environments emitted by industrial processes. It can be drilled or punched to be assembled by mechanical means or high strength adhesives to achieve its fixation.

Sector

Industrial / Agricultural /Residential

Application

Light Structure Secondary support usually carried out with classic carpentry (platforms, walkways, landings, chemical equipment supports, screens, insulatings) in:

- Chemical facilities, Water treatment, Tanneries, Naval, Waste treatment..
- Electric stations, Electric cabinets, Telecommunications, Railway



Profile



Advantage

Resistance to Corrosion and Chemical products. Resistant to corrosive environments, acids, saline, alkaline and electromagnetic corrosion

Under weight. Corresponds to 25% of Steel and 70% of Aluminium (1) Comparative with respect to profiles of equal dimension

- (2) Comparative tension resistance in the direction of the fiberglass
- Mechanical strength. 70% of the standard commercial Steel

Electrical and Thermal Insulation.

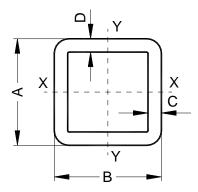
Dimensional consistency

Easy Mechanical Assembly. Does not require special or heavy equipment for assembly

Zero maintenance. The color is an integral part of the material so it does not require painting or subsequent maintenance

Low Integral cost. Competitive cost compared to painted steel, low installation cost, long service life and zero maintenance costs

PRT - 50.8 x 50.8 x 6,35 x 6,35



A = 50.8 mm B = 50.8 mm C = 6,35 mm D = 6,35 mm

Weigth	Surface	Moment of Inertia		Resistance moment		Turning radius		Length	Colour
Kg/m linear	cm²	lx	ly	Wx	Wy	ix	iy		Green, Yellow, Orange, Gray
		cm⁴	cm4	cm ³	cm ³	cm	cm	30 cm - 6 m	
1,96	10,873	37,9	37,9	14,9	14,9	1,87	1,87	<u>jo c</u> o m	



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Physical characteristics

Physical properties	Rule	Value		
Density	ASTM D792 (Método A)	1,63–1,96 g/cm³		
Barcol hardness	ASTM D ₂₅ 8 ₃	≥ 50		
Water absorption	ASTM D570	≤ 0,75 %		
AC Dielectric resistance	ASTM D149 (longitud 2,54 cm)	≥ 25 kV		
DC current leak	ANSI A14.5	≤ 90 microA		

Mechanical characteristics

Туре	Tensi ASTM D63		Flexural ASTM D790(MPa)			
	Resistance	Modulus	Resistance	Modulus		
PRT (50,8-3,17)	385	31.493	378	17.093		

Tests carried out in Alma (web) in the direction of pultrusion

Admissible Load

Camber L/200	Distance L (cm)										
Admissible load (Kg)	80	100	120	140	160	180	200	220	240	260	280
Uniformly Distributed Admissible Load X-X / Y-Y	767	391	225	141	93	64	45	33	24	17	12
Admissible load in center X-X / Y-Y	479	245	141	88	58	40	29	21	15	11	8

Recommended installation

For its installation, mechanical screw-washer-washer-screw-nut unions and epoxy, urethane or methacrylate based structural adhesives are recommended. Do not use self-tapping elements.

The information referred to in this Technical Data Sheet is based on the experience and the tests carried out by the company, without this implying any kind of responsibility for its different applications, given that Stabilit Europa does not have any kind of control over its final use