PRODUCT SHEET

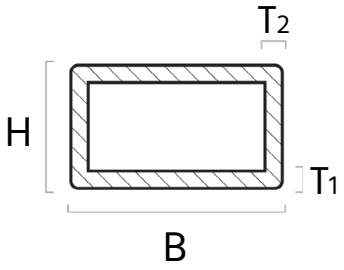
SQUARE TUBE TRIGLASS®

All dimensions are realizable upon order, with ample customization possibilities regarding reinforcements, resins, colors and finishes, based on minimum lots varying according to the required profile.

(S) Dimensions currently available in stock are indicated in red, subject to prior sale.

Nominal dimensions: mm

BASE	HEIGHT	THICKNESS 1	THICKNESS 2	
28,1	16,1	2	2	
28,5	18,7	2	2,5	
29,6	20,2	2	2	
30	12	2	2,5	
30	15	2	2,5	
30	30	2,5	2,5	
32	22	3	3	
34,1	19,1	2	2	
40	20	2	2,5	
40,1	40,1	2	2	
50	20	2,5	3	
50	50	4	4	
50	50	5	5	S
58	25	3	3	
58	25	5	5	
60	20	2,5	3	
60	30	2,5	3	
64,2	27,2	3,1	3,1	
70	12	2,6	3	
70	70	4	4	
70	70	5	5	S
73	25	3	3,5	
73	25	3	6,6	
80	47	3	3	
82	32	2,8	4	
85	25	3	4	
86	32	2,8	4	
90	25	3	5	
90	90	8	8	S
95	26	3	5	
100	30	3	3	
100	100	7	7	
100	100	10	10	
100	100	13	13	
120	120	6	6	
150	100	3	3	
150	100	5	6	
200	150	3	3	
400	30	3	3	
1000	40	4	3,7	



RAW MATERIALS

Fiberglass

Thermosetting resin

APPLICATIONS

Water treatment

Aerial platforms

Metropolitan tunnels

IN-STOCK PROFILES

LENGTH:

Length: 6000 mm

COLOR:

Grey

MATRIX:

Standard Polyester

PRODUCTS

100% Made In Italy

PRODUCT SHEET

SQUARE TUBE TRIGLASS®

VALUES REFER TO REINFORCED PROFILES WITH FIBREGLASS IN A POLYESTER MATRIX. Mechanical resistance values are to be considered at breaking. Typical tolerance for mechanical properties referred to the longitudinal direction: ±10%. The provided data is accurate. However, Top Glass does not assume any liability as to its use.

ADVANTAGES

Resistance to atmospheric agents
Dimensional stability
Lightweight
Easy to assemble

NOTES

The highest mechanical values refer to profiles with a thickness over 4 mm

It is possible to achieve UL94 V-0 fire resistance, with or without halogenated formulations

Antistatic formulations can be manufactured upon request

Special formulations can be used for thicknesses above 2.5 mm to ensure high fire resistance and low toxic fume emission

Vinylester resin formulation is available for applications requiring enhanced chemical resistance

CERTIFICATIONS

Products can be manufactured in compliance with the European standard EN 13706-E23.

Recyclability certificate FRP200004

MAIN PHYSICAL - MECHANICAL PROPERTIES

PROPERTY	STANDARD	UNIT OF MEASURE	STANDARD PROFILES Average Values
Specific weight	ASTM D792	g/cm³	1,75 ÷ 1,9
Dielectric strength	ASTM D149	kV/mm	3 ÷ 7
Water absorption	ISO 62	%	0,4
Surface electrical resistivity	EN 61340	Ω	10^{12}
Dissipation Factor 50 Hz (tan δ)	ASTM D150	-	0,05
Thermal class	——	CLASS	F
Coefficient of linear thermal expansion	ISO 11359-2	K^{-1}	$8 \div 11 \times 10^{-6}$
Thermal conductivity	EN 12667 / EN 12664	W/mK	0,3
Longitudinal flexural strength	ASTM D790	MPa	300 ÷ 500
Longitudinal flexural modulus	EN 13706	GPa	22 ÷ 28
Longitudinal tensile strength	ASTM D638	MPa	300 ÷ 500
Longitudinal tensile modulus	ASTM D638	GPa	22 ÷ 28
Longitudinal compression strength	ASTM D695	MPa	180 ÷ 300
Longitudinal compression modulus	ASTM D695	GPa	16 ÷ 20
Fire reaction	UL 94	CLASS	HB
Shear strength	ASTM D2344	MPa	30