



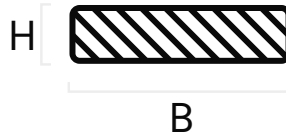
# FLATS AND RODS TRIGLASS®

**ROD and FLAT TRIGLASS®** composite profiles, reinforced with fibreglass and/or carbon, represent one of the pultruded profiles made by Top Glass. Partially available from stock, our pultruded profiles are targeted at sectors such as **internal décor** and are especially suitable for **reinforcing marble surfaces**. They can be used in **construction as fastening and connecting plates**, in industry as **components for machinery**, in the **marine setting as sail battens**, and in the **electrical technical field as spacers**. The specific composition developed by Top Glass for these profiles has made them particularly appreciated in the **glass industry**.



## RODS

Made with **only longitudinal fibres** giving them longitudinal resistance to bending and compression.



BASE	HEIGHT
5	3
6	5
7	3
8	3
<b>9</b>	<b>2,5</b>
10	5
13	8
15	1,25
15	1,5
15	3
15	4,5
15	5
16	5

BASE	HEIGHT
17	12
<b>18</b>	<b>2</b>
20	15
20	5
20	6
20	10
<b>24</b>	<b>2,5</b>
26	26
30	20
30	10
<b>30</b>	<b>4,5</b>
31	6
40	40

Nominal dimension: mm

**IN RED** colour: dimensions available **in stock** (subject to prior sale)

**INGREY** colour: dimensions available **upon request** and produced with a variety of reinforcements, resins and colours and based on **minimum production quantities** that can differ depending on the profile

## FLATS

Produced with **continuous filament material** to obtain mechanical features that are higher performing in a transverse direction.

BASE	HEIGHT
25	3
28	4
40	8
40	9
40	10
41	7
50	6
<b>50</b>	<b>4</b>
60	3,4
70	3
87	3
100	1,2
100	1,4
100	2,5
150	10
295	2
310	2,5

BASE	HEIGHT
310	3
310	3,5
310	4
310	5,5
310	7
1250	3
1250	5
1250	6
1250	7
1250	8
1250	9
1250	10
1250	12
1250	13
1250	16
1250	17
1250	20

### SPECIFICATIONS OF IN-STOCK PROFILES

LENGTH IN STOCK: 4.000 mm

COLOUR IN STOCK: WHITE

MATRIX IN STOCK: STANDARD POLYESTER

## MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT OF MEASUREMENT	ROD PROFILES MEAN VALUE	FLAT PROFILES MEAN VALUE
Specific weight	ASTM D792	g/cm <sup>3</sup>	1.9	1,75 ÷ 1,9
Dielectric strength	ASTM D149	kV/mm	3	5 ÷ 10
Water absorption	ISO 62	%	0,2	0,4
Surface electrical resistivity	EN 61340	Ω	10 <sup>12</sup>	10 <sup>12</sup>
Fattore di perdita 50 HZ (tg δ)	ASTM D150	-----	0,05	0,05
Thermal class	-----	CLASS	F	F
Longitudinal thermal expansion coefficient	ISO 11359 - 2	K <sup>-1</sup>	7.5x10 <sup>-6</sup>	9 ÷ 11x10 <sup>-6</sup>
Thermal conductivity	EN 12667 EN 12664	W/mK	0,3	0,3
Longitudinal flexural strength	ASTM D790	MPa	700	200 ÷ 450
Longitudinal flexural modulus	ASTM D790	GPa	33	10 ÷ 18
Longitudinal compression strength	ASTM D695	MPa	300	120 ÷ 250
Modulo elastico a compressione	ASTM D695	GPa	23	12 ÷ 18
Fire reaction	UL 94	CLASS	HB	HB
Shear strength	ASTM D4475	MPa	30	30

VALUES REFER TO REINFORCED PROFILES WITH FIBREGLASS IN A **POLYESTER MATRIX**

Tolerance for mechanical properties refers to longitudinal direction: ± 10%

The data provided is accurate. However, Top Glass does not assume any liability as to its use.

### NOTES:

- MECHANICAL RANGE IN FUNCTION OF REINFORCEMENT LAYOUT
- FLAT OVER 6 mm THICKNESS POSSIBLE WITH GPO3 FORMULATION
- 1250 mm FLAT PROFILES SUITABLE OF BEING FORMULATED IN VINYLESTER, EPOXY, CLASS H OR UL 94 V0 FIRE REACTION ONLY AFTER SPECIFIC TECHNICAL EVALUATION

