

**CABLE TRAYS and LADDERS TRIGLASS®** composite profiles, reinforced with fibreglass and/or carbon, represent one of the pultruded profiles made by Top Glass.

These products are designed and manufactured to meet stringent technical requirements with regard to **mechanical properties and fire resistance**.

The main advantage of these types of cable trays and ladders are their **excellent electrical insulation** and their **fire behaviour**. They are extensively used for the installation and protection of cables inside tunnels and wherever higher safety standards are required.



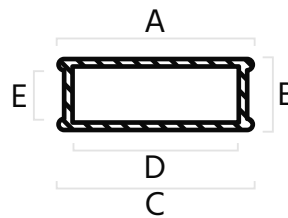
**STANDARD CABLE TRY TYPE "A"**

TYPE	A	B	C	D	E
50 X 50	64,5	55	59	50	50
80 X 80	95,4	85	90	80	80
100 X 50	115,4	55	110	100	50
120 X 120	136,4	125	131	120	120
140 X 70	156,4	75	151	140	70
140 X 100	156,4	105	151	140	100
140 X 140	156,4	145	151	140	140
175 X 70	191,4	75	186	175	70
175 X 120	191,4	125	186	175	120
175 X 175	191,4	180	186	175	175
200 X 80	216,5	85	211	200	80
300 X 80	316,4	82	311	300	76

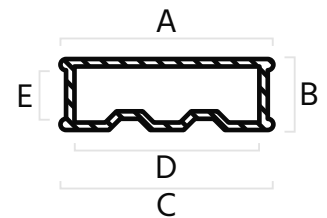
**STANDARD CABLE TRY TYPE "B"**

TYPE	A	B	C	D	E
400 X 80	417,4	86	411	400	80
500 X 80	517,4	86	511	500	80
600 X 80	617,4	86	611	600	80

**TYPE "A"**



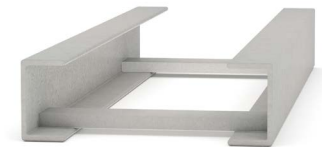
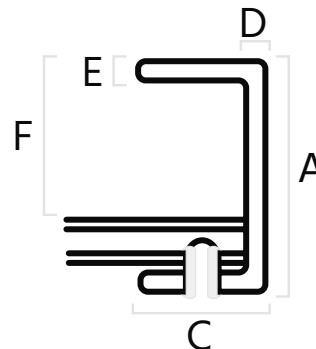
**TYPE "B"**



Nominal dimension: mm

**CABLE LADDERS**

TYPE	P-50 (mm)	P-83 (mm)	P-120 (mm)
A	50	83	120
B	200 - 300 - 400 - 500 - 600		
C	30	30	50
D	3	3	3
E	4	5	3
F	31	63	102
L	6000	6000	6000





## MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT OF MEASUREMENT	POLYESTER RESIN MEAN VALUE	ACRYLIC RESIN MEAN VALUE
Specific weight	ASTM D792	g/cm <sup>3</sup>	1,8	2
Dielectric strength	ASTM D149	kV/mm	5	10
Water absorption	ISO 62	%	0,4	0,5
Longitudinal thermal expansion coefficient	ISO 11359-2	K <sup>-1</sup>	11 x 10 <sup>-6</sup>	9 x 10 <sup>-6</sup>
Thermal conductivity	EN 12667 EN 12664	W/mK	0,3	0,35
Longitudinal flexural strength	ASTM D790	MPa	400	300
Longitudinal flexural modulus	EN 13706	GPa	25	21
Fire "F" classification	NF F 16-101	CLASS	F2	F0
Fire "M" classification	NF P 92-501	CLASS	M2/M3	M1
Fire "I" classification	NF F 16-101	CLASS	I4	I0
Surface flame spread	BS 476 Parte 7	CLASS	3	1
Flame spread smoke developed	ASTM E 84	CLASS	-----	1
Inflammation point (incandescent wire test)	IEC 695-2-1	°C	-----	960 without drops
Halogens free			YES	NO

VALUES REFER TO REINFORCED PROFILES WITH FIBREGLASS IN A **POLYESTER - ACRYLIC 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:

- POLYESTER POSSIBLE ALSO IN ANTISTATIC FORMULATION

