

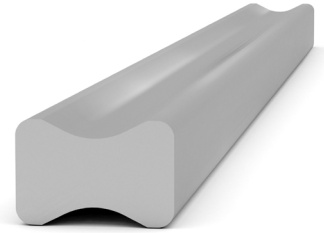
DOG BONE TRIGLASS® composite profiles, reinforced with fibreglass, represent one of the pultruded profiles made by Top Glass.

Partially available **from stock**, our pultruded profiles are indispensable in the production of **electrical devices** such as dry-type transformers, electric motors and coils.

Their main strength is their **optimal electrical insulation ability**.

This makes them ideal for use in the aforementioned systems involving strong electrical current.

It is also possible to produce, upon request, a halogen-free, self-extinguishing UL 94V0 version. All products **meet the European Directive 2011/95/EC** restricting the use of hazardous substances in electrical and electronic equipment.



Nominal dimension: mm

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

IN GREY 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

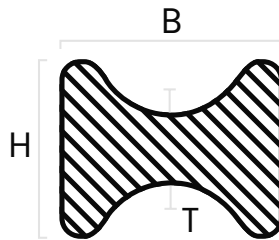
SPECIFICATIONS OF IN-STOCK PROFILES:

LENGTH IN STOCK: 2.000/2.500/3.000 mm

COLOUR IN STOCK: NATURAL

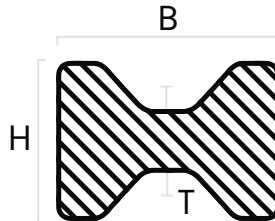
MATRIX IN STOCK: STANDARD POLYESTER

Standard Dog Bone



BASE	HEIGHT	THICKNESS
8	6	3
10	8	4
12	10	5
13	10	5
14	10	5
16	12	6
16	13	6,5
18	14	7
20	16	8
24	16	8

Reinforced Dog Bone



BASE	HEIGHT	THICKNESS
8	6	2
10	8	2
12	10	2,5
14	12	2,5
16	14	3
18	16	3
20	18	4
22	20	4

MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT OF MEASUREMENT	STANDARD PROFILES MEAN VALUE
Specific weight	ASTM D792	g/cm ³	1,9
Dielectric strength	ASTM D149	kV/mm	5
Water absorption	ISO 62	%	0,2
Surface electrical resistivity	EN 61340	Ω	10 ¹²
Dielectric constant at 50 HZ	ASTM D150	-----	5
Loss factor at 50 HZ (tg δ)	ASTM D150	-----	0,05
Thermal class	-----	CLASS	H
Longitudinal thermal expansion coefficient	ISO 11359 - 2	K ⁻¹	7.5x10 ⁻⁶
Thermal conductivity	EN 12667 EN 12664	W/mK	0,3
Longitudinal flexural strength	ASTM D790	MPa	600
Longitudinal flexural modulus	EN 13706	GPa	30
Longitudinal compression strength	ASTM D695	MPa	280
Longitudinal compression modulus	ASTM D695	GPa	23
Fire reaction	UL 94	CLASS	HB

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:

- POSSIBLE TO PRODUCE:
PROFILES **IN H / UL 94 V0 CLASS** WITH HALOGENS OR
PROFILES **IN F CLASS / UL 94 V0** WITHOUT HALOGENS

