



Castioni GRP cable ducts made of glass fibre reinforced polymer are manufactured using the pultrusion process. Some pultruded GRP cable ducts are available from stock and are used in a wide variety of cable management applications. GRP cable ducts are used in highly corrosive environments such as in road tunnels or in subway shafts, train tunnels, offshore installations, alongside railway tracks, in industrial sectors and much more.

Pultruded GRP cable ducts are resistant to wide temperature variations, UV radiation and many aggressive chemicals.

They can be produced with different levels of fire performance. Optimum fire performance is achieved with halogen free, non-toxic, smoke free, self-extinguishing systems that offer the highest levels of fire retardancy. Additionally, Castioni cable ducts are electrically insulating, have excellent cable protection and high dielectric strength. As a result, grounding is not necessary.

Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
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

Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
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

* only available in polyester resin



Property	Test Method	Unit of Measurement	Polyester Resin Mean Value	Acrylic Resin Mean Value
Specific weight	ASTM D792	g/cm ³	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 ⁻¹	11 x 10 ⁻⁶	9 x 10 ⁻⁶
Longitudinal flexural strength	ASTM D790	MPa	400	300
Longitudinal flexural modulus	EN 13706	GPa	25	21
Thermal conductivity	EN 12667 EN 12664	W/mK	0,3	0,35

Fire Reaction Properties – Mean Value				
“F” Classification (smoke)	NF F 16-101	Class	F2	F0
“M” Classification (fire)	NF P 92-501	Class	M3/M2	M1
“I” Classification (oxygen)	NF F 16-101	Class	I3	I0
Smoke density	BS 6583	Index	—	A0 (On) = 9 A0 (Off) = 10
Surface flame propagation	BS 476 part 7	Class	3	1
Flame propagation, Smoke emission	ASTM E84	Class	—	1
Flammability Index (Glow wire)	IEC 695-2-1	°C	—	960 without drop
Halogen content	—	—	yes	no
Flammability test (Horizontal sample)	UL94	Grade	—	V0
Toxicity Index	CEI 2037 part 2	—	<2	<1
Flammability test (Vertical sample)	UL94	Grade	V1/V0	V0
Fire reaction test	EN 45545-2, „R1“	Class	—	HL3
Fire reaction test	EN 13501	Class	—	B-s2-d0

- 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 we are not responsible for their use.
- Delivery from German warehouse

