




GRP Ladder and Tray Support Systems Product Data Sheet

Product Range	GRP Support Systems	<p>Image for reference only</p> 
Description	Ladder and Tray Support Systems	
Key Features	<p>For wall mounting and ceiling mounting applications. Brackets for Pultruded Ladder and Pressed Tray Optional Fixing rail for Pultruded Ladder Optional M10 x 30mm Clamp bolts for use with Fixing Rail</p> <p>Load at mid-point of brackets (L/2) 1.25KN (only valid if the main supporting part is sufficiently and correctly fixed). Impact (Fittings) – IK10 (20 Joules)</p>	
Dimensions	<p>L (Protruded) = width of Ladder plus 10mm L (Pressed) = Width of Cable Tray plus 20mm</p>	
Material(s)	<p>GRP - Glass-Fibre Reinforced Polyester (Halogen free). Clamp bolts – Stainless Steel</p>	
Compliance / Standards(s)	<p>CE & UKCA Marked Low Voltage Directive 2014/35/EU The Electrical Equipment (Safety) Regulations 2016 BS 7671:2018 Refer to sheet 2 for complete list</p>	
Packaging	Recyclable	

Properties	Standards references & Standards Designations	PRESS type resin R96	PULTRUSION type resin R6204	Units
Fire Behaviour				
Inflammability	IEC 695-2-1 Glow Wire test	960	960	°C
Inflammability	UL 94 Test for flammability of plastic materials	V0	V0	-
Flammability	NF P 92-507 Fire Behaviour of Building Materials	M3	M2	-
Spread of Flame	ASTM E84 Surface burning characteristics of building materials	35	35	Index FSI
Spread of Flame	BS 476 Part 7 Surface spread of flame test for materials	Class 2	Class 2	-
Fire Propagation	BS 476 Part 6 Fire Propagation test for materials	18,3	14,1	Index
Oxygen & Smoke Index	NF F 16-101 Fire Behaviour of materials for rolling stock	I2 (>32) F0 (<5;	I2 (>32) F0 (<20;	-
Smoke	BS 6853 App 52 Fire Precautions in the design and construction of rolling stock	10,47 / 11,23	17,34 / 18,74	Index
Oxygen Index	ASTM D 2863	> 35	-	%
Fire Protection Index	EMPA	5.3	5.3	Index
Fire Standard	DIN 4102	B2	B2	-
Fire Standard	IEC 332-3 Fire Resistance of Cable	Passed		
Mechanical Behaviour				
Breaking Point	NEMA FG1 Fibre glass cable ladder systems	N/A	A to C Class	-
Tensile Strength at Break Point	DIN 53455 / ISO 527	37	155	MPa
Modulus of Elasticity	DIN 53457 / ISO 527-4	5000< <7000	10000< <15000	MPa
Choc Resistance	DIN 53453	27 / IPxx7	80 / 25	kJ/m m ²
Heat Resistance	VSM 77116 Martens Point	-90	-200 / 80	°C
Accelerated Aging	ISO 4892-2 Mechanical UV Resistance	Excellent	Excellent	-
Degrees of Protection	NF EN 50102 Degrees of Protection against mechanical impact	IK10	IK09 – IK10	-
Electrical Behaviour				
Surface Resistivity	DIN 53482 / EN 50014	~10 ¹²	~10 ¹¹	Ω
Volume Resistivity	DIN 53482	~10 ¹³	~10 ¹²	Ωm
Breakage Voltage	IEC 243-1	> 15	> 15	kV/m m