

GRP Pultruded Ladder Systems Product Data Sheet

Product Range	GRP Pultruded Ladder Systems	<p>Image for reference only</p> 
Description	GRP Ladder System	
Key Features	<ul style="list-style-type: none"> No corrosion Insulating Easy installation Self-extinguishing with zero Halogen Light and Robust 	
Dimensions	150x100mm to 900x150mm in 3m lengths	
Material(s)	<ul style="list-style-type: none"> Glass Reinforced Polyester (GRP) Standard colour RAL7032 	
Compliance / Standards(s)	<ul style="list-style-type: none"> 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 	
Packaging	Recyclable	

Sustainability

We work hard to ensure our products meet the highest standards and are totally committed to the environment and maximising our usage of recycled material within our manufacturing process.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material.



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