

Pemsaband Vulcan Medium Duty



Description

Advantages

Applications

Solutions



Main technical characteristics					
 25	 50, 75, 100, 150, 225, 300, 450, 600, 750, 900	 Steel with surface coating	 20 J	 IP23	 -50 / 150 °C
 A1 No combustible		ETIM 10			

Product data					
				Ref	mm²
PG	Class 3	50	3	82004627	1171
PG	Class 3	75	3	82004628	1776
PG	Class 3	100	3	82004629	2381
PG	Class 3	150	3	82004630	3591
PG	Class 3	225	3	82004631	5406
PG	Class 3	300	3	82004632	7083
PG	Class 3	450	3	82004633	10653
PG	Class 3	600	3	82004634	14223
PG	Class 3	750	2	82004635	17158
PG	Class 3	900	2	82004636	20608
AZ+	Class 8	50	3	82004653	1171
AZ+	Class 8	75	3	82004654	1776
AZ+	Class 8	100	3	82004655	2381
AZ+	Class 8	150	3	82004656	3591
AZ+	Class 8	225	3	82004657	5406
AZ+	Class 8	300	3	82004658	7083
AZ+	Class 8	450	3	82004659	10653
AZ+	Class 8	600	3	82004660	14223
AZ+	Class 8	750	2	82004661	17158
AZ+	Class 8	900	2	82004662	20608

 Protection System
CU - Copper electroplated
PG - Pregalvanised
EZ - Electrogalvanised
BC - Electrogalvanised Bichromate
BK8 - High Resistance Coating
GC - Hot Dip Galvanising
INOX - Stainless Steel
PT - Polyester Paint
AL - Aluminum
LN - Brass or Nickel-plated brass

 Insulating materials
PC+ABS - Halogen Free Polycarbonate + ABS

Pemsaband Vulcan

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PVC - Polyvinyl Chloride

PP - Halogen Free Polypropylene

PA6 - Halogen Free Polyamide 6

PA12 - Halogen Free Polyamide 12

PU - Polyurethane

PE - Polyethylene

NBR - NBR rubber

PET - Thermoplastic Polyester

TPV - Thermoplastic



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Load diagrams

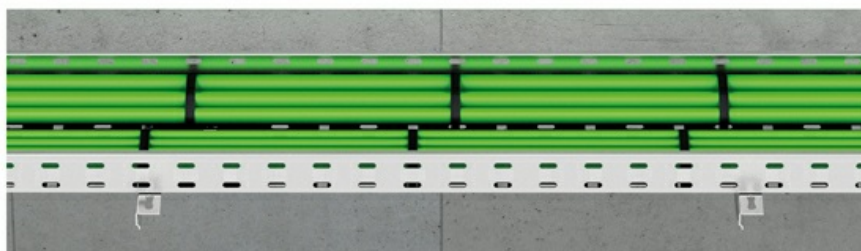


Technical data

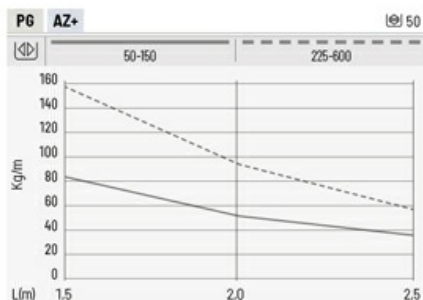
Test for safety working loads installed in the horizontal way

Values obtained in accordance with IEC 61537, edition 3, according to the horizontal tests of multiple spans listed in point 10.3.4 of this standard, with a safety factor of 170% and without collapse in any case.

The safety working loads test on the 750 and 900 mm wide cable trays were carried out in accordance with the test method set out in section 10.4, and also included a safety factor of 170%.



Working loads for widths of 750 and 900 mm on request



Working loads for widths of 750 and 900 mm on request





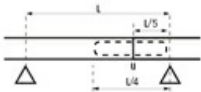
Technical data

Test for safety working loads installed in the horizontal way

Values obtained in accordance with IEC 61537, edition 3, according to the horizontal tests of multiple spans listed in point 10.3.4 of this standard, with a safety factor of 170% and without collapse in any case.



Safe working load test conditions for cable trays EN61537

Support Span	0.5 m - 1 m - 1.5 m - 2 m - 2.5 (depending on cable tray height)
Longitudinal deflection	Less than 1% support span
Transverse deflection	Less than 5% of the cable tray width
Placement of joints	$(L/4) > u > (L/5)$ 
Increased safety coefficient	1.7 times the declared safe working load

The safety working loads test on the 750 and 900 mm wide cable trays were carried out in accordance with the test method set out in section 10.4, and also included a safety factor of 170%.

Maximum Fill Capacity

The load values shown in the load diagrams and tables above are tested and designed to allow operation at the maximum capacity based on the usable tray cross-section shown in the table below:



	50	75	100	150	225	300	450	600	750	900
	mm ²									
12...18	542	822	1102	1662	2502	5000				
25	1171	1776	2381	3591	5406	7083	10653	14223	17158	20608
50	2381	3611	4841	7301	10863	14523	21843	29163	35808	43008

Cable tray configurator and selector

For more precise and specific configurations involving electrical cables, and taking into account the maximum working capacity and the usable cross-sectional area of the trays, Pemsa offers Pemsapro, a product configurator that selects the most suitable tray for the user-defined cable configuration. For access and more information, scan this QR code.



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Technical data

The technical data for the Pemsaband® Vulcan cable tray range, based on tests carried out in accordance with the international product standard IEC 61537, 3rd edition, is set out below.

Classification according to: **IEC 61537** **BS-EN 61537**

Type of material	Metallic
According to flame propagation	No flame propagation
Electrical continuity	With electrical continuity
Maximum impedance of a joint of cable trays	<50 mΩ
Maximum impedance along the length of a cable tray	<50 mΩ/m
Maximum impedance along the width of a cable tray	<50 mΩ
Maximum impedance between length and cover	<50 mΩ
Maximum impedance between the length and equipotential bonding (references 68000034 and 68000035, installed according to assembly instructions)	<50 mΩ
Electrical conductivity	Conductive
Resistance against corrosion	
Pregalvanized PG	Class 3
Hot Dip Galvanising GC	Class 3
AZ+ High resistance alloy	Class 8
Temperature of transport, storage, installation and use	
Minimum temperature	-50 °C
Maximum temperature	+150 °C
Perforation in the base area	
Pemsaband® Vulcan Perforated	B Classification
Impact strength	Up to 20 J
SWL test (Safety working loads)	
Horizontal SWL test	Spans 0.5, 1, 1.5, 2 and 2.5 meters

