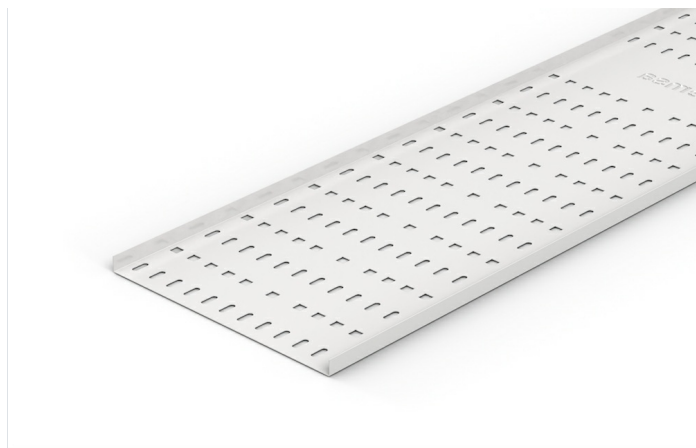


Pemsaband Vulcan Light Duty



Description

Pemsaband Vulcan Light Duty perforated metal cable tray with quick-connect system, available in 12 and 18 mm heights, made of steel with PG and AZ+ protection systems. The quick-connect system features tool-free fastening clips, saving on material and labor costs. The Pemsaband® Vulcan Perforated cable tray is designed for supporting and routing electrical and telecommunications cables for light duty loads. The Pemsaband Vulcan product range has been designed in accordance with the technical requirements of IEC 61537, Edition 3, and BS-EN 61537.

Advantages

VulcanFast quick-connect system with tool-free, quick-fixing clips saves on material and labor costs. Reduces installation time by 3 times.

Hole pattern designed to facilitate cable fixing.

Wide range of sizes and accessories. Dividers, Covers, Bends, T-joints, Crossovers, Risers, brackets and accessories for connecting lightnings or devices.

New design of profile and safety edge. The contact area increases by 80%. Increases the contact surface between the cable tray and cover, ensuring electrical continuity in accordance with Edition 3 of the IEC 61357 standard

High corrosion resistance. Available in PG and AZ+ protection systems. Class 3 and Class 8 according to BS EN 61537

Regulatory compliance: designed and developed in accordance with edition 3 of IEC 61537, Directive 2014/35/EU (CE marking) and UKCA marking, ensuring safety and reliability in electrical installations.

Applications

A system designed for the management, support, transport, and distribution of cables in electrical and/or telecommunications installations. It is applicable to, among others, the following areas: - Buildings, including public buildings, shopping centers, and Data Centers (DCs) . - Civil works and infrastructure, such as tunnels, parking garages, airports, and subway and railway lines. - The service and industrial sectors, being suitable for applications in the manufacturing, chemical, and food industries. The system is suitable for rapid installation indoors in controlled atmospheres, as well as in outdoor installations or humid environments, selecting the appropriate protection and finishing system in each case based on the environmental and service conditions.

Solutions



Main technical characteristics								
 PG	 Class 3	 12, 18	 50, 75, 100, 150, 225, 300	 3	 Steel with surface coating	 20 J	 IP23	
 -50 / 150 °C		 A1 No combustible		ETIM 10				

Product data			
		Ref	mm²
12	50	82004621	542
12	75	82004622	822
12	100	82004623	1102
12	150	82004624	1662
12	225	82004625	2502
18	300	82004626	5000

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
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

Load diagrams

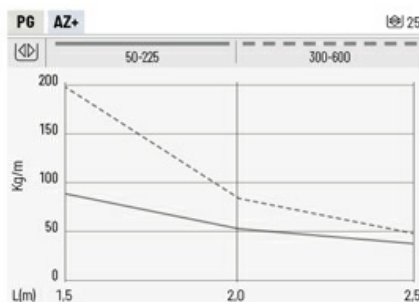
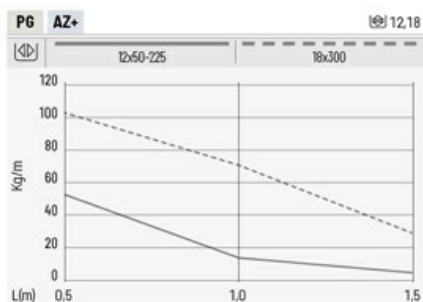
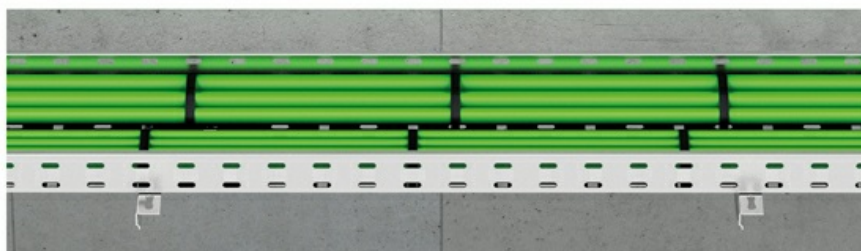


Technical data

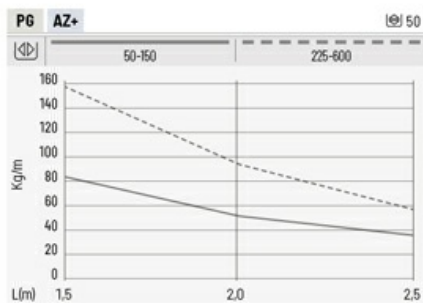
Test for safety working loads installed in the horizontal way

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



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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

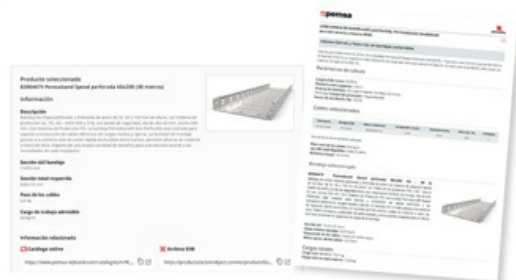
The load values shown in the load diagrams and tables above are tested and designed to allow operation at the maximum capacity based on the usable tray cross-section shown in the table below:



	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.



Pemsaband Vulcan Light Duty



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

