

Pemsaband Vulcan

10/10/2026

**Pemsaband Vulcan Heavy Duty** ( Ref: 82004667 )

1/5



Description

Advantages

Applications

Solutions



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Product data

|                                       |                          |                                |                            |
|---------------------------------------|--------------------------|--------------------------------|----------------------------|
| ETIM 10                               |                          | Material                       | Steel with surface coating |
| Huella de CO2. GWP A1-A3 (kg CO2 eq.) |                          | Impact Strength (J)            | 20 J                       |
| Protection System                     | AZ+                      | Section (mm2)                  | 10863                      |
| Finish                                | ZM High Resistance Alloy | IP                             | IP23                       |
| Resistance Class                      | Class 8                  | Working temperature range (°C) | -50 / 150 °C               |
| Flange (mm)                           | 50                       | Fire resistance                | A1 No combustible          |
| Width (mm)                            | 225                      |                                |                            |
| Length (m)                            | 3                        |                                |                            |

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

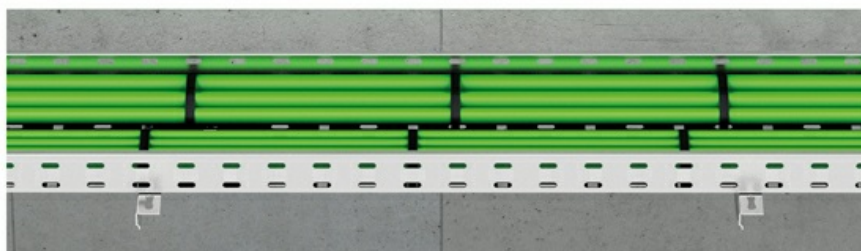


## Technical data

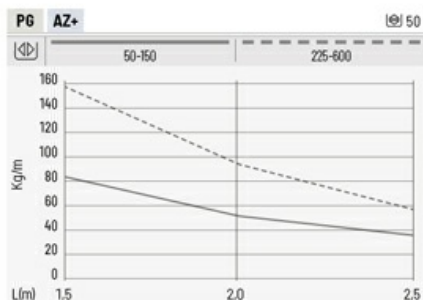
### Test for safety working loads installed in the horizontal way

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

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:  <b>BS-EN 61537</b>               |                                     |
| 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                                                                                                                          |                                     |
| 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 |





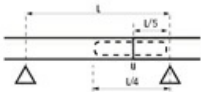
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### Safe working load test conditions for cable trays EN61537

|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| 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 <sup>2</sup> |      |      |      |       |       |       |       |       |       |
| 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 Pemsa Pro, a product configurator that selects the most suitable tray for the user-defined cable configuration. For access and more information, scan this QR code.

