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Use of the specification text:

- The sign '#' marks a choice. Only one option can be selected. All the text that follows the mark and is marked in red comes with that same option.
- All Vergokan brand names are marked in orange.
- titles marked in green indicate the possibility of multiple choices/options. These are mentioned by information.
- *Eventual remarks are marked in blue*

2 Wire trays Vergokan

Introduction

Wire trays are manufactured from steel wire.
Wire trays are to be installed according to the specifications in the AREI (Belgian regulations for Electrical Installations).
All Vergokan products are manufactured in accordance with the ISO 9001 Quality System.
All Vergokan products are CE Certified.
Wire trays are classified according to norm EN 61537.

2.1 Type of wire tray

2.1.1 Description of the system and dimensions

The wire tray consists of a prefabricated element formed from welded steel wire type # VF, # VFL

The side wall height measures #35, #60, #85 #110 mm depending on the type of wire tray, the number of cables, and the load, in compliance with the Vergokan Specifications.

2.1.2 Material thickness

The steel wire diameter of the wire trays is selected in accordance with the loading and support centres required.

the wire tray type VFL consists of longitudinal wires with diameter 4,5mm and transverse wires with diameter 3.5mm.
the wire tray type VF, suitable for heavier loads and/or larger spans; consist of wires with diameter 4,5mm and are strengthened with a double wire at the top of the tray.

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The maximum permissible load of each wire tray is tested by Vergokan in accordance with norm NBN EN 61537 part 10.

2.1.3 Compartments

Wire trays shall have a single compartment for LV or ELV cables.

Wire trays shall have two compartments to separate LV cable from ELV cables or data cables. The compartments are formed by installation of an L-shaped partition type SLOS of the same height as the side wall of the wire tray and attached by means of clips type VFSLOSCL fixed to the base of the wire tray.

2.1.4 Accessories

To complete the route of wire trays # type VFL, # type VF, all bends, cross-overs, T-pieces, etc are cut on site and assembled by means of joiners # type VFK, # type VFCB or fast fix snap-on joiners type KPVF (for height 60mm) or KPVFL 35 (for height 35mm).

2.1.5 Covers

The wire trays are closed with covers type D, which are attached to the wire trays with clips type # DCLVF # DCLVF 35 in stainless steel.
Covers with a width greater than 400 mm are manufactured with diagonal reinforcements.

2.1.6 Joining of the wire trays

Wire trays type # VF, # VFL are attached to one another with a

- # fast fix snap-on joiners type KPVF, for joining wire tray # VF 60, # VFL 60
- # fast fix snap-on joiners type KPVFL 35, for joining wire tray VFL 35
- # joiner clamps type # VFK # VFCB

2.1.7 Distribution boxes

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Distribution and mounting boxes are fixed to mounting plates that are attached using clips or bolts and nuts to the side wall of the wire tray.

2.2 Mounting of the Wire tray

The Wire tray system is:

Hung from structural ceiling, steel structure on threaded rod suspended by means of:
    # Ceiling bracket type PB, SDBG, adjustable for light inclining roof construction type PBR
    # Open suspension bracket type COMEGACL, COMEGA, OBZ, to which cables are loaded from the side
    # double suspension type OBG, BG, DR, ROMEGACL were wires are pulled?.

Suspended from structural ceilings using ceiling profiles type HSLECL, HSLDCL and wall brackets type WS, KCL, WKS, WK and adjustable brackets type WKSS
For combination brackets and ceiling profiles - please consult Vergokan documentation - Chapter 5
Suspended from structural ceilings using brackets type COMEGA, COMEGACL, OBZ, VFO
Mounted on wall brackets type LOMEGA, LOMEGACL, WS, KCL, WKS, WK and adjustable brackets type WKSS
Mounted under raised floor using floor brackets type VMB. ROMEGACL
Mounted against the wall on profiles type DR, L, Z, MP, VFM.
Mounted against the wall on multifunctional brackets type VS 41.

2.3 Materials and surface treatments

The wire trays are fabricated from steel and treated against corrosion that is suitable for their function and the environment in which they are installed.

Wire trays are fabricated from welded steel wire mesh. They are electro zinc plated after fabrication in accordance with norm EN ISO 2081.

The wire trays are fabricated from welded steel wire mesh. After fabrication, they are hot dip galvanised, complying with norm EN ISO 1461. During this process, after a series of preparatory treatments of the steel in which impurities are removed from the metal, the wire tray is immersed in a heated bath of pure liquid zinc.

The wire trays are fabricated from welded steel wire mesh and coated according to norm EN ISO 12944 with a thermosetting powder coating (GSB ST663 certified). During this process, after a series of chemical preparatory treatments of the steel, the powder is applied to the steel electro

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statically by means of air guns with a high negative voltage. Afterwards the coating is cured in a muffle oven.

The wire trays are fabricated from welded steel wire mesh and treated with a duplex coating complying with the Belgian Practice Guideline for duplex BPR 1197. This means that after the hot dip galvanising (complying with norm EN ISO 1461) the trays are coated according to norm EN ISO 12944 with a thermosetting powder coating (GSB ST663 certified).
In order to be suitable for coating, the hot dipped galvanised steel is, immediately after galvanizing, treated to remove impurities and imperfections.
After this, the galvanized steel receives a preliminary treatment to prepare for coating, involving removal of the zinc salts by immersing the steel in a chemical bath.

After preliminary treatment, the powder is applied electro statically by means of air guns with high negative voltage. Afterwards the coating is cured in a muffle oven.

The wire trays type INOXKBSI, INOXKG, are fabricated from stainless steel wire mesh type
- # AISI Inox 316 L / V4A.
- # AISI Inox 304 / V2A.

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