Spec Text_2_Vergokan_Wire Cable Trays_EN_2019
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Use of specification:

- The '#' character indicates that a choice needs to be made. There is only one option. All text that follows the character and is marked in 'red', is part of this choice.
- All Vergokan brand names are marked in orange.
- there are multiple choices/options available for titles shown in green. These are listed for information purposes.
- any notes are shown in blue

2 Vergokan Wire Cable Trays

Introduction

Wire cable trays manufactured from steel wire.
Wire cable trays are to be installed in accordance with AREI requirements.
All Vergokan products are manufactured in accordance with quality system ISO 9001.
All Vergokan products are CE marked.
Wire cable trays are classified in accordance with EN 61537.

2.1 Wire Cable Tray Type

2.1.1 System description and dimensions

The wire cable tray consists of prefabricated elements folded into a U-shape in type #VFU #VFUL welded steel wire.

The height of the vertical side walls for U-shaped wire cable trays is #30, #35, #60, #85, #110 mm
The width of the wire cable tray for U-shaped wire cable trays is #50, #65, #100, #150, #200, #250, #300, #350, #400, #450, #500, #550, #600 mm
(combinations of width versus height, can be verified in the catalogue).

#The wire cable tray consists of prefabricated elements folded into a G-shape from type GVFUL welded steel wire.

The height of the vertical side walls for G-shaped wire cable trays is #55, #60, #100 mm
The width of the cable tray for G-shaped wire cable trays is #100, #150 mm
(combinations of width versus height, can be verified in the catalogue).

Height and width are matched according to the type of wire cable tray, cable volume and load, in accordance with Vergokan instructions.

Spec Text_2_Vergokan_Wire Cable Trays_EN_2019
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2.1.2   Material thickness

The wire thickness of the wire cable trays has been adapted to suit the load and the required span.

type VFUL wire cable trays consist of 4.5 mm diameter longitudinal wires and 3.5 mm diameter transverse wires.

type VFU wire cable trays, suitable for heavier loads and/or larger spans, consist of 5.5 mm diameter longitudinal steel wires and 4.5 mm diameter transverse wires

type GVFUL wire cable trays, suitable for direct fixing to the ceiling or wall consist of with a 3.5 mm diameter steel wire

The maximum cable load and deflection has been tested by Vergokan in accordance with standard NBN EN 61537 chapter 10.

2.1.3   Compartmentalising

The wire cable trays consist of a single compartment and are used exclusively for high-current lines or exclusively for low-current lines.

The wire cable trays consist of two compartments to separate the high-current lines from the low-current lines. They feature a type SLOS L-shaped partition wall, height matched to the height of the wire cable tray and fixed into the wire cable tray by means of type VFSLOSCL clips.

2.1.4   Accessories

All bends, reducers, crosses, tees, etc. are to be adapted on site by cutting and bending. Connectors, depending on the type, are to be created using clip-on connector plates, standard connector plates or screwed connector clamps.

2.1.5   Covers

The wire cable trays feature type D covers, attached with the clip-on captive #DCLVF #DCLVF35 cover clamp provided for the purpose in stainless steel.
For widths of 400 mm and over, the covers feature a diamond cross to provide rigidity.

2.1.6   Connecting the wire cable trays

Type #VFU, #VFUL wire cable trays are joined to one another with
type KPVF clip-on connector plates for screwless connection of #VFUL60 #VFU60 #VFU85 #VFU110
type KPVFL35 clip-on connector plates for screwless connection of VFUL35

VERGOKAN NV
VAT BE 0422.878.131
RPR OUDENAARDE

ING   390-0638604-11
IBAN   BE30 3900 6386 0411
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Spec Text_2_Vergokan_Wire Cable Trays_EN_2019
April 2019 Edition

type #VFK, #VFCB screwed connector clamps

Type GVFUL wire cable trays are interconnected with type #VFK, #VFCB screwed connector clamps

Spec Text_2_Vergokan_Wire Cable Trays_EN_2019
April 2019 Edition

2.1.7   Branch boxes

Branch boxes and junction boxes must be attached to type #VFMM #VFMM35 mounting plates, which are either screwless or fixed to the side wall of the wire cable trays with bolts and nuts.

2.2   Wire cable tray hanger type

The wire cable tray system:

Suspended from #constructional ceilings, #steel structure via threaded rod fixing using:
        # Ceiling brackets type SDBG, for PBR sloping roof structures.
        # Type COMEGACLU, OBZ, OBGVF open hanger brackets; cables are inserted on one side.
        # Type BGVF, VFCB central hanger brackets.
        # Type OBG, DR VFOCL, MPVFCL trapeze hanger, cables are interwoven.
Suspended from structural ceilings via type HDHSLECL, HSLE3, HDHSLDCL support sections and type WSUN, KCL, WKS, HDWK, WKUMP, WKMP WKCL support profiles and WKSS adjustable-angle brackets.
For combinations of brackets and hangers - see literature - Chapter 5.
Suspended directly from structural ceilings via open type COMEGACLU, OBZ, VFO, OBGVF hanger brackets.
Mounted on type LOMEGACLU, WSUN, KCL, WKS, HDWK, WKMP wall brackets and WKSS adjustable-angle brackets.
Mounted under a raised floor on type VMB, ZCL floor brackets.
Mounted flush to the wall on type DR, L, Z, MP, VFM profiles.
Mounted flush to the wall on type VS 41 multifunctional brackets.

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Spec Text_2_Vergokan_Wire Cable Trays_EN_2019
April 2019 Edition

2.3   Materials and surface treatments

The wire cable trays are manufactured from steel and treated against corrosion according to the climate in which they are to be used and their function.

Type VFU, VFUL, GVFUL wire cable trays are manufactured from hot-dip pre-galvanised steel wire (in accordance with standard EN 10244-2), welded into mesh. The thickness of the zinc coating is at least 10 microns and it guarantees good corrosion resistance for a non-corrosive indoor climate. This treatment also makes the wire cable trays suitable for use in data centres and for other indoor environments sensitive to zinc particles.

Type HDVFU, HDVFUL, HDGVFUL wire cable trays are manufactured from welded steel wire. After manufacture, they are hot-dip galvanised in accordance with EN ISO 1461. In this process, after a series of pre-treatments, during which impurities are removed from the material, the steel is immersed in a heated bath of pure molten zinc.

Type PEVFU, PEVFUL, PEGVFUL wire cable trays are manufactured from welded steel wire and finish-painted in accordance with standard EN ISO 12944 with a thermally hardened powder coating (certified in accordance with GSB ST663). After the steel has been pre-treated chemically, the powder is applied electrostatically by means of spray guns capable of generating a high negative voltage. Post-curing takes place in a curing oven.

Type DUVFU, DUVFUL, DUGVFUL wire cable trays are manufactured from steel wire given a duplex protection in accordance with the Belgian Duplex BPR 1197 code of practice. This means that after the hot-dip galvanising process (EN ISO 1461) they are painted in accordance with the EN ISO 12944 standard with a thermosetting powder coating (certified in accordance with GSB ST663).
In order to be suitable for painting, the hot-dip galvanised steel undergoes an additional post-treatment as soon as possible after galvanisation, such as elimination of unevenness.
The galvanised steel is then pre-treated in order to be able to apply the coating. This involves removing zinc salts by means of a chemical bath.
After pre-treatment, the powder is applied electrostatically by means of spray guns capable of generating a high negative voltage. Post-curing takes place in a curing oven.

The wire cable trays are manufactured from stainless steel wire and are type I6VF from AISI 316 L / V4A Stainless steel.

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