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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*

5 Vergokan Floor installations

Introduction

Vergokan floor installation systems 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.

5.2 Vergokan raised floor systems

5.2.1 Description of the system

The raised floor range is a system, installed in a hollow or raised floor. Covers are installed where access is required. The type of cover is determined by the application and the floor finish.

5.2.2 Dimensions and characteristics of the floor trunking

Underneath a raised floor, cables are installed in wire trays **type VFL**. The height and width of the trays are determined depending on the available space under the raised floor and the quantity and load imposed by the cables.

The height of the wire trays is

- # 35mm with a width of #65, #100, #150, #200, #250, #350, #450, #550mm
- # 60mm with a width of #50, #100, #150, #200, #300, #400, #500mm

5.2.2.1 Compartments

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

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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.

5.2.2.2 Accessories

To complete the route of wire trays **type VFL** under the raised floor, 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).

5.2.2.3 Joining of the floor trunking

All wire trays **type VFL** under raised floor, are joined 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).

5.2.3 Material and surface treatments

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

5.2.4 Floor covers

5.2.4.1 Blind cover

The blind cover is **# square # round** and is placed and clinched into an opening in the floor with the sole purpose of closing it. The cover serves only as pulling box or inspection point. The material of the blind cover is selected depending on its function and the floor covering.

5.2.4.1.1 Blind cover for vinyl or carpet.

A blind cover for floor covering in carpet or vinyl is fabricated from Polypropylene. It is supplied with a 10 mm wide chamfered border which rests on the flooring and protects the floor covering.

The cover is

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rectangular, type **BDVV 5*182**, with dimension 257 x 182mm. The cover is fabricated from a Sendzimir pre-galvanized 2 mm steel sheet with a plastic border. Inside the cover, as standard there is, a 3 mm cardboard insert, leaving a usable height of 5 mm for inserting the floor covering. The cover is clinched to the raised floor by means of 4 integrated clamps type **VDK 4*30*60**. The clamping range is 30 to 60mm. The cover is gray (RAL 7011).

round type **BDRV**, with a diameter of 304mm. The cover is fabricated from a Sendzimir pre-galvanized 3 mm steel sheet and a plastic border. The cover has a usable height of 11mm for inserting the floor covering. Depending on the depth of the floor finish the cover is filled using a
cardboard insert, type **KKD** with depth # 1, # 3, # 5mm
polypropylene frame, type **RKD**, with depth # 3, # 5 mm.
The cover is clinched to the raised floor by means of 4 integrated clamps type **VDK 4*35*70**. The clamping range is 40 to 70mm and 35mm when used without a spring. The cover is # gray (RAL 7011), # black (RAL 9011).

The cover is rated IP 30

5.2.4.2 Square hinged floor covers

5.2.4.2.1 Hinged floor cover for vinyl or carpet

The square hinged cover type **KDvV 5*257** is fabricated from polypropylene. It is supplied with a 10 mm wide chamfered border which rests on the floor and protects the floor covering. The cover is clinched to the raised floor by means of 4 integrated clamps type **VDK 4*30*60**. The clamping range is 30 to 60mm.

In each of the side walls there are 6 sets of perforations spaced at 5mm centres, for positioning of the accessory plate holders .

The base plate of the hinged cover is fabricated from 3mm steel plate. A recess of 5mm allows for the installation of vinyl or carpet flooring.

The hinged cover is # gray (RAL 7011), # black (RAL 9011).

The cover is rated IP 30 closed and IP 20 when active.

The cover is supplied with a handle and two cable caps. These cable caps can be locked in an open or closed position.

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5.2.4.2 Hinged cover for parquet or tiles

For a wooden or tiled floor covering, with no water tightness requirements, a hinged cover fabricated from stainless steel AISI 304, type IKDVV is used. It is placed into an opening of 260mm x 260mm and the cover itself measures 257 x 257 mm.

It is supplied with a self supporting stainless steel border which rests on the floor. The cover is fixed to the floor by means of an adhesive, applied after having de-greased both the floor and the cover. Subsequently the cover is secured by means of silicone that must be allowed to dry for at least 24 hours prior to use.

In each of the side walls there are 6 sets of perforations spaced at 5mm centres for positioning of the accessory plate holders.

A recess of # 16 mm # 26 mm, allows for the installation of timber or tiled finish. Equipping with electrical supplies is only permitted in floor covers that will be cleaned by means of a dry or damp floor cloth.

The cover is supplied with a handle and cable outlet with two cable caps. These cable caps can be locked in an open or closed position. The cable caps are transparent. The cover is rated IP 30 closed and IP 20 when active.

5.2.4.3 Round hinged covers

5.2.4.3.1 Hinged cover for vinyl or tiles

A hinged cover for floor covering in carpet or vinyl is fabricated from polypropylene.

The cover is supplied with a 10 mm wide chamfered plastic border which rests on the floor and protects the carpet- or vinyl covering.

The cover is supplied with a handle and cable outlet with two cable caps. These cable caps can be locked in an open or closed position.

The cover type KDRV 5*257 with a diameter of 257mm, is to be placed in a round opening with diameter of 260mm. The cover is clinched to the raised floor by means of 2 integrated clamps type VDK 2*30*60. The clamp range is 30 to 60mm.

In the two short side walls there are 4 sets of 7 perforations spaced at 5mm centres for positioning of the accessory plate holders.

The base plate of the hinged cover is fabricated from 3mm steel plate. A recess of 5mm allows for the installation of a vinyl or carpet floor covering.

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The cover type **KDRV 6*304**, with a diameter of 304mm, is to be placed in a round opening with a diameter of 307mm. The cover is clinched to the raised floor by means of 4 integrated clamps type **VDK 4*35*70**. The clamp range is 40 to 70mm and 35mm without the use of a spring. In each of the side walls there are 6 sets of 7 perforations spaced at 5mm centres for positioning of the accessory plate holders. The bottom plate of the hinged cover is fabricated from 3mm steel plate. It is supplied with a 3mm deep polypropylene frame, leaving a usable height of 6mm for insertion of the floor covering. Depending on the depth of the floor finish the cover is filled using a
cardboard insert, type **KKD** with depth of # 1, # 3, # 5mm
polypropylene frame, type **RKD**, with depth of # 3, # 5 mm.

The hinged cover is # gray (RAL 7011), # black (RAL 9011).
The cover is rated IP 30 when closed and IP 20 when active.

5.2.4.4 Rectangular hinged covers

5.2.4.4.1 Rectangular hinged covers for vinyl or carpet

The rectangular hinged cover type **KDVV 5*182** is fabricated from polypropylene. It is supplied with a 10 mm wide chamfered border which rests on the floor and protects the carpet- or vinyl covering.

The cover is clinched to the raised floor by means of 4 integrated clamps type **VDK 4*30*60**. The clamp range is 30 to 60mm.

In the two short side walls there are 4 sets of perforations spaced at 5mm centres for positioning of the accessory plate holders.

The base plate of the hinged cover is fabricated from 3mm steel plate. A recess of 5mm allows for the installation of a vinyl or carpet floor covering.

The hinged cover is # gray (RAL 7011), # black (RAL 9011).

The cover is rated IP 30 when closed and IP 20 when active.

The cover is supplied with a handle and cable outlet with two cable caps. These cable caps can be locked in an open or closed position.

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5.3 Vergokan flush floor trunking systems

5.3.1 Description of the system

The floor installation range, **type OVG**, is an under floor system, where the trunking is embedded in screed material and the lids of the trunking are flush with the screed or finished floor.. The minimum depth of the screed shall be 55mm.

If floor equipped floor boxes are to be installed with the system, the minimum depth of the screed shall be 65mm

Given the fact that the lids of the floor trunking remain accessible, covers can be swapped, added or removed, depending on requirements.

5.3.2 Dimensions and characteristics of the floor trunking

The floor trunking **type OVG** is assembled from 2 extruded aluminum profiles and 2 plastic sides, which depending on the required height, can be fixed with the short or long side to the ground. The extruded profile is held in place using an aluminium leveling piece which allows for height adjustment; Levelling screws enable accurate adjustment to the required height..

the depth range with the long side down is 55 - 80mm

the depth range with the short side down is 80 - 110mm

The sides are braced by cross bars and the lid. Both have a width of #200, #300, #400mm.

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5.3.2.1 Compartments

Compartments within the flush floor trunking system can be created by fixing one or multiple L-shaped partitions, **type SLOS** to the under floor.

5.3.2.2 Accessories

The flush floor trunking, **type OVG** is to be completed by use of system components such as bends (**OVGB**), T-pieces (**OVGT**), cross-overs (**OVGK**), and end pieces (**OVGE**).

5.3.2.3 Lids

Flush floor trunking **type # OVG**, is supplied with a lid **type DOVG** which is screwed onto the cross bars. These lids remain accessible after screeding. It is advisable to leave the lid free from any floor covering or if necessary to cover them with an easily removable finish.

For the application of a hinged cover in the flush floor trunking system, a lid **# type DOVGV**, **type DOVGR**. is used as follows::

square with dimensions 257 x 257 mm, type DOVGV 257, for a hinged cover type KDV, IKDVV
rectangular with dimensions 182 x 257mm, type DOVGV 182, for a hinged cover type KDV.
round with a diameter of 257mm, type DOVGR 257, for a hinged cover type KDR.

5.3.2.4 Joining of the open floor trunking profiles

The side profiles of the flush floor trunking system, **type OVG**, are connected by means of a leveling and supporting piece, **type OGVST**, which also ensures electrical conductivity. In case of accessories such as bends, T-pieces, etc, the electrical conductivity is ensured by means of earth conductor cables and clamps.

5.3.3 Material and surface treatments

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The components of the flush flooring trunking system, **type OVG** are manufactured from;

- the extruded profiles from aluminum
- the L-shaped side profiles and the carpet lining from Polyvinylchloride
- the other parts, such as the cross bar, the lids, etc. are fabricated from continuously hot dipped pre-galvanized steel sheet, otherwise called Sendzimir galvanized. The galvanization complies with norms EN 10 143 and EN 10 346.

5.3.4 Floor covers

5.3.4.1 Square shaped hinged floor covers

5.3.4.1.1 Hinged floor cover for vinyl or carpet

The square hinged cover **type KDV 5*257** is fabricated from polypropylene. It is placed into a flush floor trunking lid **type DOVGV 257** with a square opening. The hinged cover has a dimension of 257x257mm.

The cover is supplied with a 10 mm wide chamfered border which protects the floor covering. The cover is clinched to the trunking by means of 4 clamps **type VDK 4*3*25**. The clamping range is between 3 and 25mm.

In each of the side walls there are 6 sets of perforations spaced at 5mm centres, for positioning of the accessory plate holders .

The base plate of the hinged cover is fabricated from 3mm steel plate. A recess of 5mm allows for the installation of vinyl or carpet flooring.

The hinged cover is **# gray (RAL 7011)**, **# black (RAL 9011)**.

The cover is rated IP 30 closed and IP 20 when active.

The cover is supplied with a handle and two cable caps. These cable caps can be locked in an open or closed position.

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5.3.4.1.2 Hinged cover for parquet or tiles (non water tight).

For a wooden or tiled floor covering, with no water tightness requirements, a hinged cover fabricated from stainless steel AISI 304, type **IKDVV** is used. It is placed into a flush floor trunking lid type **DOGV 257** with a square opening. The hinged cover has a dimension of 257x257mm.

The cover is supplied with a self supporting stainless steel plate which rests on the steel lid and is clinched to it by means of 2 clamps type **VDK 2*3*25**, with a clamping range between 3 and 25mm.

In each of the side walls there are 6 sets of perforations spaced at 5mm centres for positioning of the accessory plate holders.

A recess of **# 16 mm # 26 mm**, allows for the installation of timber or tiled finish.

The cover is rated IP 30 when closed and IP 20 when in use. The application of electrical supplies is only allowed in floors cleansed with a dry or semi-dry cloth.

The cover is supplied with a handle and cable outlet with two cable caps. These cable caps can be locked in an open or closed position. The cable caps are transparent.

5.3.4.2 Round shaped hinged covers

5.3.4.2.1 Hinged cover for vinyl or tiles

A hinged cover for floor covering in carpet or vinyl is fabricated from polypropylene.

The round hinged cover type **KDR 5*257** is fabricated from polypropylene. with a diameter of 257mm. The cover is placed into a flush floor trunking lid type **DOVGR 257** with a rectangular opening. The hinged cover has a diameter of 257mm.

The cover is supplied with a 10 mm wide chamfered plastic border which protects the carpet- or vinyl covering. The cover is clinched onto the trunking lid by means of 4 clamps type **VDK 4*3*25**. The clamping range is between 3 and 25mm.

In the two short side walls there are 4 sets of perforations spaced at 5mm centres for positioning of the accessory plate holders.

The base plate of the hinged cover is fabricated from 3mm steel plate. A recess of 5mm allows for the installation of a vinyl or carpet floor covering.

The hinged cover is **# gray (RAL 7011)**, **# black (RAL 9011)**.
The cover is rated IP 30 when closed and IP 20 when active.

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The cover is supplied with a handle and cable outlet with two cable caps. These cable caps can be locked in an open or closed position..

5.3.4.3 Rectangle hinged covers

5.3.4.3.1 Rectangle hinged covers for vinyl or carpet

The rectangle hinged cover type **KDV 5*182** is fabricated from polypropylene. It is placed into a flush floor trunking lid type **DOVGV 182** with a rectangular opening. The hinged cover has a dimension of 182x257mm.

The cover is supplied with a 10 mm wide chamfered border which protects the carpet- or vinyl covering. The cover is clinched onto the trunking lid by means of 4 clamps type **VDK 4*3*25**. The clamping range is between 3 and 25mm.

In the two short side walls there are 4 sets of perforations spaced at 5mm centres for positioning of the accessory plate holders.

The base plate of the hinged cover is fabricated from 3mm steel plate. A recess of 5mm offers the possibility to fill the inside of the cover with vinyl or carpet.

The hinged cover is # **gray (RAL 7011)**, # **black (RAL 9011)**.

The cover is rated IP 30 when closed and IP 20 when active.

The cover is supplied with a handle and cable outlet with two cable caps. These cable caps can be locked in an open or closed position.

edition - April 2013