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Spec Text_5_1_Vergokan_NEO_Uniform_Concrete_Floor_Systems_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. depending on the desired shape and floor finish. These are listed for information purposes.
- Any notes are shown in blue

5 Vergokan floor trunking systems

Introduction

Vergokan floor trunking is to be installed in accordance with AREI regulations.
All Vergokan floor trunking systems are manufactured in accordance with quality system ISO 9001.
All floor trunking is covered by the Low Voltage Directive, CE Marking Directive 93/68/EEC and is CE marked.

5.1 Vergokan flush floor trunking systems

5.1.1 Floor trunking system type

The floor trunking system is a flush floor trunking system, in which the floor trunking is completely recessed in the screed. The minimum depth of the screed is 65 mm for lowered installations and 85 mm for a fully equipped cover. The floor trunking exits in **type NEO** floor boxes, that serve as pull boxes or access points. Floor boxes are to be closed off by means of a blank lid in the case of a pull box and with a hinged lid in the case of an access point. The choice of hinged lid is geared to the floor finish, intended use and the required number of modules.

5.1.2 Floor trunking dimensions and features

The **type VGI** rectangular cross-section floor trunking is manufactured from 1.50 mm thick sheet steel for the top plate and 1.00 mm for the bottom
The **type VGLI** rectangular cross-section floor trunking is manufactured from 1.00 mm thick sheet steel for the top plate and 1.00 mm for the bottom

Its overall height is #28, #38, #48 mm width #170, #250, #350 mm.

The base and the lid are joined together by means of a spot weld.
The trunking features #1, #2 spot-welded partitions.

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5.1.2.1 Type NEO floor box adjustment

Type #VGLI, #VGI floor trunking is selected on the basis of the load and available floor depth, allowing for a screed covering of at least 30 mm. They are #28, #38, #48 mm high.

The type NEO universal floor box can be adjusted incrementally to the height of the floor trunking.

The floor box will be provided with a working lid.

This working lid will be removed when preparing to lay the screed and the floor box will be completed with a formwork element:

#VEVV2 for rectangular lids,
#VEVV3 for square lids,
#VERV3 for round lids.

This formwork element consists of a sleeve made of bplex® plastic sheet attached to the floor box by means of 4 plastic plugs and a bplex® ring. The sleeve is reinforced with a bplex® filler inserted into it. The maximum height of the finished floor with this formwork element is the height of the floor box + 250 mm.

The floor box will be completed with a formwork element when preparing for pouring polymer concrete:

#VEVP2 for rectangular lids,
#VEVP3 for square lids,
#VERP3 for round lids.

This formwork element consists of expanded polystyrene, which can be adjusted by means of 4 bolts on the type NEOT supporting aluminium frame and is mounted flush with the height of the finished floor.

5.1.2.2 Compartmentalising

Type #VGLI, #VGI floor trunking has #2 (specification S1), #3 (specification S2) compartments.

5.1.2.3 Accessories

Type NEO floor trunking is used to create the cable run (bend, cross, tee, etc.) of type #VGLI, #VGI enclosed floor trunking. A dropper and riser for type VSB floor trunking is to be utilised in order to create a feed-through with a riser. This accessory is of the same height, width and number of compartments as the floor trunking to which it is to be connected.

5.1.2.4 Connecting floor trunking

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The top plate of **type #VGLI #VGI** floor trunking is to be fitted 15 mm offset relative to the bottom plate. This enables a connection to be created between 2 floor trunking sections by overlapping. When anchoring the floor trunking to the subfloor, screw drills through both the top and bottom plates, thus bringing about equipotential bonding.

In order to prevent moisture ingress during screeding, adhesive tape is to be applied to each connection between 2 floor trunking sections and each connection to a floor box.

5.1.2.5 Floor trunking connection to floor box

The side walls of the **type NEO** floor box feature perforations at the same widths as the available floor trunking. These enable the side wall to be cut to the desired trunking width and folded against the base surface. The entries have stops to prevent the trunking from going too far into the floor box.

A mark in the centre of each side of the bottom plate simplifies the positioning of the box. It is sufficient to fix the box to the floor at 4 points (8 holes are available).

5.1.3 Materials and surface treatments

The **type #VGLI, #VGI** floor trunking system floor trunking and **type NEO** floor boxes are manufactured as standard from continuous hot-dip galvanised structural steel. It is galvanised by the Sendzimir process in accordance with standards EN 10 143 and EN 10 346.

5.1.4 Floor lids

Once the screed has cured, both the cardboard filler and the polypropylene sleeve are removed. In the case of polymer concrete, the polystyrene formwork element needs to be broken out. A floor lid will now be fitted in the recess. The material, as well as its backing, will be geared to the floor finish and the load.

5.1.4.1 Lid kits for vinyl, laminate or carpet.

A polypropylene lid is used for carpeting, laminate or vinyl floor coverings. An AISI 304 stainless-steel variant is also available.

5.1.4.1.1 Blank lid with rim

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The blank lid is # round, #rectangular, #square and is fitted over the floor box in the recess in the screed for the purpose of closing it off. The box does not contain any equipment and is only used as a pull box.

The #type BDRKK3 (round), #type BDVKK2 (rectangular), #type BDVKK3 (square) blank lid is fitted into the recess in the screed and is clamped into it by means of previously fitted universal clamps.

The lid has a 9.5 mm bevelled edge to protect the carpet or vinyl covering. It is reinforced in the flat with 3 mm thick Sendzimir galvanised sheet steel.

The overall dimensions of the lid are # 347 mm diameter (round), # 287 x 212 mm (rectangular), # 287 x 287 mm (square).

The available recess in the lid for laying floor coverings is between a minimum of 5 mm and a maximum of 12 mm.

The recess can be adjusted using a #type OHEVB2 (rectangular), #type OHEVB3 (square) packer

The blank lid is coloured # grey (RAL 7011), # black (RAL 9011).

The IP rating of the lid is 30 and it is purely suitable for use in rooms which are cleaned dry.

5.1.4.1.2 Hinged lid with rim

The hinged lid is #round type KDRKK3, #rectangular type KDVKK2, #square type KDVKK3, is to be fitted into the recess in the screed and is clamped into it by means of previously fitted universal clamps.

The lid consists of 3 parts, a lid frame (opening part), the bottom frame (resting on the floor and attached to it) and the box holder (device box carrier), all manufactured in polypropylene.

The hinged lid is #square type KDVIRK3, #rectangular type KDVIRK2, is to be fitted into the recess in the screed and is clamped into it by means of previously fitted universal clamps.

The lid consists of 3 parts, a lid frame (opening part), the bottom frame (resting on the floor and attached to it) and the box holder (device box carrier). The lid frame and bottom frame are manufactured from AISI 304 stainless steel, the box holder is manufactured from polypropylene.

The bottom frame has a 9.5 mm bevelled edge to protect the carpet or vinyl covering. The overall dimensions are # 347 mm diameter (round), # 287 x 212 mm (rectangular), # 287 x 287 mm (square).

The lid frame is reinforced in the flat with 3 mm thick Sendzimir galvanised sheet steel. The available recess in the lid for laying floor coverings is between a minimum of 5 mm and a maximum of 12 mm.

The recess can be adjusted using a #type OHER3 (round), #type OHEV2 (rectangular), #type OHEV3 (square) packer.

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The box holder features 6 sets of 6 horizontal perforations, spaced vertically at 5 mm on two sides for rectangular and on all sides for round and square hinged lids. It will be equipped with device boxes:

for low recessed installation for finished floor heights 65 mm and over,
type TSBL3, device box for recessed installation in square and round lids
type TSBL2, device box for recessed installation in rectangular lids

angled for finished floor heights 76 mm and over, type TSBUD
standard device box for finished floor heights 84 mm and over, type TSBU,

The number of boxes is geared to the geometry of the lid.

The hinged lid is coloured # grey (RAL 7011), # black (RAL 9011).

The IP rating of the lid is 30 when closed and 20 in used and it is purely suitable for use in rooms which are cleaned dry.

The lid features a central opening handle and 2 cord outlets either side with two cover flaps and an integral cable tidy. These flaps can be locked in the open and closed positions.

5.1.4.2 Lid kits for tiles, parquet or polymer concrete

A blank lid in AISI 304 stainless steel is used for floor coverings in tiles, parquet or polymer concrete.

These lids are supported by a type #NEOT3 (round and square lids), #NEOT2 (rectangular lids) integral aluminium support frame. This frame is fixed in plastic feet that click into the recesses in the bottom of the floor box.

The placement of the support frame depends on the overall height of the floor:

the support frame is to be placed in the low position (indicated by the letter L), for finished floor levels from 76 mm to 108 mm. This involves fitting the frame directly into the plastic feet.

the support frame is to be placed in the high position (indicated by the letter H), for finished floor levels 104 mm and over. In this case, the spacer nuts are screwed into the underside of the frame in line with the height. The undersides of the spacer nuts are fixed in the plastic feet in the floor box. The height of the spacer nuts is # 48 mm (type AM6.48), # 96 mm (type AM6.96) and up to a maximum of 4 can be screwed together, depending on the height required.

5.1.4.2.1 Blank lid for tiles, parquet or polymer concrete

The blank lid is #round, #rectangular, #square and is fitted over the floor box in the recess in the screed for the purpose of closing it off. The box does not contain any equipment and is only used as a pull box.

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The lid consists of 2 parts, a lid frame (opening part) and the bottom frame (which is built in and rests on the support frame). Both the lid frame and the bottom frame are manufactured from stainless steel.

The **#square type BDVITWD3 blank lid**, **#round type BDRITWD3 blank lid**, **#rectangular type BDVITWD2 blank lid** is to be fitted in the recess in the screed, on the **#NEOT3 (round and square)**, **#NEOT2 (rectangular)** aluminium bottom frame and is levelled continuously relative to the finished floor surface using 4 bolts.

The overall dimensions of the lid are **#327 mm diameter (round)**, **#192 x 267 mm (rectangular)**, **#267 x 267 mm (square)**. It has a straight edge against which the covering is placed (flush with the finished floor level).
In the case of a square cover, it can be mounted 4 ways in the bottom frame.

The available recess in the cover for laying the floor covering is 26 mm.
The IP rating of the lid is 53 and it is suitable for use in rooms which are cleaned wet.

5.1.4.2.2 Hinged lid for parquet (not waterproof).

A hinged lid made of AISI 304 stainless steel is used for floor coverings in parquet or other finishes where there is no requirement for watertightness. The lid consists of 3 parts, a lid frame (opening part), the bottom frame (which is built in and rests on the support frame) and the box holder (device box carrier). The lid frame and the bottom frame are manufactured from stainless steel, the box holder from polypropylene.

The lid is #square type KDVIT3, #rectangular type KDVIT2, it is to be fitted in the recess in the screed, on the **#NEOT3 (square)**, **#NEOT2 (rectangular)** aluminium support frame and is levelled continuously relative to the finished floor surface using 4 bolts.

The solid lid is square type KDVIT3, it is to be fitted in the recess in the screed, on the **NEOT3** aluminium support frame and is levelled continuously relative to the finished floor surface using 4 bolts. The lid does not include a depth recess due to the solid stainless-steel plate.

The overall dimensions of the bottom frame of the lid are **#267 x 267 mm (square)**, **#192 x 267 mm (rectangular)**. It has a straight edge against which the covering is placed (flush with the finished floor level).

The box holder features 6 sets of 6 horizontal perforations, spaced vertically at 5 mm on two sides for rectangular and on all sides for round and square hinged lids. It will be equipped with device boxes:

for low recessed installation for finished floor heights 65 mm and over,

type TSBL3, device box for recessed installation in square and round lids

type TSBL2, device box for recessed installation in rectangular lids

angled for finished floor heights 76 mm and over, type TSBUD

standard device box for finished floor heights 84 mm and over, type TSBUD,

The number of boxes is geared to the geometry of the lid.

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The IP rating of the lid is 30 when closed and 20 in used and it is purely suitable for use in rooms which are cleaned dry.

The lid features a central opening handle and 2 cord outlets either side with two cover flaps and an integral cable tidy. These flaps can be locked in the open and closed positions.

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5.1.4.2.3 (Hinged) lid for tiles and polymer concrete (waterproof)

A stainless-steel hinged cover with raised cable entry is used for floor coverings in tiles or polymer concrete, which are required to be watertight.

The lid consists of 3 parts, a lid frame (opening part), the bottom frame (which is built in and rests on the support frame) and the box holder (device box carrier).

The cover is #a square type DVITWD3 lid frame, #square type KDVITWD3 hinged lid, #a type DRITWD3 round lid frame that is to be fitted in the recess in the screed, on the NEOT3 aluminium support frame and is levelled continuously relative to the finished floor surface using 4 bolts.

The solid cover is #a square type DVITWDV3 lid frame, #square type KDVITWD3 hinged lid that is to be fitted in the recess in the screed, on the NEOT3 aluminium support frame and is levelled continuously relative to the finished floor surface using 4 bolts. The lid does not include a depth recess due to the solid stainless-steel plate.

The overall dimensions of the bottom frame of the lid are #267 x 267 mm (square), 327 mm diameter (round). It has a straight edge against which the covering is placed (flush with the finished floor level).

In the case of a square lid frame, it can be mounted 2 ways in the bottom frame.

The available recess in the lid frame for laying the floor covering is 26 mm.

This lid is to be fitted in the recess in the screed, on the NEOT3 aluminium support frame and is levelled continuously relative to the finished floor surface using 4 bolts.

The overall dimensions of the top frame of the hinged lid are 263 x 263 mm. It has a straight edge against which the covering is placed (flush with the finished floor level). NB, the opening part can only be fitted one way in the frame.

The available recess in the cover for laying the floor covering is 26 mm.

The box holder features 6 sets of 6 horizontal perforations, spaced vertically at 5 mm on two sides for rectangular and on all sides for round and square hinged lids. It will be equipped with device boxes:

for low recessed installation for finished floor heights 65 mm and over,

type TSBL3, device box for recessed installation in square and round lids

type TSBL2, device box for recessed installation in rectangular lids

angled for finished floor heights 76 mm and over, type TSBUD

standard device box for finished floor heights 84 mm and over, type TSBUD,

The number of boxes is geared to the geometry of the lid.

A cable entry (in aluminium) is provided in the centre of the lid. The lid can also be equipped with a type KUWDT cable entry barrel which is screwed to the cable entry. The cable entry with barrel and the screw cap protrude by 65 mm above the tiles.

The protection rating is IP 23 when in use.

The screw cap is screwed directly into the cover when not in use. The protection rating is then IP 53.

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In the case of the **KDVITWD3**, the lid features 2 locking screws which ensure perfect waterproofing on the one hand and serve as intrusion protection on the other.