Technical Manual
New VegaD

for surface-mounting
flush-mounting
& Accessories

:hager

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1 About this manual

These instructions are an integral part of the New VegaD enclosures.

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1.1 Subject of the manual

This document is intended for users of the flush- and surface-mounted New VegaD enclosures made by Hager. The instruction manual describes both the technology and the product ranges agreed with the respective markets, including accessories and spare parts required at the time of publication. In this manual, some features are described as an USP (Unique Selling Point) and indicate a clear product differentiation on the market at the time of publication. It provides also safety information for electrically skilled persons/the installer about the product's life cycle phases.

- Read and observe this manual before you start working on the enclosure or the switchgear and controlgear assembly.
- Also observe the supplied assembly manual for the respective enclosure or enclosure accessories.
- Store this manual and the assembly manuals in a safe place. The authorised personnel must have access to the manuals at all times.

As technical documentation, the manual should accompany the products described during their entire lifetime and is thus subject to periodical revisions, modifications and adjustments.

1.2 Warranty and Liability

These instructions do not extend the Sales and Delivery Conditions of Hager. No new claims concerning the warranty or guarantee, which extend beyond the Sales and Delivery Conditions, can be derived from this instruction manual.

Liability note

Hager reserves the right to modify or supplement the product or the documentation at any time without prior notice. Hager assumes no liability for typographical errors and any damage which may arise from them.

2 For your safety

- Avoid dangers. Adherence to the safety information in this section is a prerequisite for the safe assembly and use of the distribution board.
- Also observe the safety information provided in other sections.

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2.1 Proper use

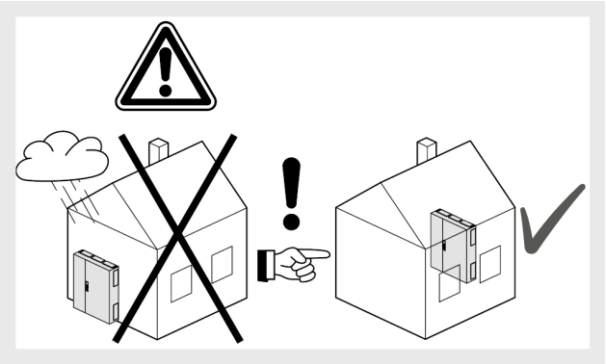
The Hager New VegaD enclosure is a product offering for flush-mounted and surface installations, protected to IP30/40/41, for residential and commercial buildings with a maximum supply current of 160 A.

New VegaD flush enclosures are installed at a depth of 110 mm in the wall. They are available in 6 different heights and 2 different depths.

New VegaD surface enclosures are installed at a depth of 193 mm on the wall. They are available in 6 different heights.

The New VegaD enclosures have been equipped with components from the New VegaD internal fitting system.

Hager's tried and tested New VegaD enclosures and the New VegaD internal fitting system enable the implementation of switchgear and controlgear assemblies according to EN 61439 Part 3 (Distribution boards intended to be operated by ordinary persons / DBO).



Fixed indoor installation/wall mounting

With its enclosed design, the New VegaD enclosures are intended for stationary, indoor, surface- and flush-mounting in walls/hollow walls. The operating conditions for the indoor installation according to EN 61439 and the maximum ambient temperatures must be observed at the place of installation.

The New VegaD enclosures meet protection types IP30/IP40/IP41 when equipped with internal system and/or closed or slotted doors. The instructions in this manual regarding compliance with the protection type must be observed during installation works.

The New VegaD enclosures are available in protection class II (double insulated). The instructions in this manual regarding compliance with the protection type must be observed during installation works.

For more detailed information, refer to the technical data.

Intended use also includes:

- Reading and observing this manual, the installation manuals and the manuals for the internal fitting system
- Complying with the requirements for authorised personnel.

Misuse

Any other uses than those mentioned in this chapter as well as any modifications to the distribution enclosure are considered to be misuse. Hager does not assume any liability for damages resulting from misuse.

Limitation of operating areas

There are certain areas in which the New VegaD enclosure may not be used, in order to prevent hazards or damage to the enclosure.

The New VegaD is not suitable for use:

- in areas that require a higher protection type,
- in areas where ATEX directives must be observed,
- in operating sites at risk of fire,
- in corrosive environments. In particular, the enclosure and internal components can become damaged if used in chlorinated, sulphurous, acidic or saline environments.

2.2 Requirements for authorised personnel

- Only qualified electrically skilled persons may assemble, install, commission switchgear and controlgear assemblies, perform extensions, troubleshooting or maintenance and disassemble and dispose of them.
- The qualified electrically skilled persons must have appropriate experience in initial testing and subsequent commissioning, troubleshooting and maintenance.

Product life cycle phase	Minimum training, qualifications or competence
Planning	Electrically skilled person, consultant electrical engineer
Transport, assembly, installation	Electrically skilled person
Commissioning	Electrically skilled person with appropriate testing experience
Operation	Short-circuit devices for operation by ordinary persons inside distribution boards for operation by ordinary persons according to EN 61439-3 (DBO): Ordinary persons All other components must be secured against use by ordinary persons.
Inspection and maintenance	Electrically skilled person with appropriate testing experience
Extensions	Electrically skilled person, planning and documentation required
Disassembly, disposal	Electrically skilled person, only for clearly defined mechanical and electrical work: electrically instructed person

- An electrically skilled person by virtue of their professional training, skills and experience as well as knowledge of the relevant regulations can assess the work assigned to them and identify possible dangers.
- An electrically instructed person must be sufficiently informed and supervised by an electrically skilled person. The instructed person must thus be capable of identifying risks and avoiding dangers as well as dangers due to electricity.
- Anyone who is not an electrically skilled person or an electrically instructed person should always be considered as a non-professional, ordinary person. Non-professional, ordinary persons should never perform work in electrical systems independently or on their own authority. Non-professional, ordinary persons may only operate short-circuit devices intended for use by ordinary persons according to EN 61439-3.

3 Product range by New VegaD surface

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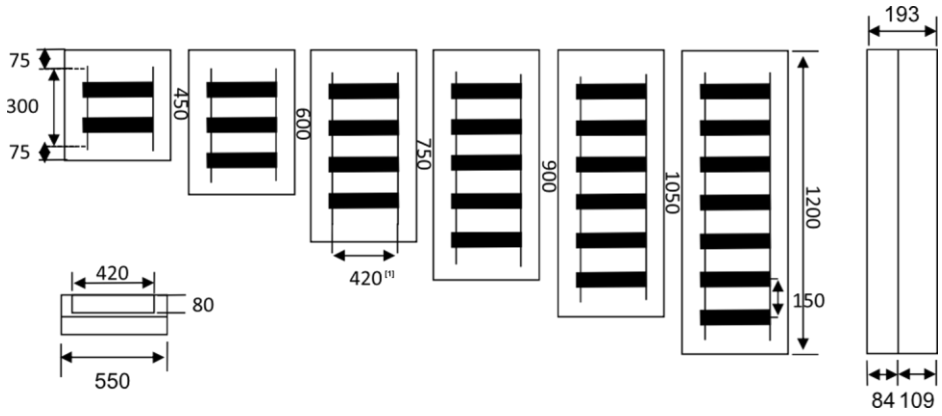
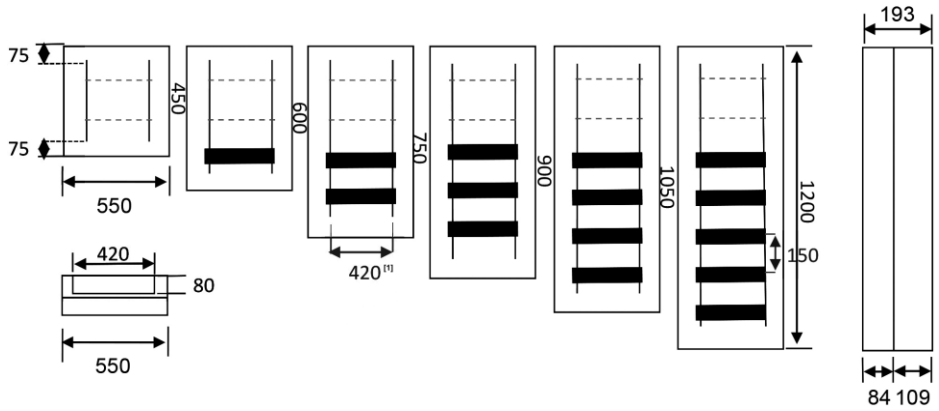
3.1 External dimensions

FDX2 ACN / BN / CN / DN / LN / RN / ZN full equipped



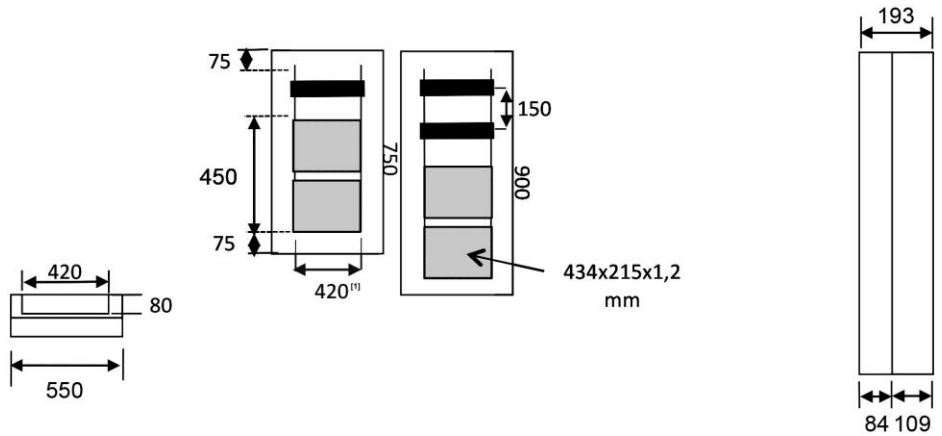
[1] Between uprights

FDX2 AN / MN partly equipped



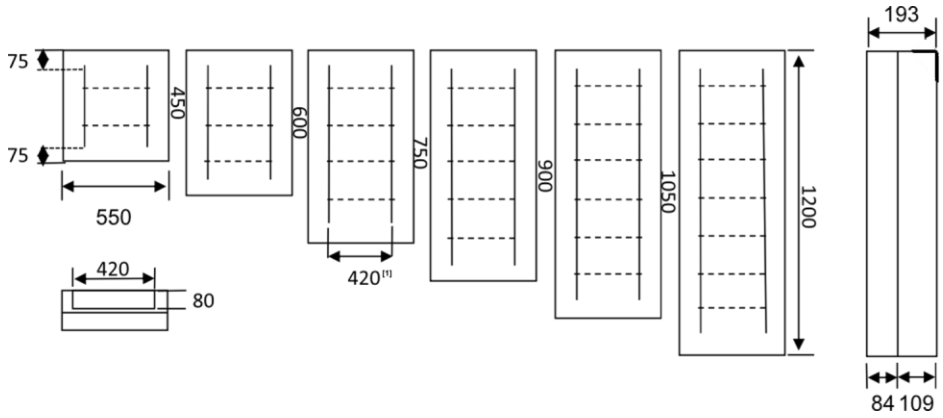
[1] Between uprights

FDX2 BMN partly equipped, Multimedia



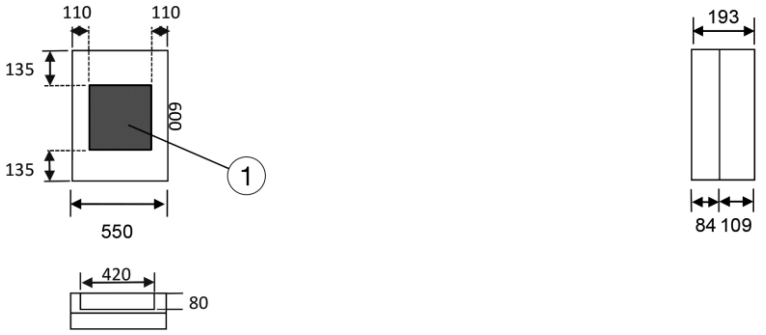
[1] Between uprights

FDX2GN empty



[1] Between uprights

FDX2ZN tarif bleu triphasé



[1] French Platine Michaud 330 x 330 mm

3.2 Market-specific product ranges

3.2.1 ACN Version

- full equipped with transparent door
- door mounted-in
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Multi-functional side bracket for surface or flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	DIN A4 label sheet with type sticker
FD22ACN	1x	1x KN26E	-	4x	1x	1x	1x	1x	1x
FD32ACN	1x	2x KN22E	1x KN99E	4x	1x	1x	1x	1x	1x
FD42ACN	1x	1x KN22E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	1x
FD52ACN	1x	1x KN22E / 1x KN26E	1x KN99E	6x	1x	1x	1x	1x	1x
FD62ACN	2x	3x KN26E	2x KN99E	6x	1x	1x	1x	1x	1x
FD72ACN	2x	3x KN26E	2x KN99E	6x	1x	1x	1x	1x	1x

Example: FD52ACN

3.2.2 AN Version

- partly equipped without door
- two first rows to complete
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Multi-functional side bracket for surface	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. and holder	Cable strain relief bar	Drawing map
FD22AN	1x	1x KN26E	-	-	1x	1x	1x	1x	-	1x	1x
FD32AN	1x	2x KN22E	1x KN99E	2x	1x	1x	1x	1x	1x	1x	1x
FD42AN	1x	1x KN22E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	2x	1x	1x
FD52AN	1x	1x KN22E / 1x KN26E	1x KN99E	6x	1x	1x	1x	1x	3x	1x	1x
FD62AN	2x	3x KN26E	2x KN99E	8x	1x	1x	1x	1x	4x	1x	1x
FD72AN	2x	3x KN26E	2x KN99E	10x	1x	1x	1x	1x	5x	1x	1x

Example: FD42AN

3.2.3 BMN Version

- full equipped with plain door
- door mounted-in, door opening angle 135°
- with Quick-Connect terminal Green/Yellow

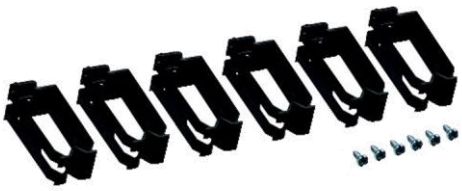
Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	DIN rails 24 modules	Front cover	Multi-functional side bracket for surface	Instruction sheet with 3 x socket outlet explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. and holder	Drawing map
FD42BMN	1x	1x KN06E	1x	1x FD00C4	2x	1x	1x	1x	1x	1x	1x
FD52BMN	1x	1x KN06E	2x	1x FD00C1	4x	1x	1x	1x	1x	2x	1x

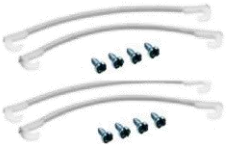
(continuation)	Cable straps	Elastic strips	TV sticker	Aeration grid kit FD00P5	Mounting plate FD00M1	Cable bracket Univers	35 x screw bag for Multi-media	Earthing cable for Multi-media	3 x F-type Socket outlet VZ00ASF	Socket outlet mounting steel holder	Mutimedia device starting kit 1 x TN003S + 1 x TN010S
FD42BMN	4x	4x	1x	1x	2x	6x	1x	1x	1x	1x	1x
FD52BMN	4x	4x	1x	1x	2x	6x	1x	1x	1x	1x	1x

Example: FD52BMN

Parts delivered-by in each BMN enclosure

FD00P5





FZ794

VZ00ASF

Example of installation

Example: standard enclosure FD42CN (left) associated with multimedia enclosure FD42BMN (right)

3.2.4 BN Version

- full equipped with plain door
- door mounted-in, door opening angle 135°
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Multi-functional side bracket for surface	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. and holder	Drawing map
FD22BN	1x	1x KN10E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	2x	1x
FD32BN	1x	1x KN06E / 2x KN26E	2x KN99E	6x	1x	1x	1x	1x	3x	1x
FD42BN	2x	4x KN18E	3x KN99E	8x	1x	1x	1x	1x	4x	1x
FD52BN	2x	1x KN14E / 3x KN26E	3x KN99E	10x	1x	1x	1x	1x	5x	1x
FD62BN	2x	1x KN06E / 4x KN26E	4x KN99E	12x	1x	1x	1x	1x	6x	1x
FD72BN	2x	6x KN22E	5x KN99E	14x	1x	1x	1x	1x	7x	1x

Example: FD32BN

3.2.5 CN Version

- full equipped with transparent door
- door mounted-in, door opening angle 135°
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Multi-functional side bracket for surface	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. and holder	Drawing map
FD22CN	1x	1x KN10E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	2x	1x
FD32CN	1x	1x KN06E / 2x KN26E	2x KN99E	6x	1x	1x	1x	1x	3x	1x
FD42CN	2x	4x KN18E	3x KN99E	8x	1x	1x	1x	1x	4x	1x
FD52CN	2x	1x KN14E / 3x KN26E	3x KN99E	10x	1x	1x	1x	1x	5x	1x
FD62CN	2x	1x KN06E / 4x KN26E	4x KN99E	12x	1x	1x	1x	1x	6x	1x
FD72CN	2x	6x KN22E	5x KN99E	14x	1x	1x	1x	1x	7x	1x

Example: FD52CN

3.2.6 DN Version

- full equipped without door
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Multi-functional side bracket for surface	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. and holder	Cable strain relief bar	Drawing map
FD22DN	1x	1x KN26E	-	4x	1x	1x	1x	1x	2x	1x	1x
FD32DN	1x	2x KN22E	1x KN99E	6x	1x	1x	1x	1x	3x	1x	1x
FD42DN	1x	1x KN22E / 1x KN26E	1x KN99E	8x	1x	1x	1x	1x	4x	1x	1x
FD52DN	1x	1x KN22E / 1x KN26E	1x KN99E	10x	1x	1x	1x	1x	5x	1x	1x
FD62DN	2x	3x KN26E	2x KN99E	12x	1x	1x	1x	1x	6x	1x	1x
FD72DN	2x	3x KN26E	2x KN99E	14x	1x	1x	1x	1x	7x	1x	1x

Example: FD42DN

3.2.7 GN Version

- empty without door
- without Quick-Connect terminals

Equipment delivered-by	PEN QC holder 24 modules wide	Instruction sheet with Quick-Connect explanation	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws
FD22GN	1x	1x	1x	1x
FD32GN	1x	1x	1x	1x
FD42GN	1x	1x	1x	1x
FD52GN	1x	1x	1x	1x
FD62GN	2x	1x	1x	1x
FD72GN	2x	1x	1x	1x

Example: FD42GN

3.2.8 LN Version

- full equipped without door
- without Quick-Connect terminals

Equipment standard	PEN QC holder 24 modules wide	Multi-functional side bracket surface or flush	Instruction sheet w /o Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. and holder
FD22LN	1x	4x	1x	1x	1x	1x	2x
FD32LN	1x	6x	1x	1x	1x	1x	3x
FD42LN	1x	8x	1x	1x	1x	1x	4x
FD52LN	1x	10x	1x	1x	1x	1x	5x
FD62LN	2x	12x	1x	1x	1x	1x	6x
FD72LN	2x	14x	1x	1x	1x	1x	7x

Example: FD42LN

3.2.9 MN Version

- partly-equipped without door
- two first rows to complete
- with Quick-Connect terminals Green/Yellow & Blue

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Multi-functional side bracket for surface	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. and holder
FD22MN	1x	1x KN10N / 1x KN10E	-	-	1x	1x	1x	1x	-
FD32MN	1x	1x KN18N / 1x KN18E	-	2x	1x	1x	1x	1x	1x
FD42MN	1x	1x KN22N / 1x KN22E	-	4x	1x	1x	1x	1x	2x
FD52MN	1x	1x KN26N / 1x KN26E	-	6x	1x	1x	1x	1x	3x
FD62MN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	8x	1x	1x	1x	1x	4x
FD72MN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	10x	1x	1x	1x	1x	5x

Example: FD42MN

3.2.10 RN Version

- full equipped without door
- with Quick-Connect terminals Green/Yellow & Blue

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Multi-functional side bracket surface or flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws (FD versions only)	Paper cover marking strips 24 mod. and holder
FD22RN	1x	1x KN10N / 1x KN10E	-	4x	1x	1x	1x	1x	2x
FD32RN	1x	1x KN18N / 1x KN18E	-	6x	1x	1x	1x	1x	3x
FD42RN	1x	1x KN22N / 1x KN22E	-	8x	1x	1x	1x	1x	4x
FD52RN	1x	1x KN26N / 1x KN26E	-	10x	1x	1x	1x	1x	5x
FD62RN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	12x	1x	1x	1x	1x	6x
FD72RN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	14x	1x	1x	1x	1x	7x

Example: FD72RN

3.2.11 ZN Version

- equipped with French platine kit Tarif bleu triphasé without door

Equipment standard	Kit Michaud Platine 330x300 with cover	Instruction sheet with Quick-Connect explanation	4 screws kit 4x16 for optional PEN holder or slider fixing	5 caps kit for covering wall-fixation screws	Paper cover marking strips 24 mod. Univers
FD32ZN	1x	1x	1x	1x	1x

Example: FD32ZN

4 Product range by New VegaD flush

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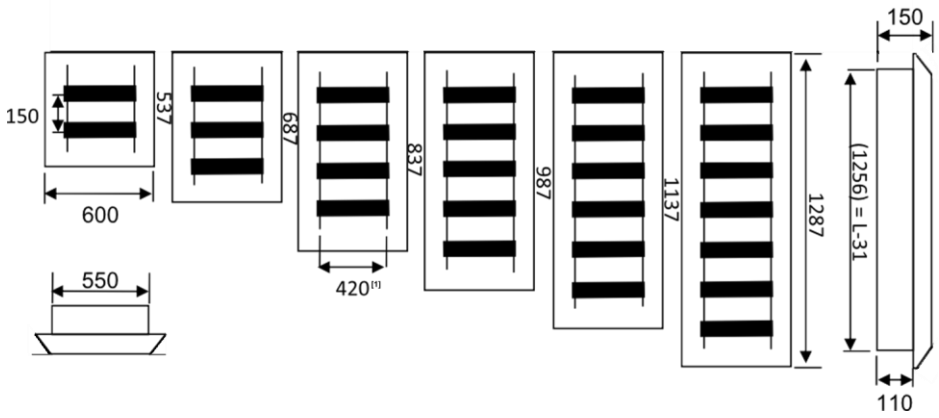
Market-specific product ranges 26

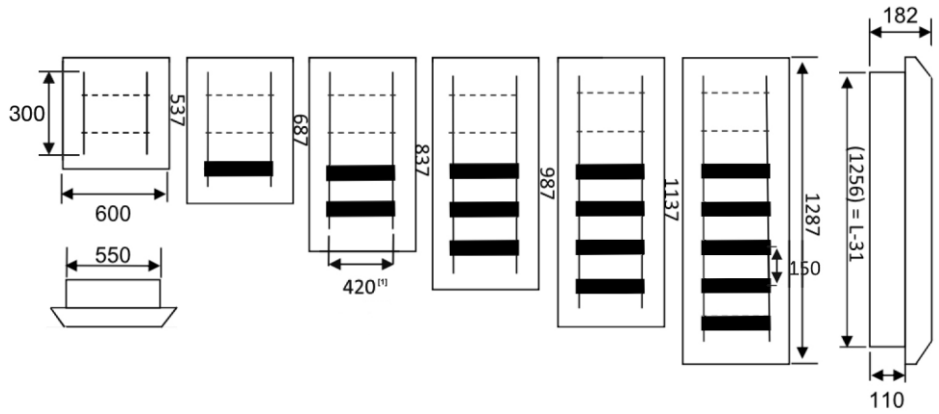
4.1 External dimensions

FUX2 ACN / BN / CN / DN / LN / RN full equipped



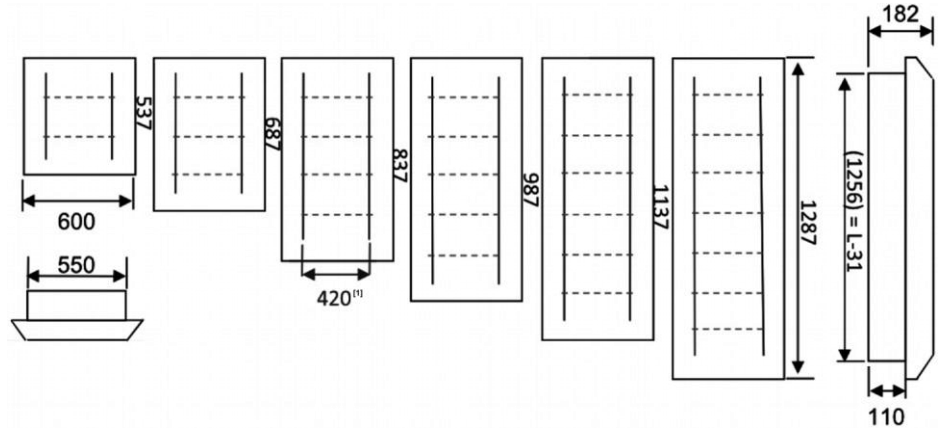
[1] Between uprights

FUX2 AN / MN partly equipped



[1] Between uprights

FUX2GN empty



[1] Between uprights

4.2 Market-specific product ranges

4.2.1 ACN Version

- full equipped with transparent door
- door mounted-in
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Side cable bracket for flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	DIN A4 label sheet with type sticker
FU22ACN	1x	1x KN26E	-	4x	1x	1x	1x	1x	1x
FU32ACN	1x	2x KN22E	1x KN99E	4x	1x	1x	1x	1x	1x
FU42ACN	1x	1x KN22E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	1x
FU52ACN	1x	1x KN22E / 1x KN26E	1x KN99E	6x	1x	1x	1x	1x	1x
FU62ACN	2x	3x KN26E	2x KN99E	6x	1x	1x	1x	1x	1x
FU72ACN	2x	3x KN26E	2x KN99E	6x	1x	1x	1x	1x	1x

Example: FU52ACN

4.2.2 AN Version

- partly equipped without door
- two first rows to complete
- with Quick-Connect terminals Green/Yellow
- flush high-depth version

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Side cable bracket for flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	Paper cover marking strips 24 mod. and holder	Cable strain relief bar
FU22AN	1x	1x KN26E	-	-	1x	1x	1x	1x	-	1x
FU32AN	1x	2x KN22E	1x KN99E	2x	1x	1x	1x	1x	1x	1x
FU42AN	1x	1x KN22E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	2x	1x
FU52AN	1x	1x KN22E / 1x KN26E	1x KN99E	6x	1x	1x	1x	1x	3x	1x
FU62AN	2x	3x KN26E	2x KN99E	8x	1x	1x	1x	1x	4x	1x
FU72AN	2x	3x KN26E	2x KN99E	10x	1x	1x	1x	1x	5x	1x

Example: FU42AN

4.2.3 BN Version

- full equipped with plain door
- door mounted-in
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Side cable bracket for flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	Paper cover marking strips 24 mod. and holder	Drawing map
FU22BN	1x	1x KN10E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	2x	1x
FU32BN	1x	1x KN06E / 2x KN26E	2x KN99E	6x	1x	1x	1x	1x	3x	1x
FU42BN	2x	4x KN18E	3x KN99E	8x	1x	1x	1x	1x	4x	1x
FU52BN	2x	1x KN14E / 3x KN26E	3x KN99E	10x	1x	1x	1x	1x	5x	1x
FU62BN	2x	1x KN06E / 4x KN26E	4x KN99E	12x	1x	1x	1x	1x	6x	1x
FU72BN	2x	6x KN22E	5x KN99E	14x	1x	1x	1x	1x	7x	1x

Example: FU52BN

4.2.4 CN Version

- full equipped with transparent door
- door mounted-in
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Side cable bracket for flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	Paper cover marking strips 24 mod. and holder	Drawing map
FU22CN	1x	1x KN10E / 1x KN26E	1x KN99E	4x	1x	1x	1x	1x	2x	1x
FU32CN	1x	1x KN06E / 2x KN26E	2x KN99E	6x	1x	1x	1x	1x	3x	1x
FU42CN	2x	4x KN18E	3x KN99E	8x	1x	1x	1x	1x	4x	1x
FU52CN	2x	1x KN14E / 3x KN26E	3x KN99E	10x	1x	1x	1x	1x	5x	1x
FU62CN	2x	1x KN06E / 4x KN26E	4x KN99E	12x	1x	1x	1x	1x	6x	1x
FU72CN	2x	6x KN22E	5x KN99E	14x	1x	1x	1x	1x	7x	1x

Example: FU52CN

4.2.5 DN Version

- full equipped without door
- with Quick-Connect terminals Green/Yellow

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Side cable bracket for flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	Paper cover marking strips 24 mod. and holder
FU22DN	1x	1x KN26E	-	4x	1x	1x	1x	1x	2x
FU32DN	1x	2x KN22E	1x KN99E	6x	1x	1x	1x	1x	3x
FU42DN	1x	1x KN22E / 1x KN26E	1x KN99E	8x	1x	1x	1x	1x	4x
FU52DN	1x	1x KN22E / 1x KN26E	1x KN99E	10x	1x	1x	1x	1x	5x
FU62DN	2x	3x KN26E	2x KN99E	12x	1x	1x	1x	1x	6x
FU72DN	2x	3x KN26E	2x KN99E	14x	1x	1x	1x	1x	7x

Example: FU42DN

4.2.6 GN Version

- empty without door
- without Quick-Connect terminals
- flush high-depth version

Equipment standard	PEN QC holder 24 modules wide	Instruction sheet with Quick-Connect explanation	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection
FU22GN	1x	1x	1x	1x
FU32GN	1x	1x	1x	1x
FU42GN	1x	1x	1x	1x
FU52GN	1x	1x	1x	1x
FU62GN	2x	1x	1x	1x
FU72GN	2x	1x	1x	1x

Example: FU42GN

4.2.7 LN Version

- full equipped without door
- without Quick-Connect terminals

Equipment standard	PEN QC holder 24 modules wide	Side cable bracket for flush	Instruction sheet w/o Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	Paper cover marking strips 24 mod. and holder
FU22LN	1x	4x	1x	1x	1x	1x	2x
FU32LN	1x	6x	1x	1x	1x	1x	3x
FU42LN	1x	8x	1x	1x	1x	1x	4x
FU52LN	1x	10x	1x	1x	1x	1x	5x
FU62LN	2x	12x	1x	1x	1x	1x	6x
FU72LN	2x	14x	1x	1x	1x	1x	7x

Example: FU42LN

4.2.8 MN Version

- partly-equipped without door
- two first rows to complete
- with Quick-Connect terminals Green/Yellow & Blue
- flush high-depth version

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Side cable bracket for flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	Paper cover marking strips 24 mod. and holder
FU22MN	1x	1x KN10N / 1x KN10E	-	-	1x	1x	1x	1x	-
FU32MN	1x	1x KN18N / 1x KN18E	-	2x	1x	1x	1x	1x	1x
FU42MN	1x	1x KN22N / 1x KN22E	-	4x	1x	1x	1x	1x	2x
FU52MN	1x	1x KN26N / 1x KN26E	-	6x	1x	1x	1x	1x	3x
FU62MN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	8x	1x	1x	1x	1x	4x
FU72MN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	10x	1x	1x	1x	1x	5x

Example: FU72MN

4.2.9 RN Version

- full-equipped without door
- with Quick-Connect terminals Green/Yellow & Blue

Equipment standard	PEN QC holder 24 modules wide	Quick-Connect modules	Jumpers	Side cable bracket for flush	Instruction sheet with Quick-Connect explanation	Cover slot strip JP002	4 screws kit 4x16 for optional PEN holder or slider fixing	Plaster cardboard protection	Paper cover marking strips 24 mod. and holder
FU22RN	1x	1x KN10N / 1x KN10E	-	4x	1x	1x	1x	1x	2x
FU32RN	1x	1x KN18N / 1x KN18E	-	6x	1x	1x	1x	1x	3x
FU42RN	1x	1x KN22N / 1x KN22E	-	8x	1x	1x	1x	1x	4x
FU52RN	1x	1x KN26N / 1x KN26E	-	10x	1x	1x	1x	1x	5x
FU62RN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	12x	1x	1x	1x	1x	6x
FU72RN	2x	2x KN18N / 2x KN18E	1x KN99N / 1x KN99E	14x	1x	1x	1x	1x	7x

Example: FU42RN

5 Doors for flush and surface enclosures

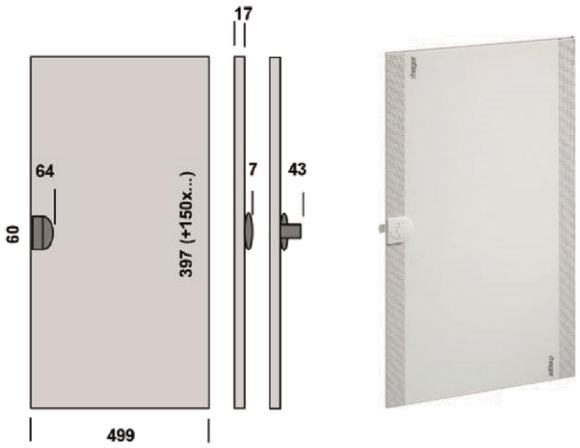
Chapter index

External dimensions 36
Door mounting into enclosure frames 38
Door hinges 39

5.1 External dimensions

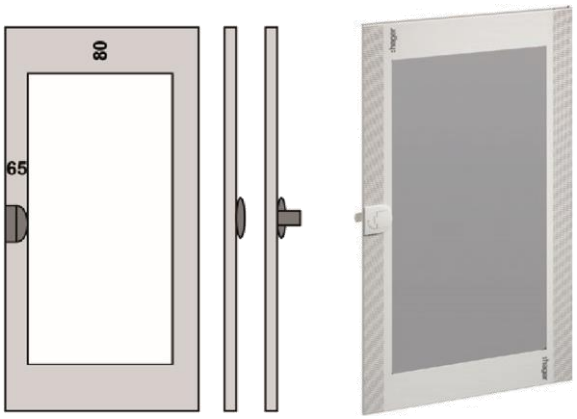
PN Version - plain door

Door material	Full steel door 1.2 mm thick
FD22PN	1x
FD32PN	1x
FD42PN	1x
FD52PN	1x
FD62PN	1x
FD72PN	1x



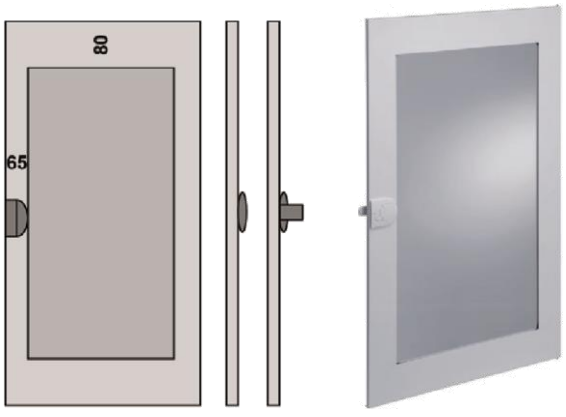
TN Version - transparent door

Door material	Tempered 3 mm glass
FD22TN	1x
FD32TN	1x
FD42TN	1x
FD52TN	1x
FD62TN	1x
FD72TN	1x

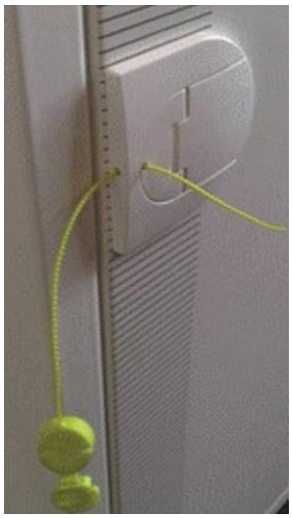


SN Version - mirror door

Door material	Tempered 3 mm glass with mirror surface
FD22SN	1x
FD32SN	1x
FD42SN	1x
FD52SN	1x
FD62SN	1x
FD72SN	1x



- Standard closing system can be sealed with max Ø 1,5 mm wire



- Standard closing system is available as spare part with reference **FD00S0**

5.2 Door mounting into enclosure frames

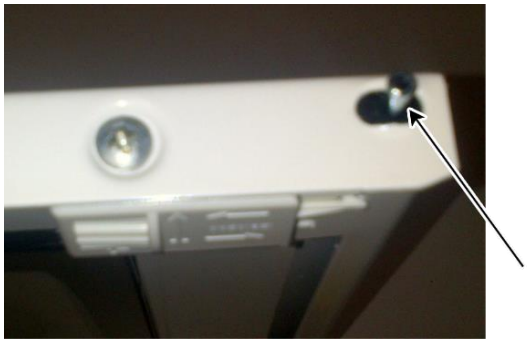
In New VegaD flush enclosures, customer doesn't have to punch out metal openings for door closing latch, as they are already punched.

Also in New VegaD surface enclosures, customer doesn't have to punch out plastic openings for door closing latch, as they are already extruded.

5.3 Door hinges

Each door is composed of 1 fix hinge and 1 removable one.

Both hinge positions can be adjusted up to ~2 mm by hand by turning small wheel (arrow), so that door fits perfectly into frame.



Hinges have a small gasket on metal pin, to prevent water to enter into enclosure and thus preserve IPx1.

6 Accessories

Chapter index

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Single and spare parts	52

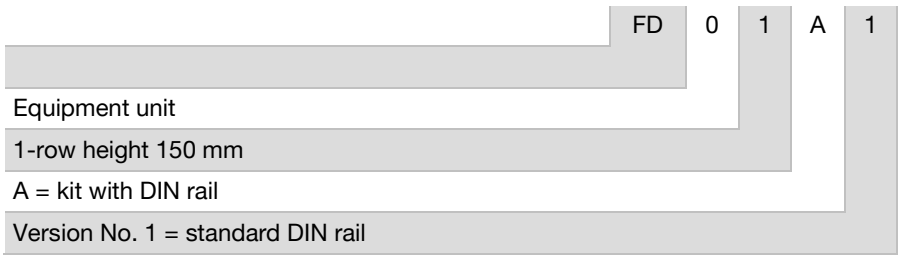
6.1 Naming rules

Equipment units, accessories and spare parts for New VegaD system have been named according these rules:

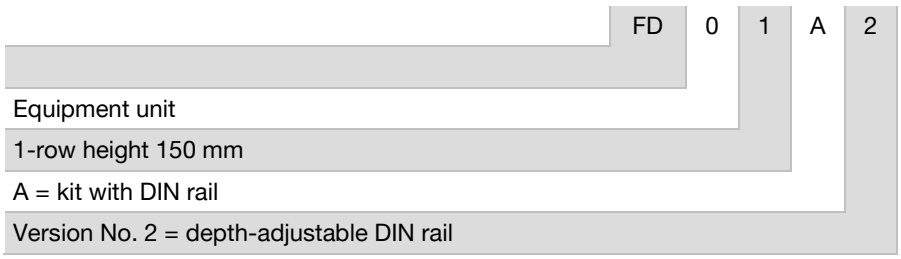
first 2 letters:	always FD
first number:	0 for equipment units, accessories and spare parts (New VegaD system only)
second number:	0 for simple accessories and spare parts
	1 for equipment units 1-row height 150 mm
	2 for equipment units 2-rows height 300 mm
	3 for equipment units 3-rows height 450 mm
third letter:	Product type
third number:	Product version

Examples

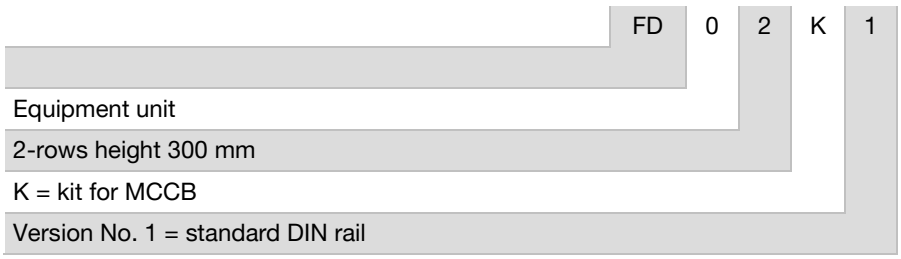
FD01A1:



FD01A2:



FD02K1:



6.2 Equipment units

- Equipment units are compatible with surface and flush high-depth versions.
- Equipment units are **not** compatible with flush low-depth versions.

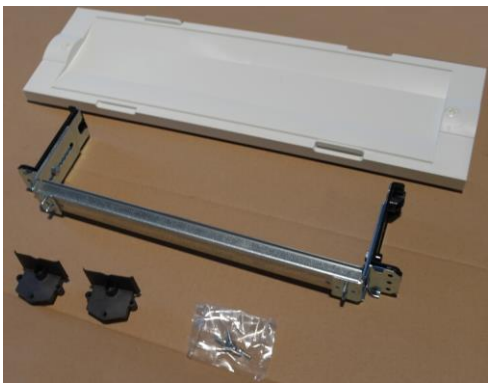
6.2.1 FD01.. = Equipment units, height 150 mm

FD01A1: Kit for 1 distribution DIN rail (430 x 150 x 147 mm)

- with 1x label holder+paperstrip 24 modules, 4 mounting screws and 2 cable brackets for surface delivered-by
- with 150 mm slotted cover 24 modules.

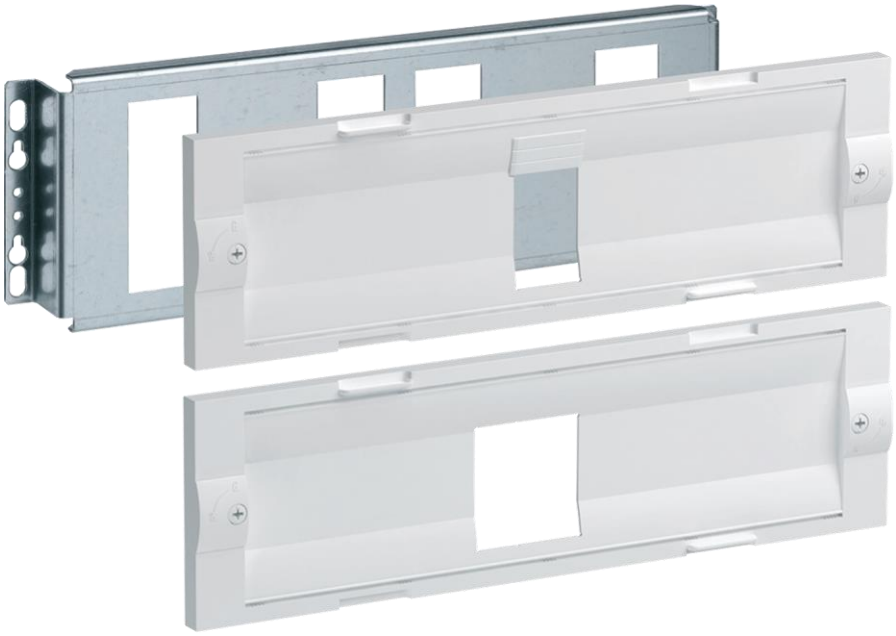
FD01A2: Kit for 1 depth-adjustable DIN rail (430 x 150 x 147 mm)

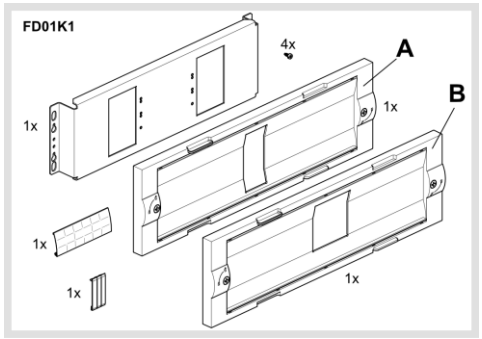
- with 4 mounting screws, 20 module DIN rail 370 mm long and 2 rail insulating parts delivered-by
- with 150 mm plain cover

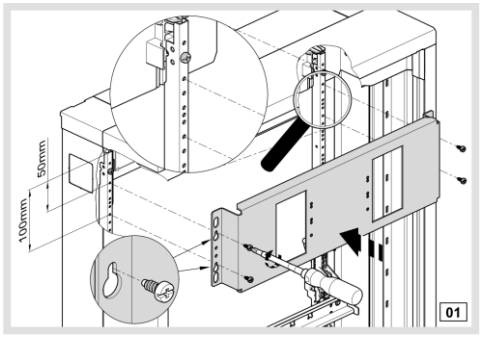


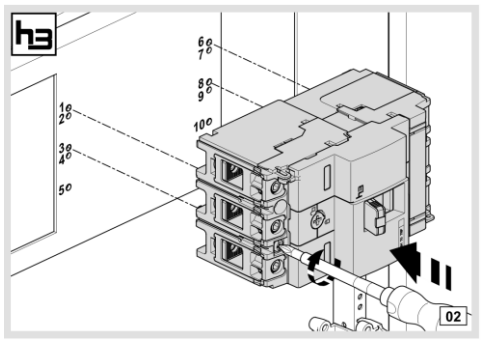
FD01K1: Kit for 160 A MCCB horizontal 3 and 4 poles (430 x 150 x 147 mm)

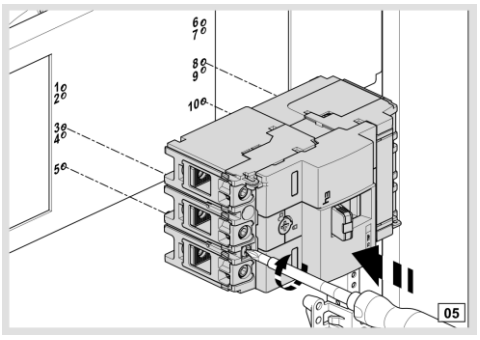
- with 1x label holder+paperstrip 24 mod., 1 blanking strip 1,5 module (27 mm) and 4 mounting screws delivered-by
- MCCB H3 or H3+ 3 or 4 poles 160 A to screw-in horizontally
- label holder & paperstrip 24 mod. to cut-out to wished size before snapping-in on cover slot
- **USP: kit enables smallest MCCB mounting volume on the market**
- with a second cover for mounting of MCCB H3+ P160

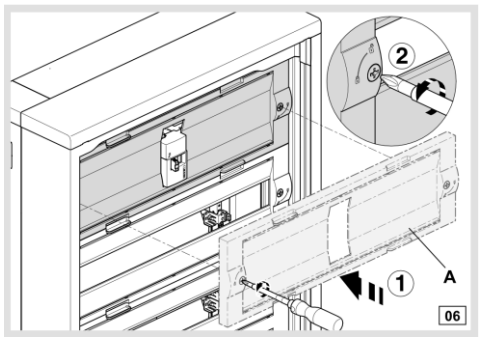


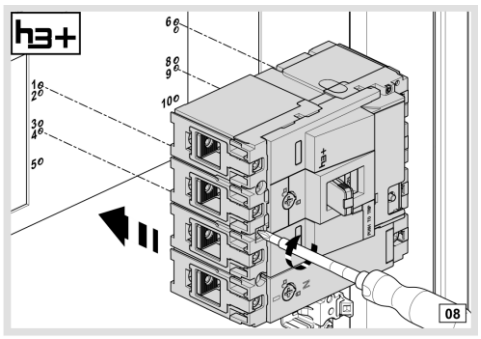


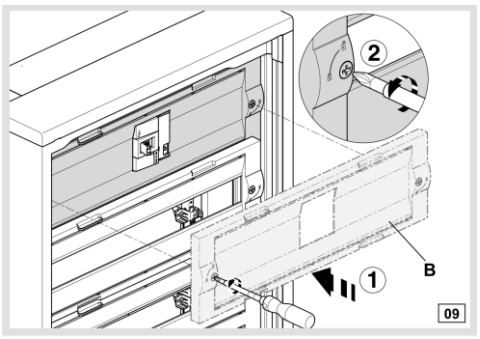










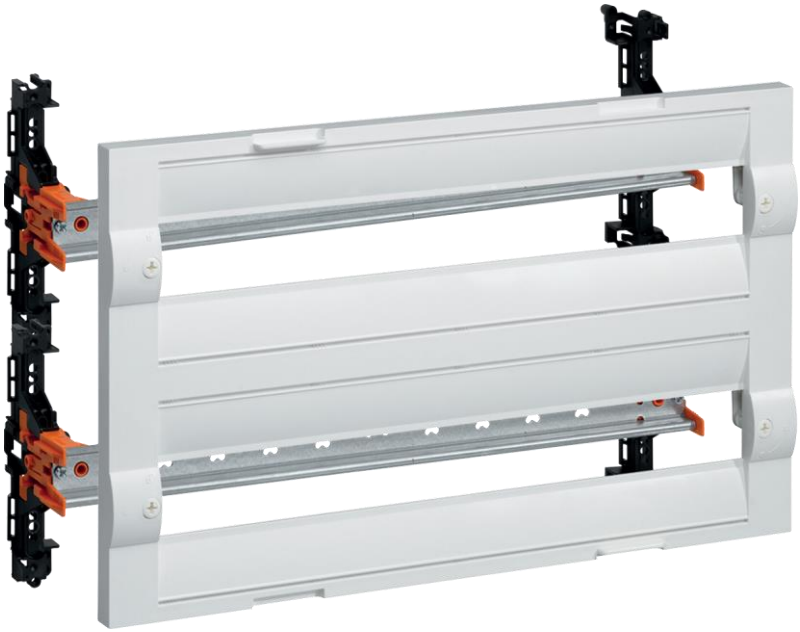


MCCB fixing on metal plate with M4 screws delivered-by

6.2.2 FD02.. = Equipment units, height 300 mm

FD02A1: Kit with 2 distribution DIN rails (430 x 300 x 147 mm)

- with 2x label holder+paperstrip 24 mod., 4 mounting screws and 4 cable brackets surface delivered-by.
- - with 300 mm 2x slotted cover 24 mod.

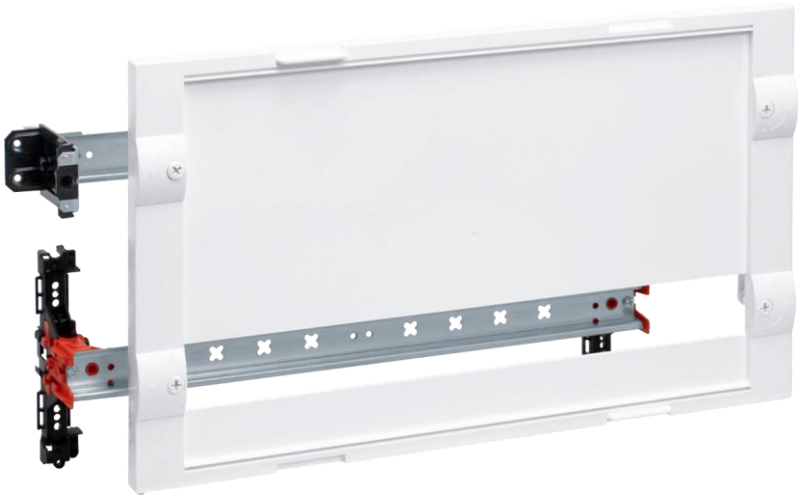


FD02A2: Kit with 2 depth-adjustable DIN rails (430 x 300 x 147 mm)

- with 8 mounting screws and 4 DIN rail insulating parts delivered-by
- with 300 mm plain cover

FD02A3: Kit with 1 depth-adjustable DIN rail and 1 standard DIN rail (430 x 300 x 147 mm)

- with 1x label holder+paperstrip 24 mod., 2 cable brackets surface, 8 mounting screws and 2 DIN rail insulating parts delivered-by
- with 300 mm 1x slotted cover 24 mod.

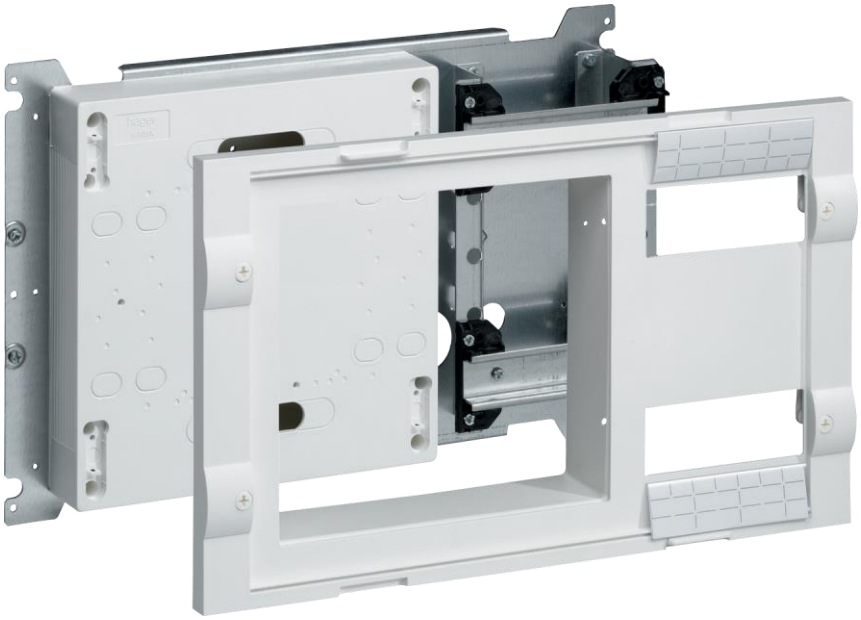


FD02C2: Kit with depth-adjustable perforated plate (430 x 300 x 147 mm)

- with 4 DIN rail insulating parts and 12 mounting screws delivered-by
- with Ø 3,2 perforated plate (370 x 290 x 1,2 mm)

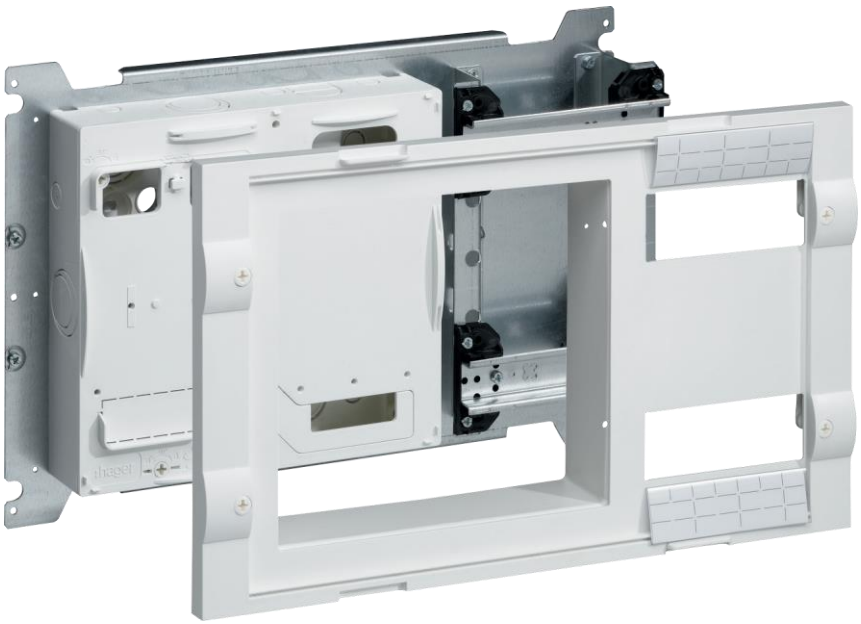
FD02F1: Kit with french DB plate (for Disjoncteur de Branchement) (430 x 300 x 147 mm)

- with 2x label holder+paperstrip 7 mod. premounted, 4 premounted screws delivered-by
- with removable 7 mod. DIN rail insulation parts
- with 250 x 250 x 40 mm French Gamma platine premounted



FD02F2: Kit with french DB + linky meter plate (430 x 300 x 147 mm)

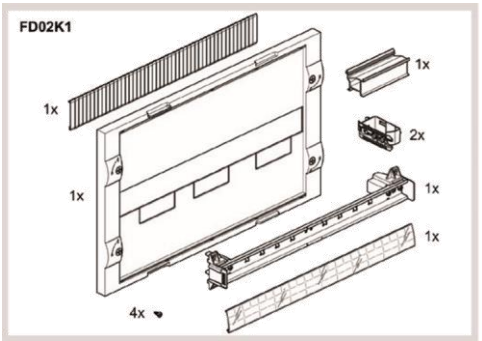
- with 2x label holder+paperstrip 7 mod. and 4 premounted screws delivered-by
- with removable 7 mod. DIN rail insulation parts
- with 250 x 225 x 45 mm French Gamma platine premounted

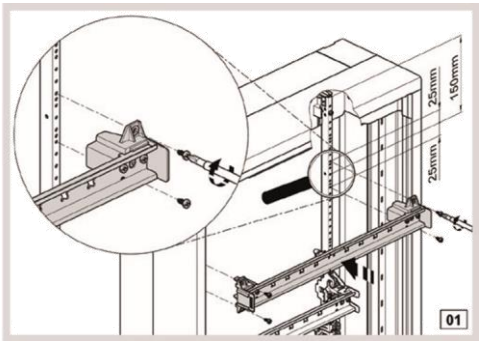


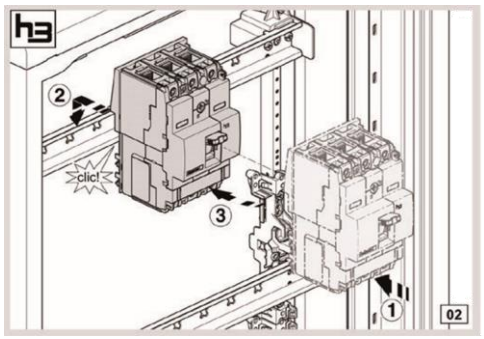
FD02K1: Kit for 160 A MCCB vertical 3 and 4 poles (430 x 300 x 147 mm)

- with 1x label holder+paperstrip 24 mod., 1 plastic elevation part for modular devices, 1 blanking strip 12 mod., 2 cable brackets surface and 4 mounting screws delivered-by
- MCCB H3 3 or 4 poles 160 A to snap-in on DIN rail (MCCB not included)
- Kit also compatible with MCCB H3+ P160 3 or 4 poles

NB: Cable brackets for FD…N can be also mounted-in on kit in flush high depth enclosure



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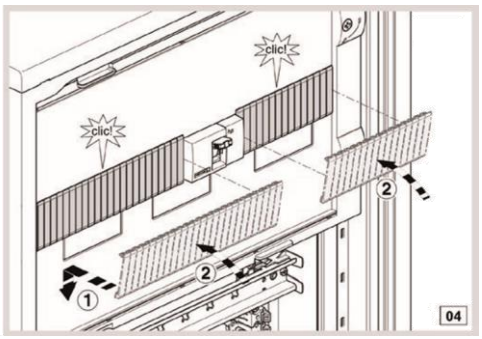
clic!
02


clic!
clic!
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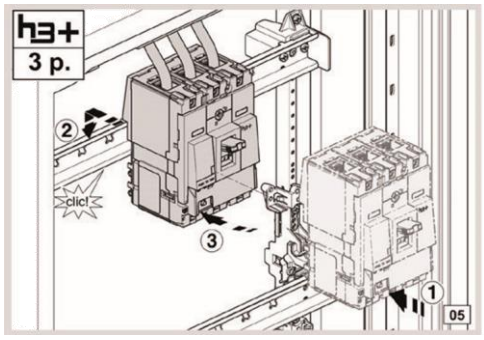
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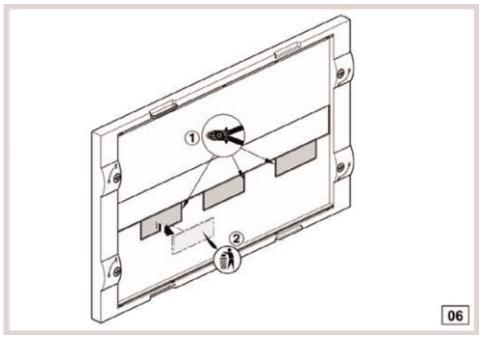
3 p.
clic!
05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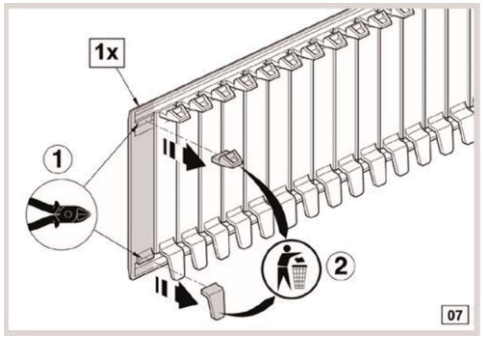
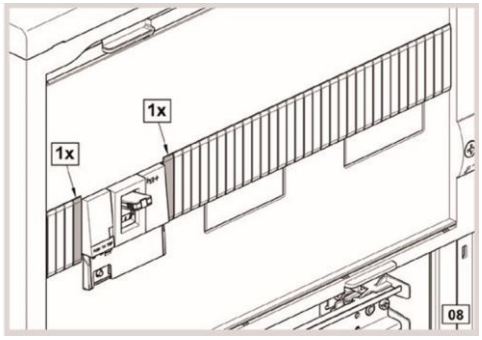

1x
07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1x
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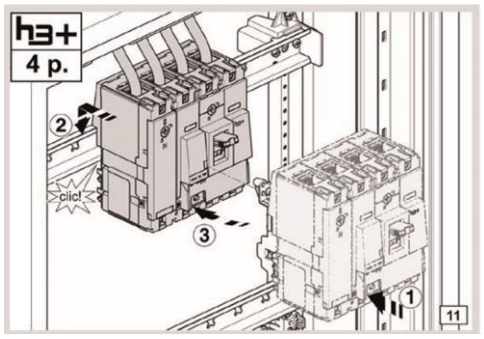
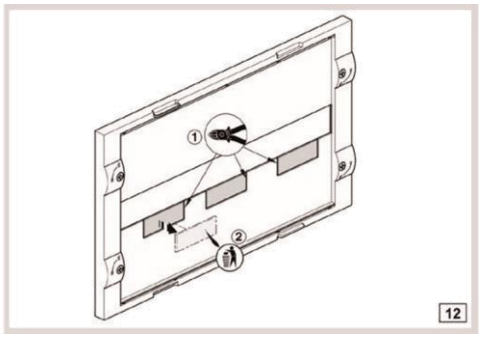

h3+
4 p.
clic!
11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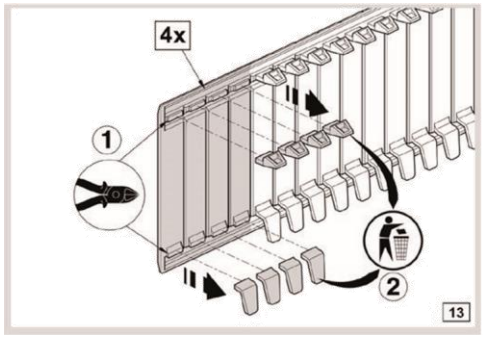
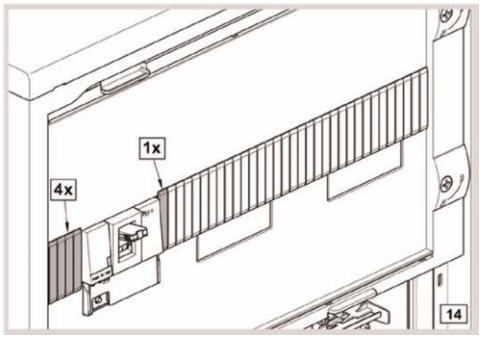
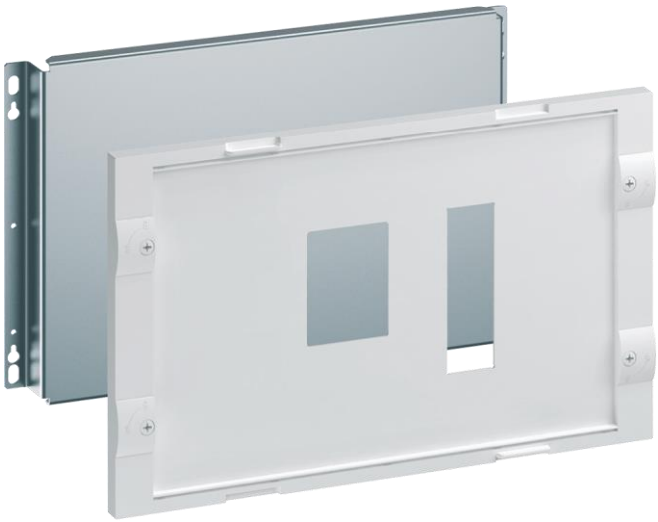

4x
13


1x
4x
14

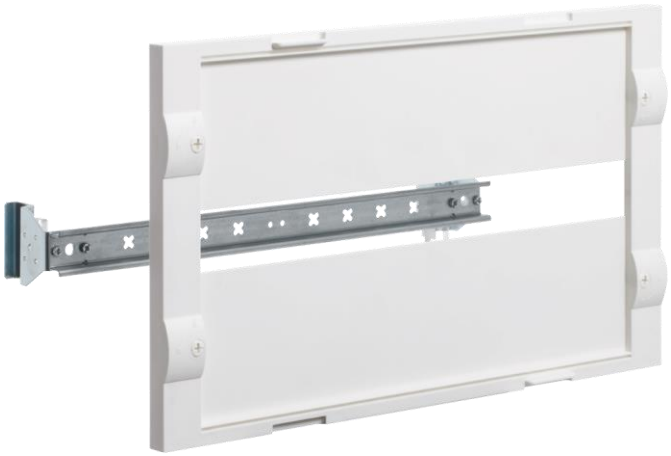
FD02K2: Kit for 250A MCCB (In 160 A) vertical 3 and 4 poles (430 x 300 x 147 mm)

- with 1x label holder+paperstrip 7 mod. delivered-by
- MCCB H3+ P160 3 or 4 poles 250 A with add-on bloc to screw-in horizontally



FD02V2: Kit for motorized change over switch 160 A (430 x 300 x 147 mm)

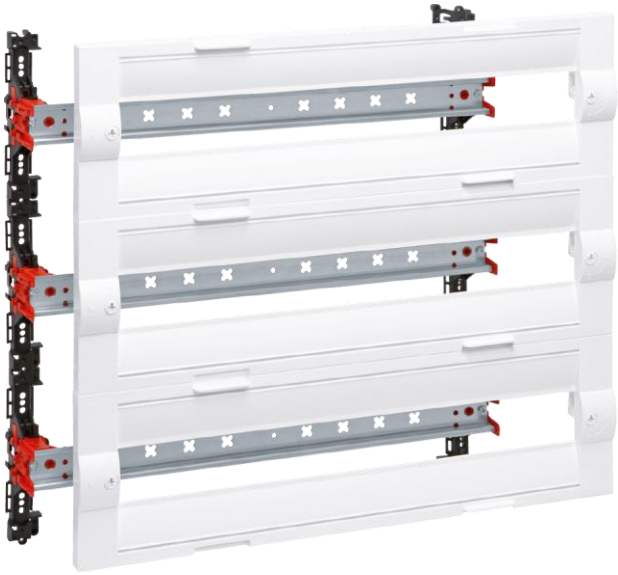
- with 1x label holder+paperstrip 24 mod., 1 blanking strip 24 mod., 1 positioning aid metallic bar and 4 mounting screws delivered-by
- Kit can be mounted in New VegaD surface FDxxxN and flush high-depth FUxxAN -GN -MN enclosures for mounting modular switches HIC4..A until 160 A.



6.2.3 FD03.. = Equipment units, height 450 mm

FD03A1: Kit with 3 distribution DIN rails (430 x 450 x 147 mm)

- with 3x label holder+paperstrip 24 mod., 12 mounting screws and 6 cable brackets surface delivered-by
- with 3x 150 mm slotted cover 24 mod.



FD03Z1: Kit for meter + main switch three-phase (430 x 450 x 147 mm)

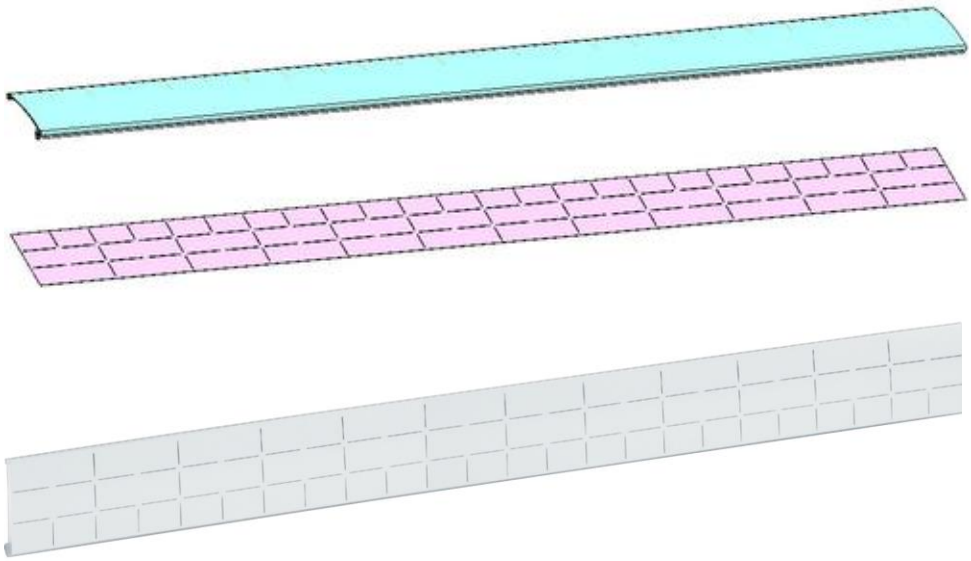
- with French platine kit Tarif bleu triphasé fixed on mounting plate, special cover, 1x label holder+paperstrip (Univers) and 4 pre-mounted screws

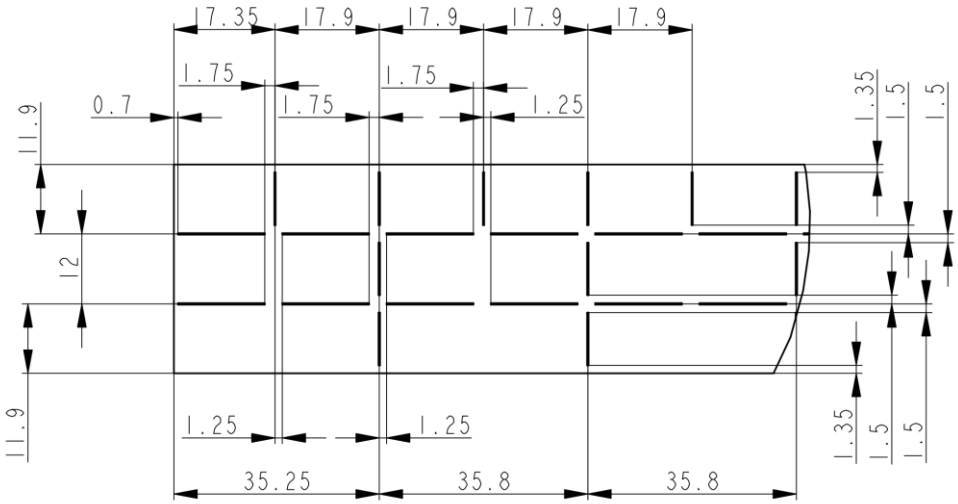
6.3 Single and spare parts

6.3.1 FD00A… = Standard Accessories

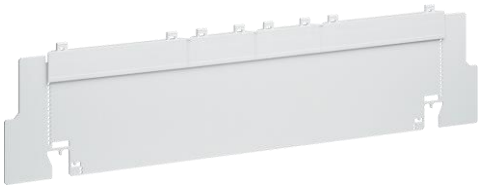
FD00A1: 10x label holder+paperstrip 24 mod.

- all 24 mod. slotted covers in enclosures and equipment kits are already delivered with 1x label holder+paperstrip 24 mod. to snap-in
- Reference to use as spare part or to double labels on a row (top and bottom, for example for Tebis with 2 outputs)
- paper length 428 mm
- 1-sided printed, other side blank



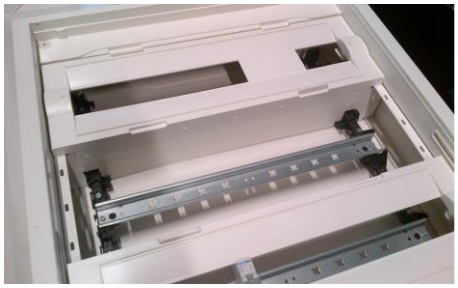


FD00A3: horizontal partition plate (surface only) 24 mod.



FD00A4: horizontal partition plate (flush high-depth only) 24 mod.

FD00A5: horizontal partition plate (flush low-depth only) 24 mod.

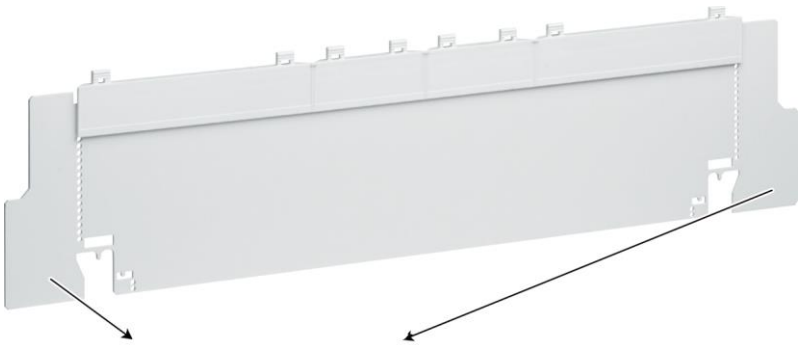


Partition IP2X to mount in 3 different positions:

Pos. 1: direct on uprights (no cut-out, direct use)

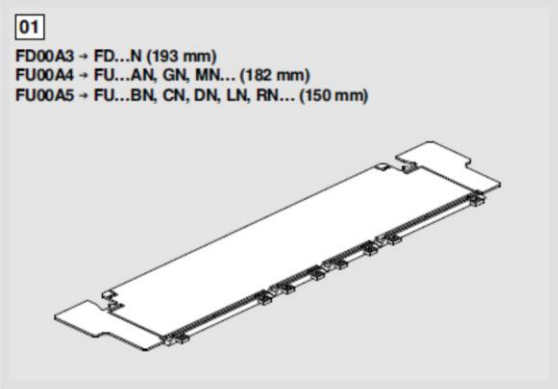
Pos. 2: between field with uprights and field modular (1 side to cut out)

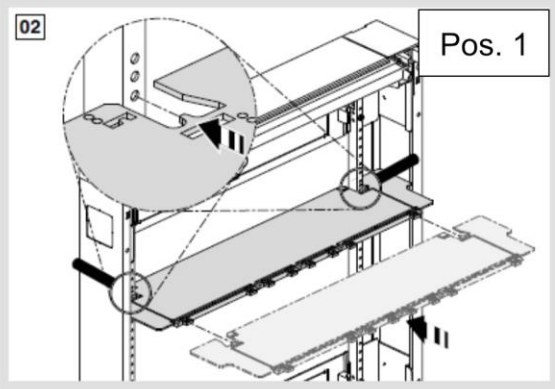
Pos. 3: between 2 modular fields (2 sides to cut out)

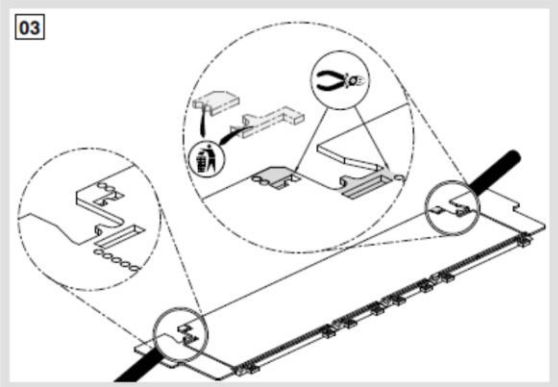


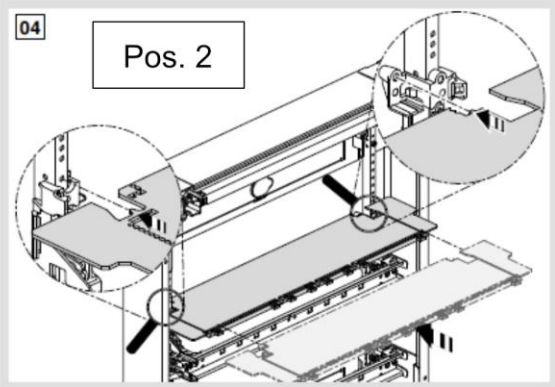
In all positions, it is possible to cut out side areas for vertical trunking access (surface only) or vertical cabling sideways.

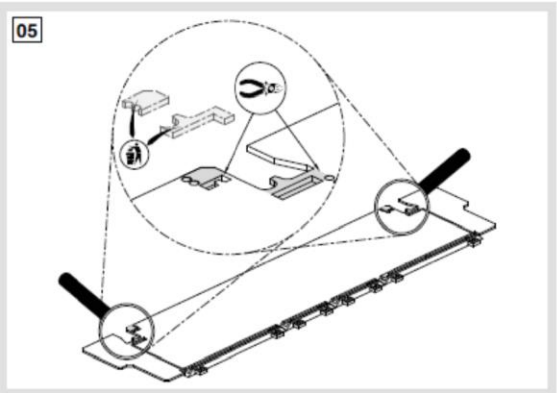
See mounting instruction below:

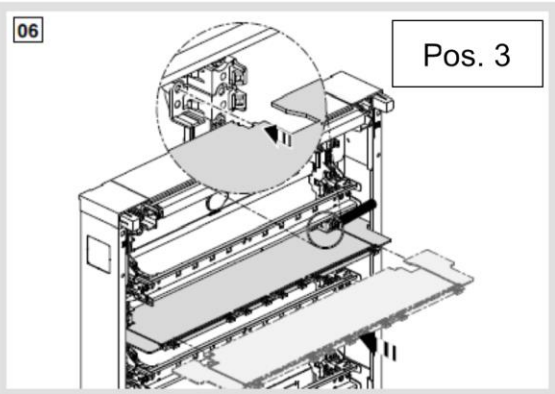


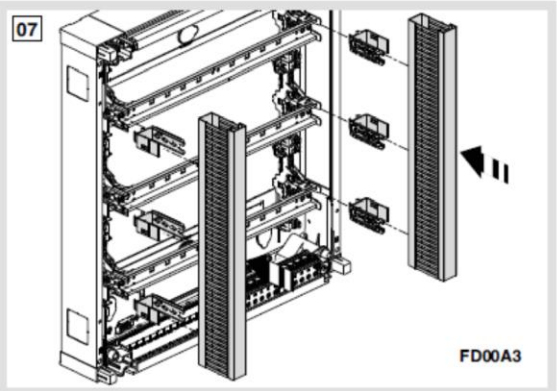


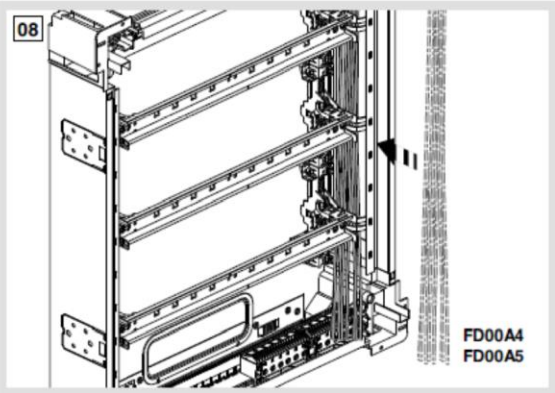


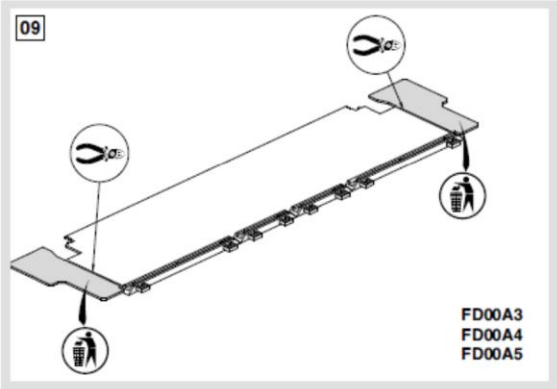


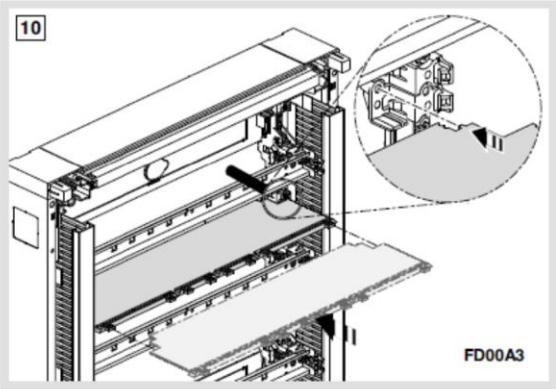









09
FD00A3
FD00A4
FD00A5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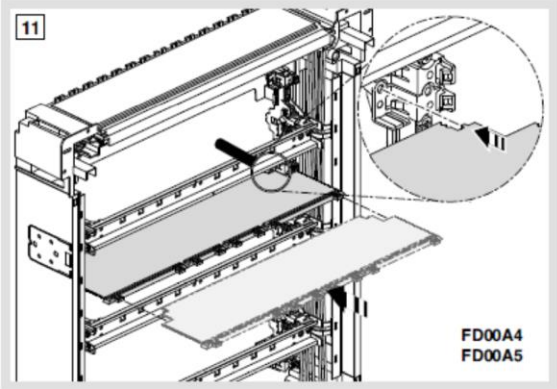
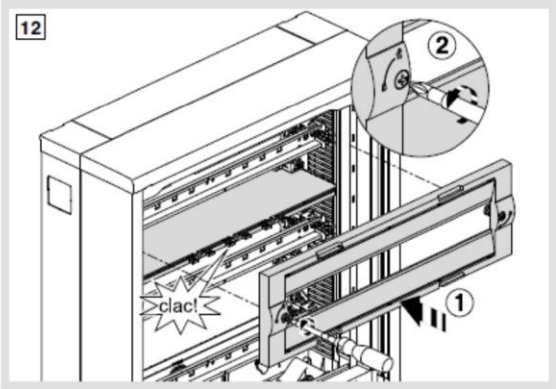

11
FD00A4
FD00A5


12
2
clac!
1

6.3.2 FD00B… = Side Brackets for vertical cables

FD00B1: 10x side Brackets for vertical cables for surface versions

- all equipped surface enclosures and kits with 24 mod. DIN rails are already delivered with 2 brackets per DIN rail
- Reference to use as spare part or to complete first two-rows in AN or MN versions or to equip GN versions

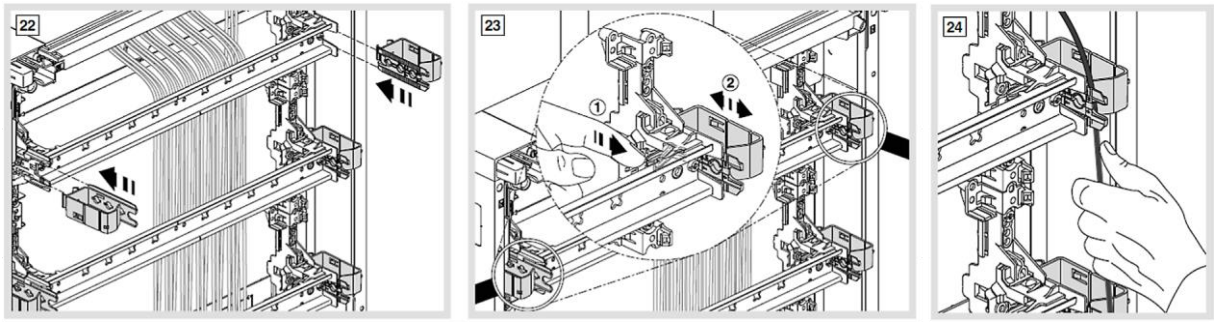
USP: Part can be used in 3 different positions through cut-outs at 2 different points (see arrows):

Pos. 1:
from top (without cut-out)

Pos. 2:
from top (with cut-out) for trunking fixation

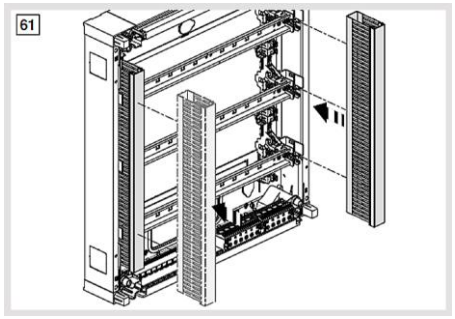
Pos. 3:
turned 180° (with or without cut-out)

Pos. 1:



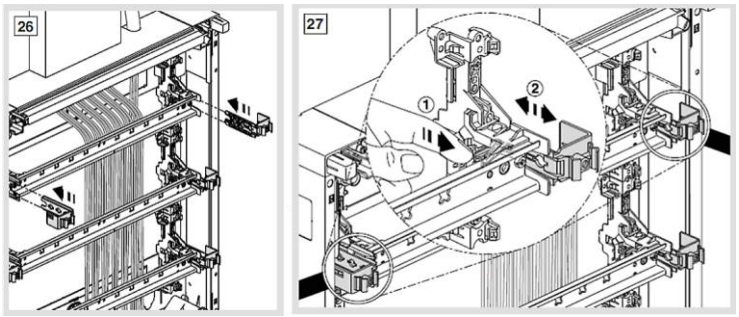
Part can be snapped-in into 3 different depths (20 mm raster) and loosen though finger pressure under orange DIN rail holder.

Pos. 2:

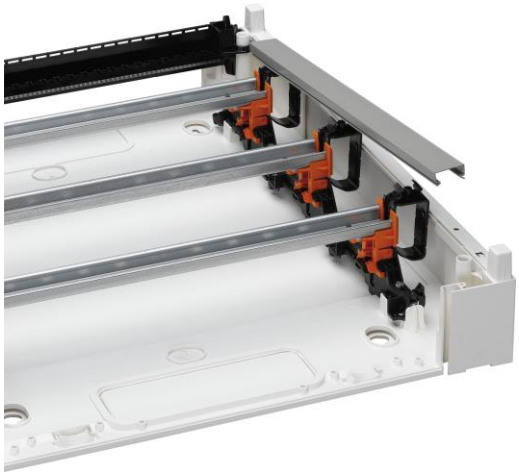


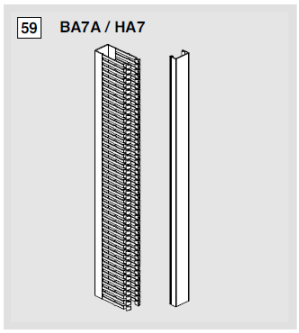
Part can be snapped-in into 3 different depths (20 mm raster) and loosen though finger pressure under orange DIN rail holder. Tehalit trunkings BA7A / HA7 can be snapped on part cutted-out like this. Through 20 mm raster, height of vertical trunking cover can be adapted to horizontal trunking cover height (as Tehalit trunkings are 60, 80 or 100 mm high).

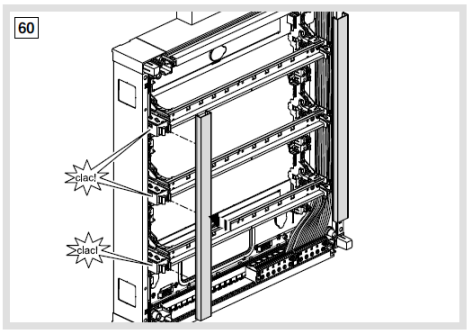
Pos. 3:



Part can be snapped-in into 3 different depths (20 mm raster) and loosen though finger pressure under orange DIN rail holder. Cover 30 mm width from Tehalit trunking BA7A / HA7 can be snapped on part mounted in this 180° turned position. Through 20 mm raster, height of vertical cover can be adapted to horizontal trunking cover height (as Tehalit trunkings are 60, 80 or 100 mm high).

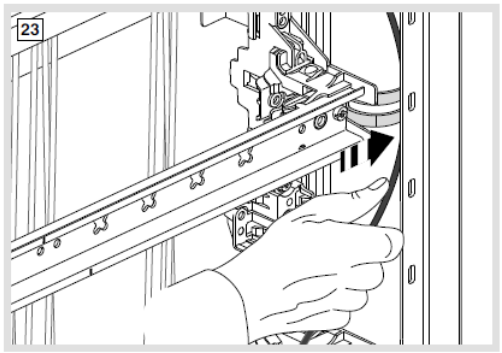




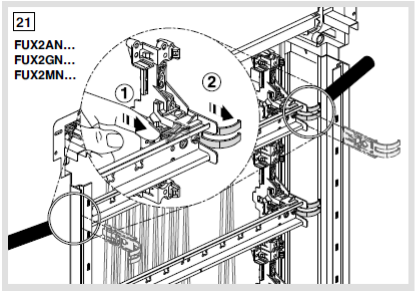


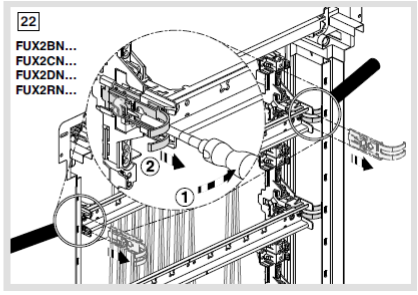
FD00B2: 10x side Brackets for vertical cables for flush versions

- all flush enclosures are already delivered with 2 brackets per DIN rail
- Reference to use as spare part or to complete first two-rows in AN or MN versions or to equip GN versions



- Part can be snapped-in into 1 single position and loosen:
  - through pressure from top with screwdriver on plastic lever (flush low depth)
  - through finger pressure under orange DIN rail holder (flush high depth)





6.3.3 FD00C… = Covers

Covers can be mounted on all surface and flush enclosures

FD00C1: 300 mm 2x slotted cover 24 mod.

- with 2x label holder+paperstrip 24 mod. delivered-by

FD00C2: 300 mm plain cover 24 mod.

- Plain area in the middle: 430 x 268 mm
- 2 slots top/bottom enable fixing of marking strips FD00A1

FD00C3: 300 mm 1x slotted cover 24 mod.

- with 1x label holder+paperstrip 24 mod. delivered-by
- 2 slots top/bottom enable fixing of marking strips FD00A1

FD00C4: 150 mm 1x slotted cover 24 mod.

- with 1x label holder+paperstrip 24 mod. delivered-by
- 2 slots top/bottom enable fixing of marking strips FD00A1

FD00C5: 150 mm plain cover 24 mod.

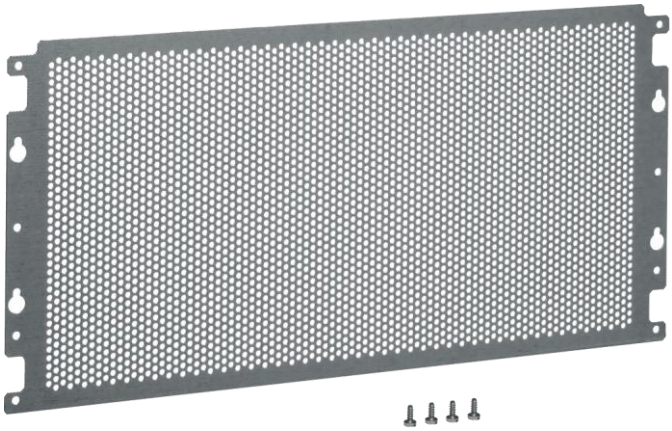
- 2 slots top/bottom enable fixing of marking strips FD00A1

6.3.4 FD00M… = Mounting plates

Mounting plates can be screwed on all surface and flush enclosures, directly on vertical uprights.

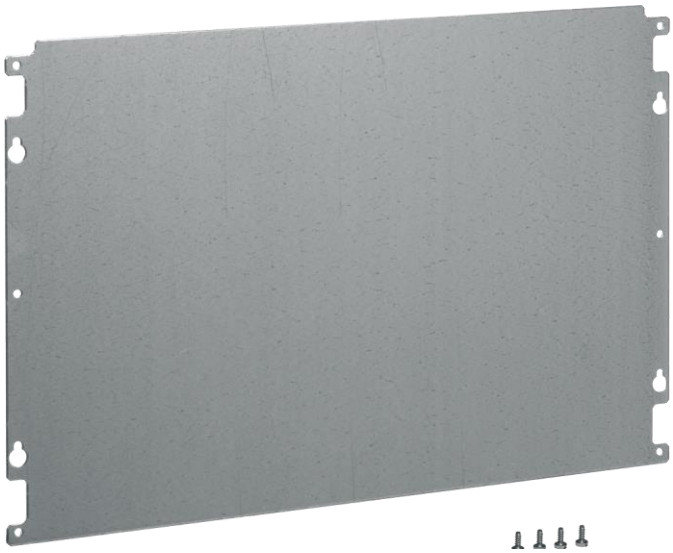
FD00M1: 215 mm Ø 3,2 perforated plate (434 x 215 x 1,2 mm)

- with 2x10 screws kit for multimedia (10x13 mm & 10x22 mm deep) and 6 mounting screws delivered-by
- 2 plates can be mounted on top of each other within a 3-row empty area (450 mm heigth) with 10 mm spacing for cable through-out in between
- Plate compatible with device holder **VZ02MM** and fixing strips **VZ340** (not included)



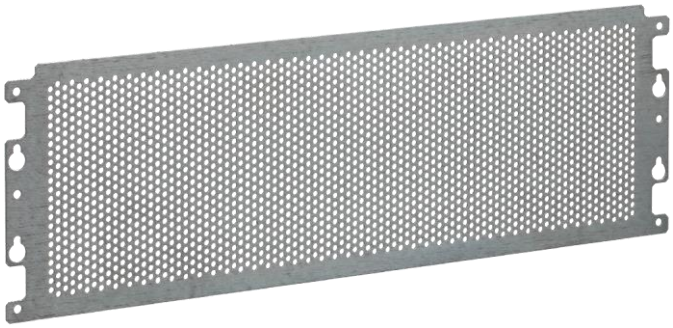
FD00M2: 290 mm plain plate (434 x 290 x 2 mm)

- with 6 mounting screws delivered-by
- plates can be mounted on top of each other (1 each 2 rows empty area) (300 mm heigth) with 10 mm spacing for cable through-out in between



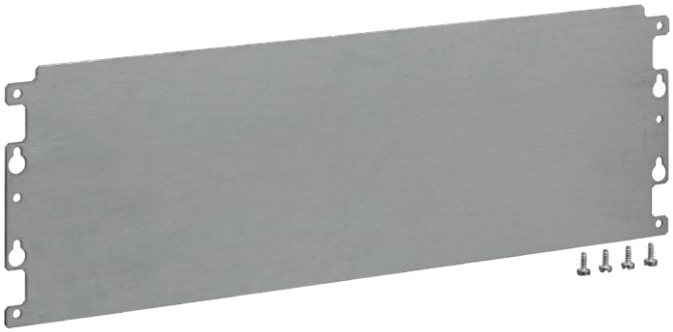
FD00M3: 140 mm Ø 3,2 perforated plate (434 x 140 x 1,2 mm)

- with 2x5 screws kit for multimedia (5x13 mm & 5x22 mm deep) and 4 mounting screws delivered-by
- plates can be mounted on top of each other (1 each 1 row empty area) (150 mm heigth) with 10 mm spacing for cable through-out in between
- Plate compatible with device holder **VZ02MM** and fixing strips **VZ340** (not included)



FD00M4: 140 mm plain plate (434 x 140 x 2 mm)

- with 4 mounting screws delivered-by
- plates can be mounted on top of each other (1 each 1 row empty area) (150 mm heigth) with 10 mm spacing for cable through-out in between



6.3.5 FD00G… = Gallery Adapter for VegaD surface versions (FD…)

FD00E1 (Adapter for Systo range) has been replaced by FD00G1 (Adapter for Gallery range), as Systo range has been phased out.

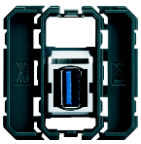
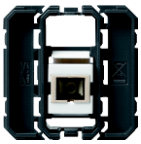
FD00G1: Adapter for Gallery range

Gallery compatibility

FD00G1 is compatible with following wiring accessories (non-exhaustive list):

16 A socket outlet French 16 A		16 A socket outlet Schuko 16 A	Cable entry		Blanking plug	Warning light red/green
WXF100	WXD100B	WXF160B	WXF155	WXD155B [1]	2 x WXF688B	WXF601
Other types available: WXF102 (other cover), WXF105 (other cover)	Other types available: WXA699, WXD101B, WXD103B, WXD104R		2 x WXF687B		WXF689B	Other LED colours and types availa-ble: WXF602, WXF603

[1] not compatible with WS179 and 91… covers

RJ45		HDMI		USB		Optical Fiber	
							
WXF226	WXD202B	WXF632	WXD744T	WXF644	WXD202B	WXF645	WXD202B
		Other types available: WXF633				Other types available: WXF646	
2 x WXF226	2 x WXD201B			2 x WXF644	2 x WXD201B		
Other grades and types available: WXF202, WXF221, WXF222, WXF223, WXF224, WXF225, WXF226, WXF228, WXF230, WXF231, WXF232, WXF233 (…). Other covers available: WXD205B, WXF206B, WXF230B …				WXF642	WXD202B		

Switches (with push-button function)		Switch with key	Other switches	
WXF003	WXD000B [1]	WXF615B	WXF010	WXD000B [1]
2 x WXF003	2 x WXD010B [1]		2 x WXF010	2 x WXD010B [1]
			WXF008	WXD004B [1] WXD013B [1]
			WXF005 [1] WXF024 [1]	WXD005B [1]
			WXF023	WXD001B [1]
			2 x WXF023	2 x WXD011B [1]

[1] not compatible with WS179 and 91… covers

Note: In this overview table, the last reference letter **B** stands for pure white.
Other colours are also available:
D Oyster white, **T** Titane, **N** Black, **E** Orange, **R** Red, **V** Green.

All Gallery products 47 mm wide are not all compatible with Gallery adapter. Compatibility check on demand.

Example: push buttons WXF610 and 611 are not compatible with FD00G1 because the wiring interferes with the plastic walls of the adapter.

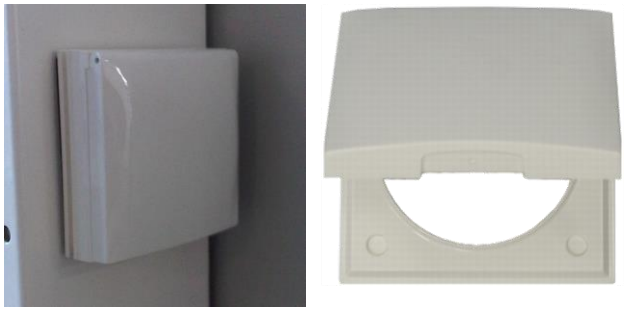
Protection cover compatibility

FD00G1 is also compatible with IP41 protection cover **WS179** and other 91… refs from Berker, that can be snapped-in:

Protective cover

	Other colours and types available: 918282501, 918282505, 918282507, 918282509, 918282510, 918282524, 918282578 and 919882502, 919882505, 919882506
WS179	

IP41 cover for Berker socket to snap on VegaD socket adapter (available in 10 colours)



Hager ref WS179 in RAL 9010 mounted on FD00G1

Standard cover

Colour	Berker reference	Hager reference
polar white glossy	918282509	WS179
black glossy	918282510	
stainless steel coated satin	918282524	
brown matt	918282501	
anthracite matt	918282505	
grey glossy	918282507	
chrome-plated matt	918282578	

918282501 (brown)

Cover with label stripe

Colour	Berker reference
polar white glossy	919882502
anthracite matt	919882505
grey glossy	919882506

919882502 (white)

WXF100/WXD100B+WS179

WXF615B+WS179

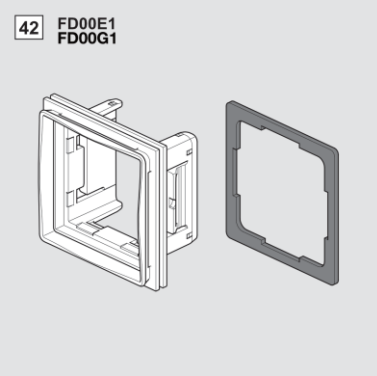
WXF100/WXD100B+9 1828 25 07

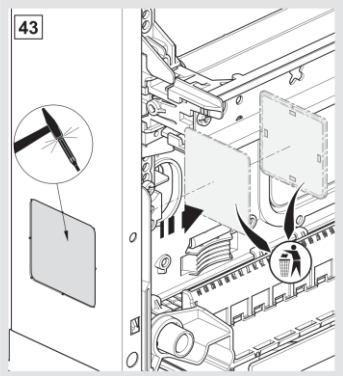
WXF100/WXD100B + 9 1828 25 78

All Gallery products 47mm wide are not all compatible with IP41 cover (see note [1] in tables on page 63 and following).

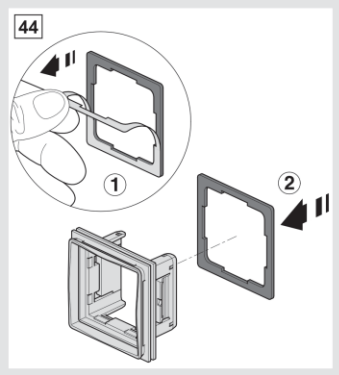
Example of non-compatibility: cable entry set WXF155+WXD155B is too big for WS179 and other 91… covers from Berker

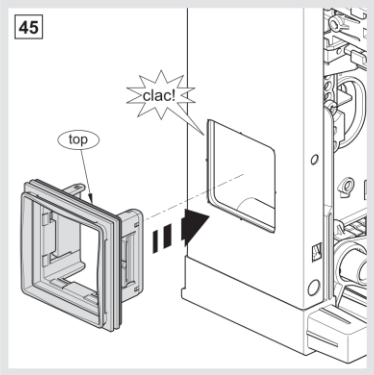
Mounting instruction

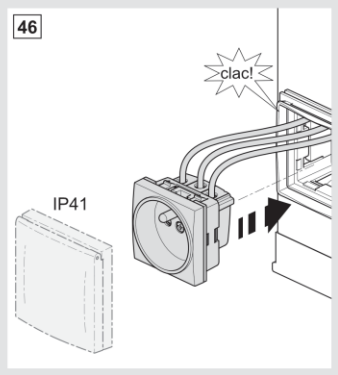




1. Perforate side opening side with hammer [43]

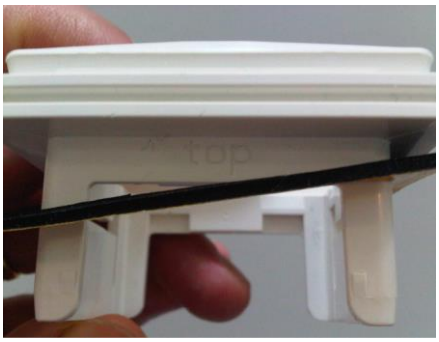
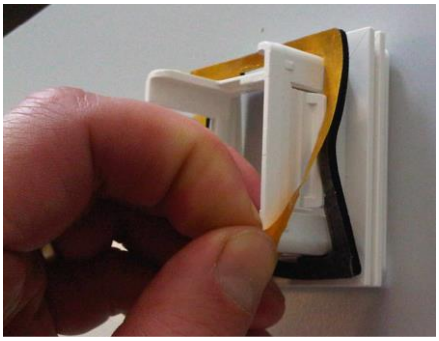


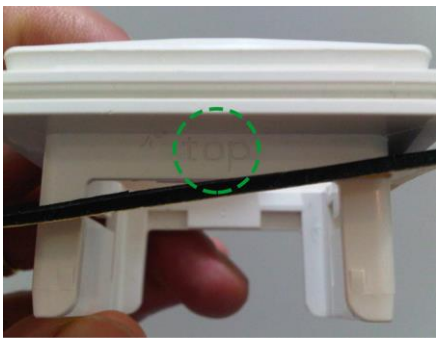




2. Stick gasket on adapter [44]
3. Snap adapter into enclosure with top inscription on top [45]
4. Snap socket outlet with wires into adapter [46]

Socket mounting:

Step	Action
1	Put gasket on adapter 
2	Release protection foil 

Step	Action
3	Take care of **top** side for socket adaptions and snap adapter into enclosure 
4	Fix wires to socket
5	Pass wires into side opening
6	Clip socket into adapter

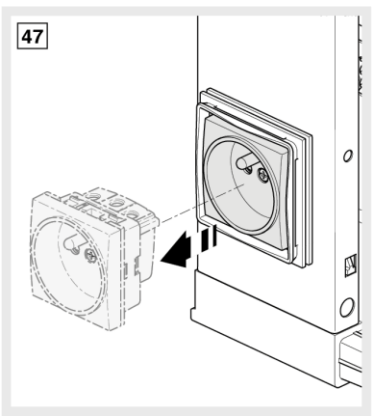
⇨ See mounting instruction

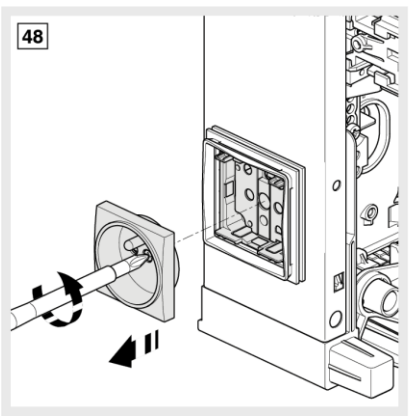
Socket dismounting:

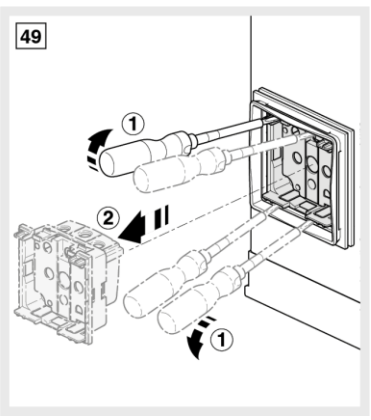
Step	Action
1	Unscrew socket front cover
2	4 x unsnap with small flat screwdriver socket snaps (from outside or inside) and push socket out of enclosure
3	2 x unsnap adapter snaps with heavy finger pressure top/bottom or left/right hand side

⇨See mounting instruction

To dismount a socket outlet, it is necessary to unscrew front plate and unsnap back plate with small flat screwdriver while pushing out back plate from the inside with the second hand.



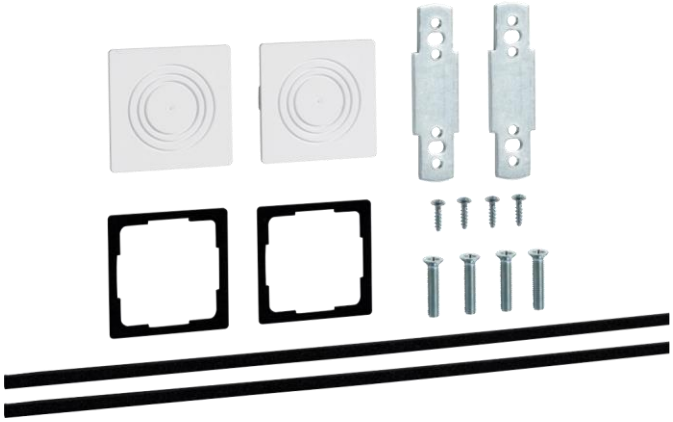




6.3.6 FD00F… = Fixation kit

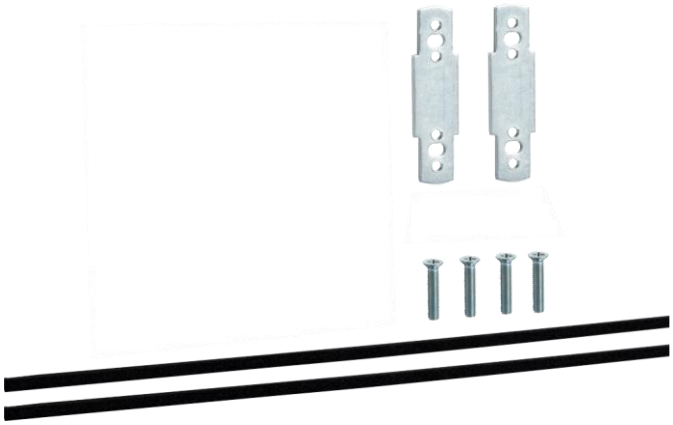
FD00F1: Fixation kit (for surface versions only)

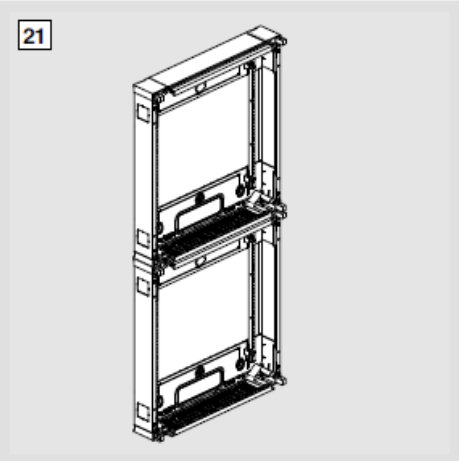
- to associate 2 surface enclosures vertically
- to associate 2 surface enclosures horizontally

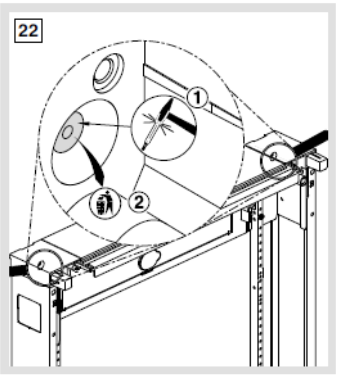


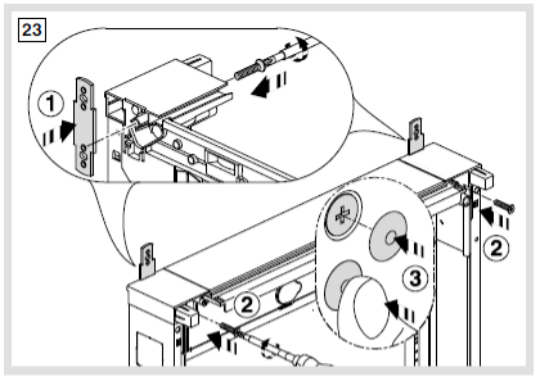
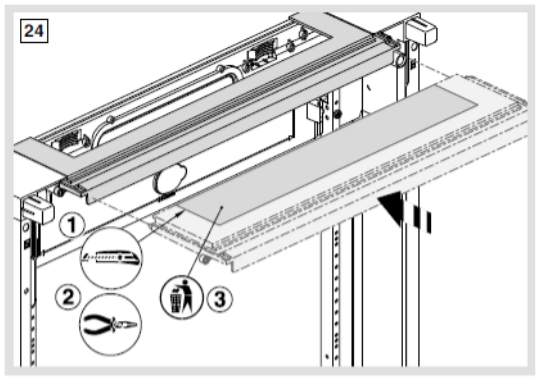
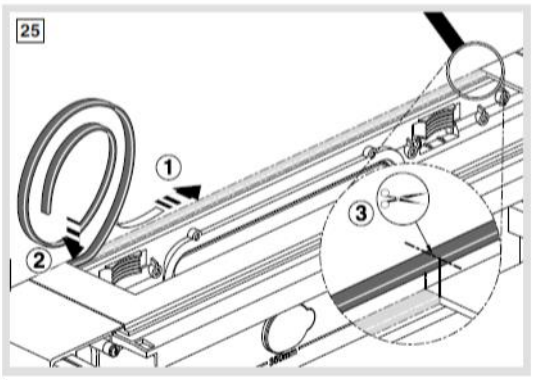
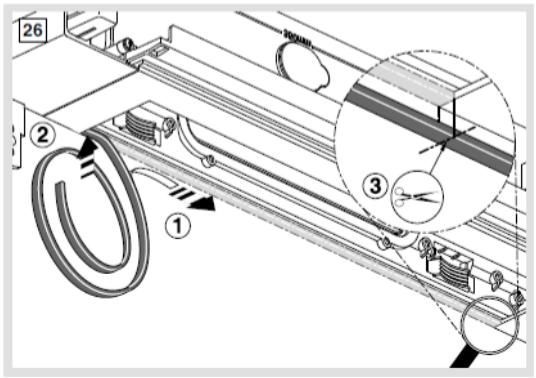
Vertical association (first enclosure already wall-mounted)

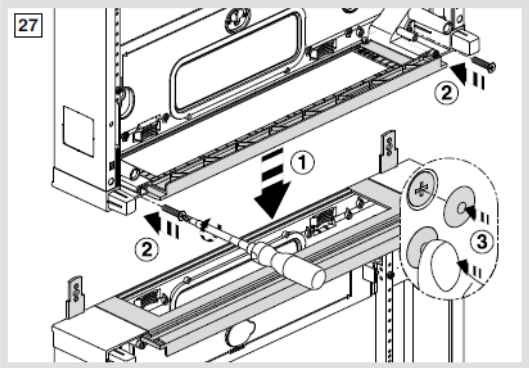
Needed are following parts:





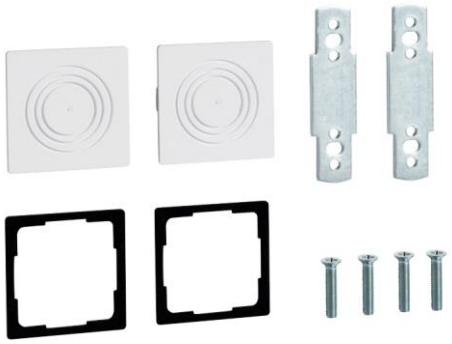
Step	Action
1	Perforate holes left/right hand side with screwdriver and hammer [22] 

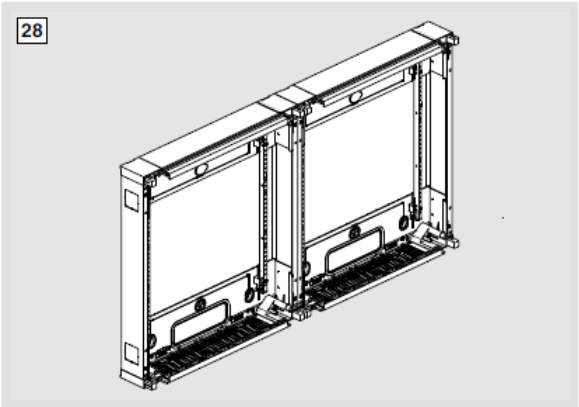
Step	Action
2	Insert fixing plates from the top and screw them from the inside with M6 screws [23] 
3	Cut cable entry plate opening as wished and stick gasket in between [24] [25] [26]   

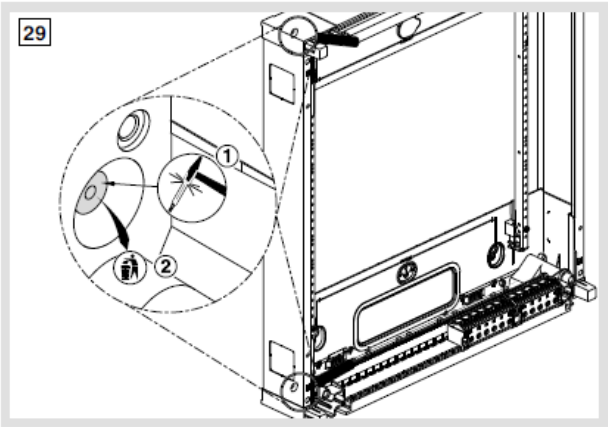
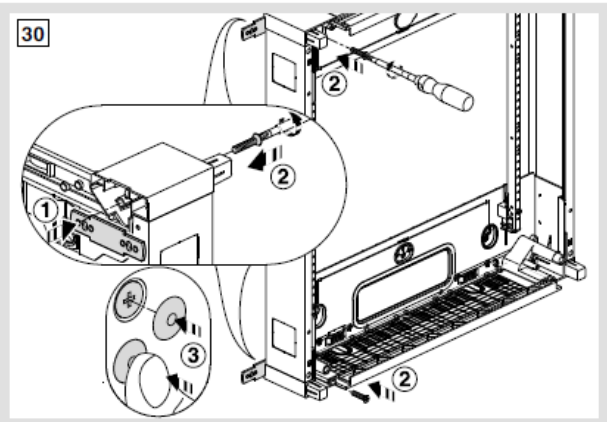
Step	Action
4	Insert top enclosure through fixing plates above first enclosure [27] 
5	Screw them from the inside with M6 screws [27]
6	Put insulation caps above all M6 screw heads [27]

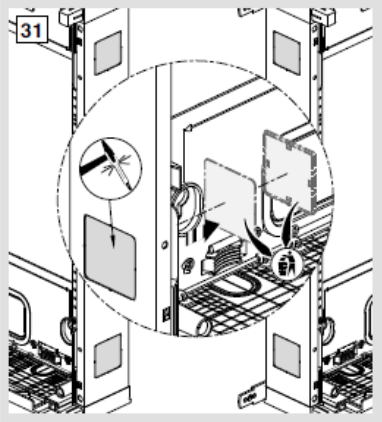
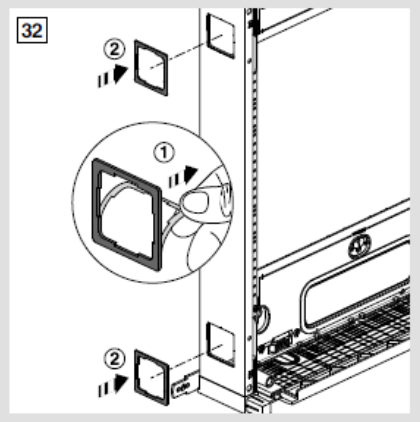
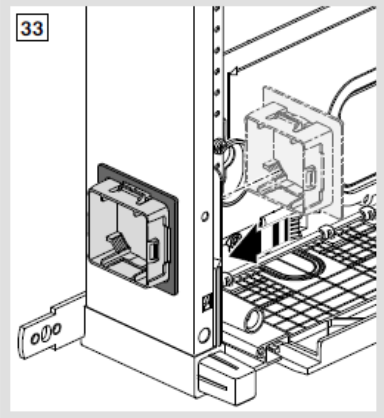
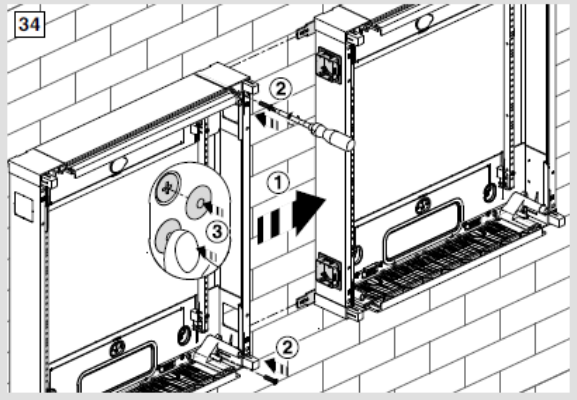
Horizontal association (first enclosure already wall-mounted)

Needed are following parts:



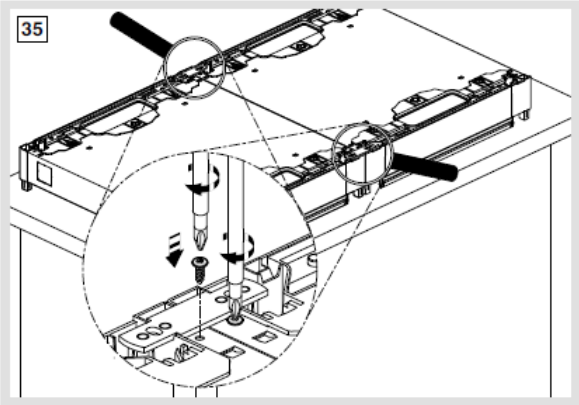


Step	Action
1	Perforate holes top/bottom side with screwdriver and hammer [29] 
2	Insert fixing plates from the side and screw them from the inside with M6 screws [30] 

Step	Action
3	Perforate side openings with a hammer and stick gasket around them [31] [32]  
4	Insert side plates top/bottom from the inside [33] 
5	Snap second enclosure from the side over fixing plates [34] 
6	Screw them from the inside with M6 screws [34]
7	Put insulation caps above all M6 screw heads [34]
8	**Fix second enclosure at the wall with both hands free (USP)**

Horizontal association or vertical association with both enclosures on table

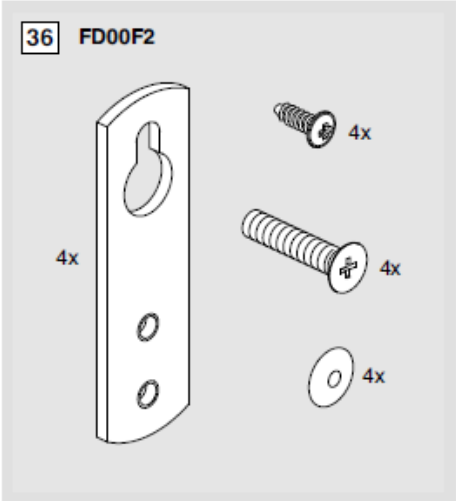
⇨ Same process as related above plus following step:

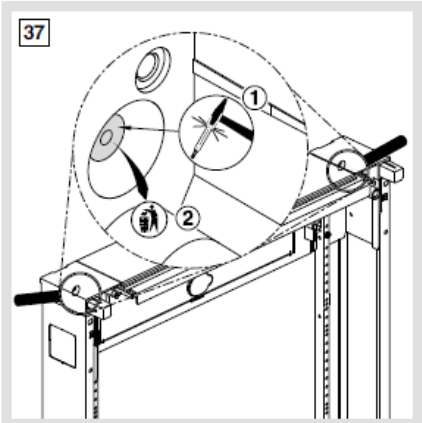


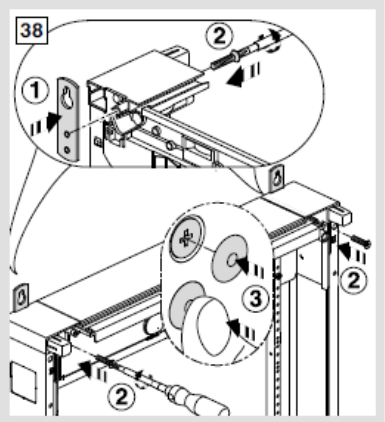
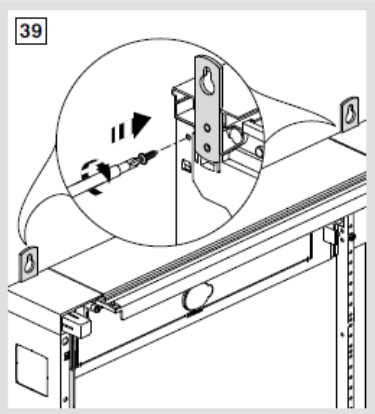
- Reinforce stability of assembly by 4x screwing top/bottom plastic parts of the enclosure with metallic back panel with 4 small screws delivered-by

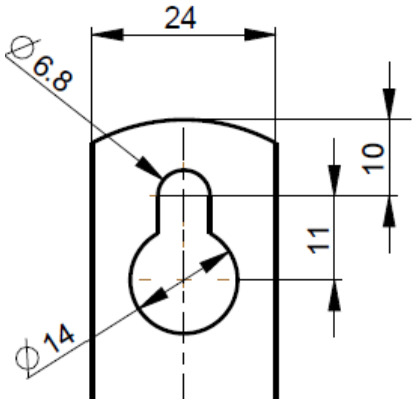
FD00F2: Fixation kit (for surface versions only)

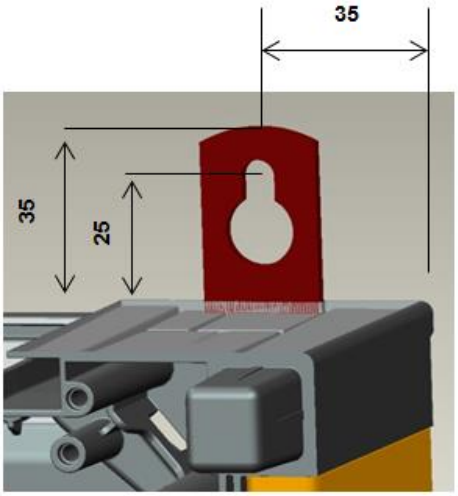
- to mount a surface enclosure with 4 external fixing plates



Step	Action
1	Perforate holes left/hand right side and top/bottom with screwdriver and hammer [37] 

Step	Action
2	Insert external fixing plates from the top and screw them from the inside with M6 screws [38] 
3	Reinforce stability of assembly by 4x screwing top/bottom plastic parts of the enclosure with metallic back panel with 4 small screws delivered-by [39] 



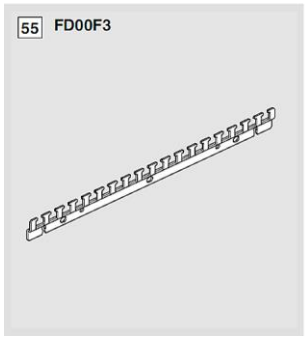


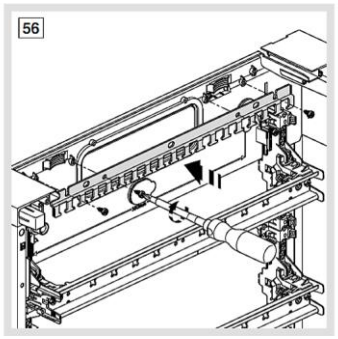
Distances between fixing holes: Width = 480 mm / Height = Enclosure height + 50 mm

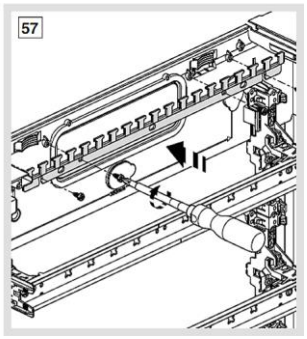
FD00F3: Bar for cables fixation (for surface and flush versions)

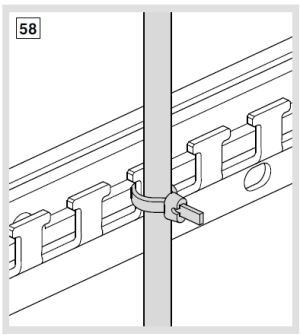
- to fix incoming / outgoing cables with cable straps

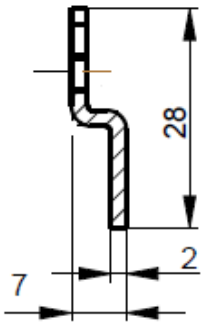
⇨ Part delivered-by in each AN and DN surface version.



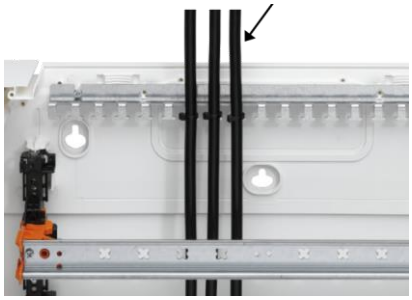


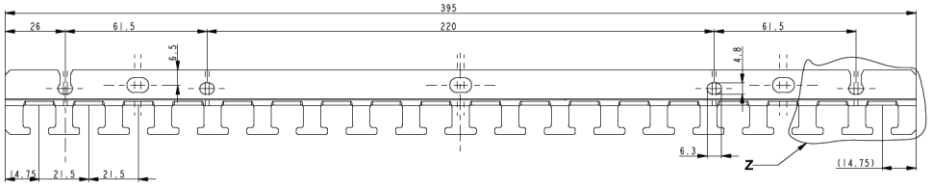




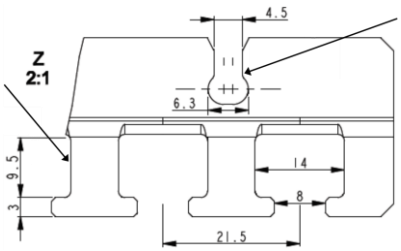


Bar can also be fixed on the wall above cable entry





Up to 9,5 mm width for big cable tie fixing



Quick dismounting sideways

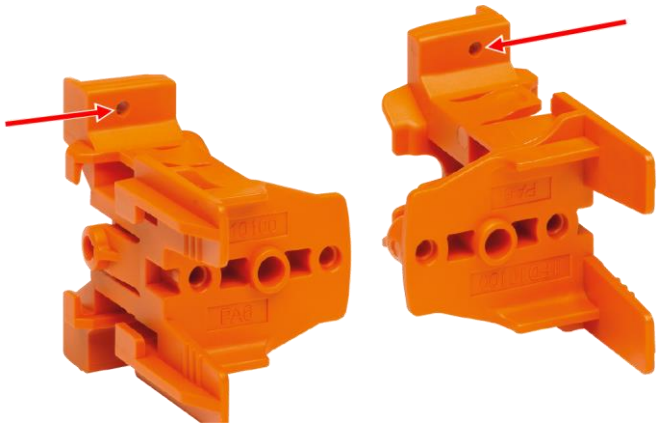
6.3.7 FD00H… = DIN rail Holders for equipment units

FD00H1: 2x Base element for DIN rail fixation (for surface, flush high-depth and flush low-depth versions)

- to use as spare part or to complete first two-rows in AN or MN versions or to equip GN versions
- part to snap-in on vertical upright and 1x to screw-in each 150 mm
- with 6 standard mounting screws delivered-by (2 for DIN rail fixation)
- kit to complete with FD00H2 and UZ02B9

FD00H2: 2x Top element for DIN rail fixation (for surface and flush high-depth versions)

- to use as spare part or to complete first two-rows in AN or MN versions or to equip GN versions
- part to slide-in on base element FD00H1
- not compatible with flush low-depth versions
- with 4 standard mounting screws delivered-by for DIN rail fixation
- for more stability or big devices, the part can be screwed to the base element at 2 places (see arrow below) with the 13 mm long screws (4x delivered-by in this kit)



6.3.8 FD00Q… = Quick-Connect & terminal holder

FD00Q1: 1x Quick-Connect holder (for surface, flush high-depth and flush low-depth versions)

- to use as spare part or to complete 22, 32, 42 or 52 versions (delivery form with only 1)
- Part to snap-in on back panel top/bottom plastic part
- Part can be optionally 2x screwed to back panel top/bottom plastic part with 4 screw bag delivered-by
- Fixation screws are the same than for P1, P2 and P3 cable entry plate fixing (Ø 4x16 mm).
- max. input: 80 x 4 mm^2 / 24 x 25 mm^2

Earth Terminal Blocks

	Description	Width	Reference
	Terminal, QC, PE, 6 connections	30 mm	KN06E
	Terminal, QC, PE, 10 connections	45 mm	KN10E
	Terminal, QC, PE, 14 connections	60 mm	KN14E
	Terminal, QC, PE, 18 connections	75 mm	KN18E
	Terminal, QC, PE, 22 connections	90 mm	KN22E
	Terminal, QC, PE, 26 connections	105 mm	KN26E

Jumper for Earth Terminal Blocks

To connect the Earth Terminal Blocks KNxxE

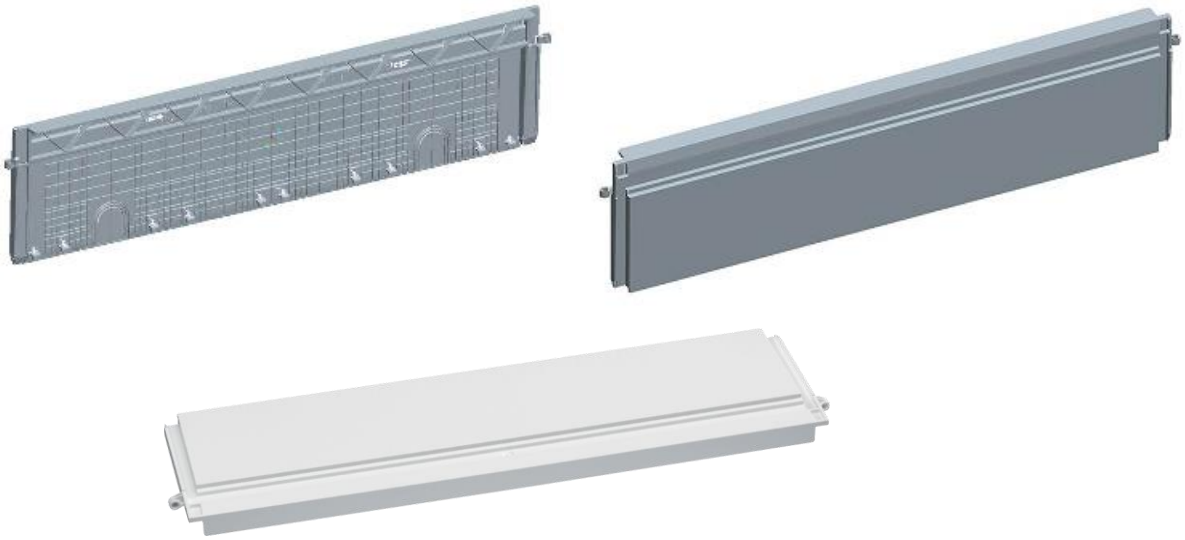
Description	Reference
Terminals, QC, PE, Jumper	KN99E

Other terminal blocks and jumpers available for neutral and phase like KNxxN, KNxxP...

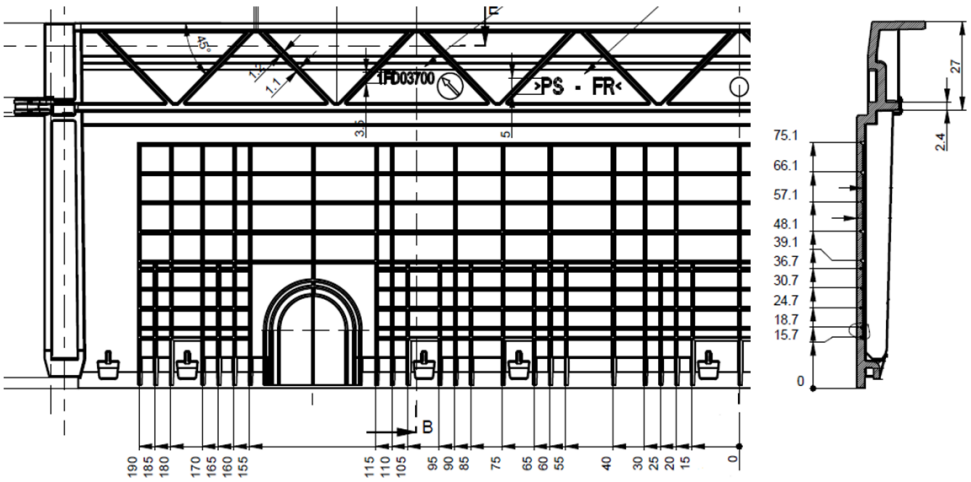
6.3.9 FD00P… = Plate for cable entry

FD00P1: 1x Plate for cable entry (Slider) with rectangular openings (for surface, flush high-depth and flush low-depth versions)

- Slider included top/bottom in each surface and flush version
- Reference to use as spare part
- For better stability, the plate can be 2x screwed to back panel top/bottom plastic part with 4 screw bag (Ø 4x16 mm) delivered-by



Maximum rectangular area for cable entry: 420 x 80 mm

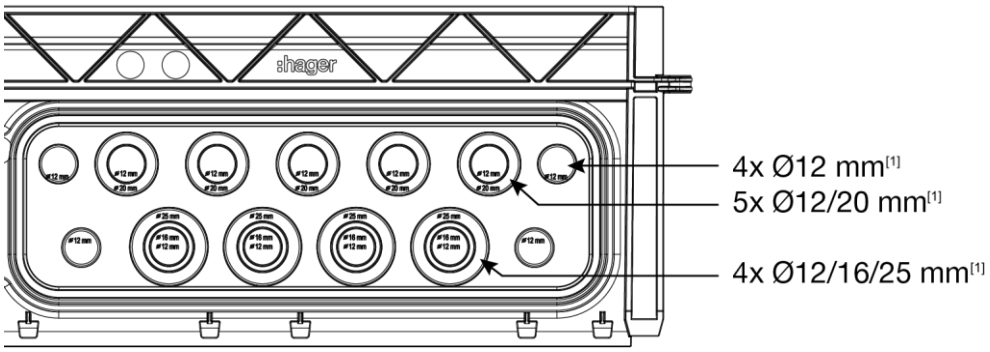


FD00P2: 1x Plate for cable entry (Slider) with 2 water-proof flanges IP41 (for surface, flush high-depth and flush low-depth versions)

- Slider with 2 water-proof flanges IP41 to mount-in
- Reference to use for water-proof direct cable throughout
- The water-proof flanges can be ordered as single parts under **VZ741**
- For better stability, the plate can be 2x screwed to back panel top/bottom plastic part with 4 screw bag (Ø 4x16 mm) delivered-by

FD00P3: 1x Plate for cable entry (Slider) with tube openings (for surface, flush high-depth and flush low-depth versions)

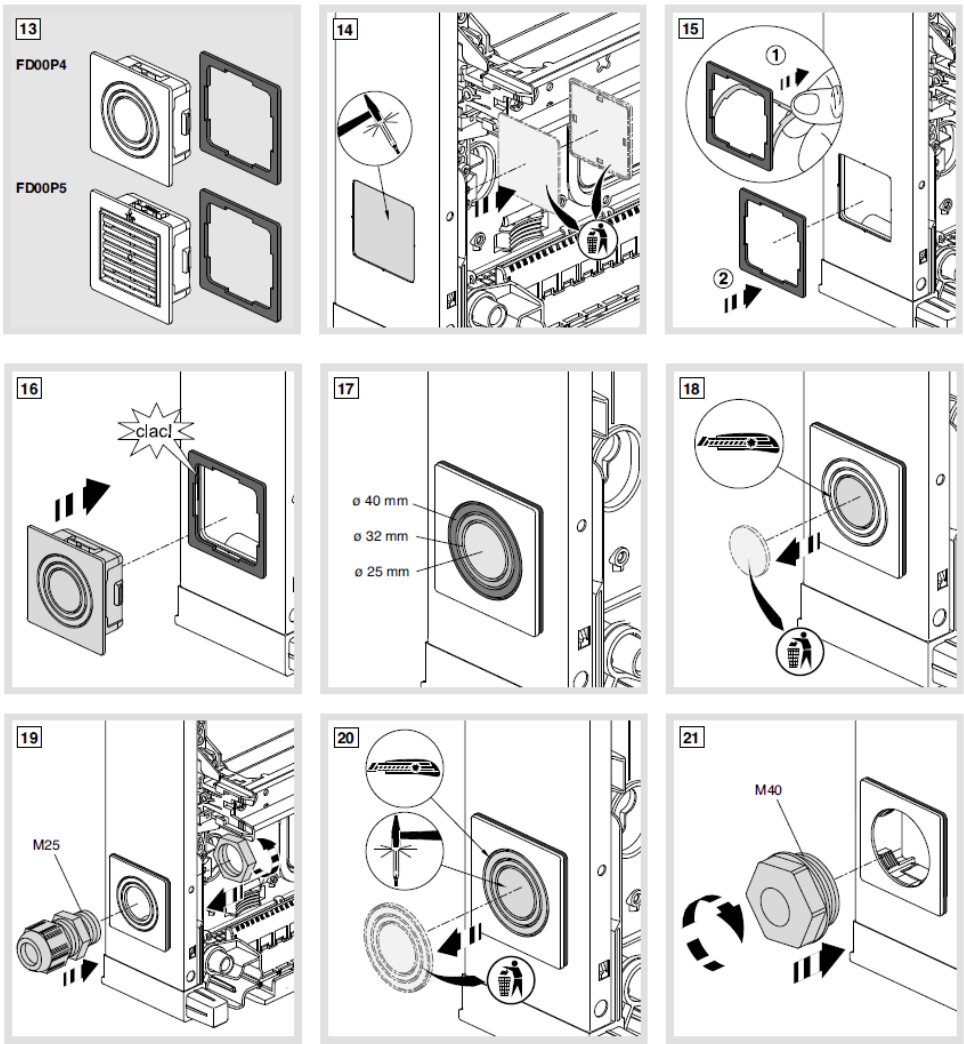
- Slider with pre-perforated rounded openings for tubes
- For better stability, the plate can be 2x screwed to back panel top/bottom plastic part with 4 screw bag (Ø 4x16 mm) delivered-by



[1] per half

FD00P4: 2x Plate for cable entry (Side plate) (for surface versions only)

- **USP: M40 cable gland head can be screwed directly into side plate winding (without its screwing ring)**
- M25 cable gland can also be mounted-in (with its screwing ring)



FD00P5: 2x Side plate for aeration (for surface versions only)

Aeration grid reduces IP41 to IP30. For mounting see page 85.

Power loss effect +27 % to 64 % with kit mounted asymmetrically (for example top left- and bottom right-hand side) on distribution enclosure FD (see also chapter 'power loss' starting on page 123).

Enclosure				Permissible power loss P_{perm} for standard surface enclosures without ventilation openings						Permissible power loss P_{perm} for standard surface enclosures with diagonal ventilation openings FD00P5						
Type	Height H	Width B	Depth B	Surface mounted with temperature rise Δt					% Enclosure height	Δ%	Surface mounted with temperature rise Δt					% Enclosure height
				10K	15K	20K	25K	30K			10K	15K	20K	25K	30K	
	mm	mm	mm	W	W	W	W	W			W	W	W	W	W	
FD22...	450	500	193 (Depth installation room 135 mm)	15	24,8	35,4	46,8	58,7	75	+27 %	15	24,8	35,4	46,8	58,7	75
				17,9	29,7	42,4	56	70,2	50	+23 %	17,9	29,7	42,4	56	70,2	50
FD32...	600			17,7	29,4	42	55,4	69,5	75	+28 %	17,7	29,4	42	55,4	69,5	75
				22,2	36,8	52,7	69,5	87,2	50	+24 %	22,2	36,8	52,7	69,5	87,2	50
FD42...	750			20,6	34,1	48,8	64,4	80,7	75	+29 %	20,6	34,1	48,8	64,4	80,7	75
				26,5	43,8	62,7	82,7	130,8	50	+25 %	26,5	43,8	62,7	82,7	103,8	50
FD52...	900			23,5	38,9	55,6	73,4	92,1	75	+40 %	23,5	38,9	55,6	73,4	92,1	75
				30,6	50,7	72,6	95,8	120,1	50	+30 %	30,6	50,7	72,6	95,8	120,1	50
FD62...	1050			26,4	43,7	62,5	82,5	103,5	75	+51 %	26,4	43,7	62,5	82,5	103,5	75
				34,7	57,5	82,3	108,6	136,5	50	+40 %	34,7	57,5	82,3	108,6	136,2	50
FD72...	1200			28,5	47,1	67,4	89	111,6	75	+64 %	28,5	47,1	67,4	89	111,6	75
				39,3	65	93	122,7	154	50	+50 %	39,3	65	93	122,7	154	50

FD00P6: Side plate for cable entry with M40 flange (for surface versions only)

- Composed of a plastic adapter with gasket and of a water- and dust-proof round black flange M40 screwed-in. For mounting see page 85.
- Round flange with 6 openings for following cable diameters:
  - 1 x 2,0 – 4,0 mm
  - 2 x 3,0 – 6,0 mm
  - 2 x 5,0 – 9,0 mm
  - 1 x 7,5 – 12,0 mm
- **USP: Openings can be reclosed with finger touch and contain a cable strain relief functionality**
- For mounting see page 85.

FD00P6

FD00P6 mounting into New VegaD surface board

VZ741: New VegaD cable entry flange IP41

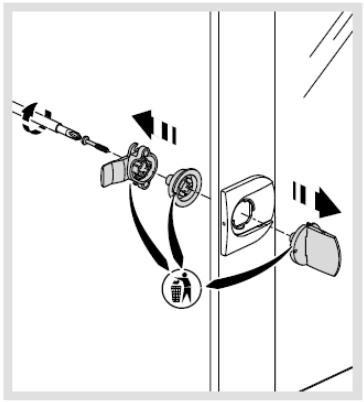
- The flange can be snapped-in on back panel of surface and flush enclosures after cut-out of plastic wall
- All enclosure back panels can receive 2 flanges for cable back entry (top and bottom)
- Reference is also part of slider **FD00P2**
- This flange is also mounted in Vector boxes VE…

VZ741

Example: Cable entry flange VZ741 mounted on the back of a New VegaD flush enclosure

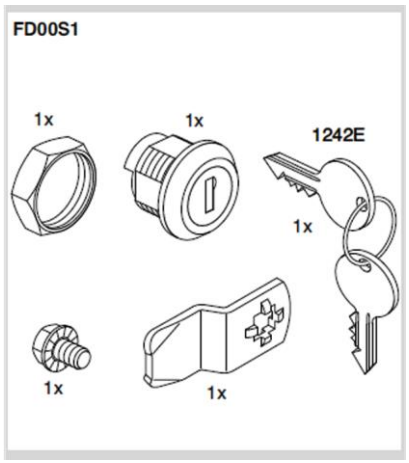
6.3.10 FD00S… = Serrure (closing system)

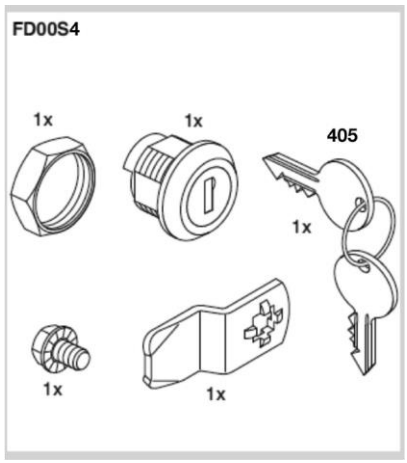
FD00S0: Standard closing system as spare part

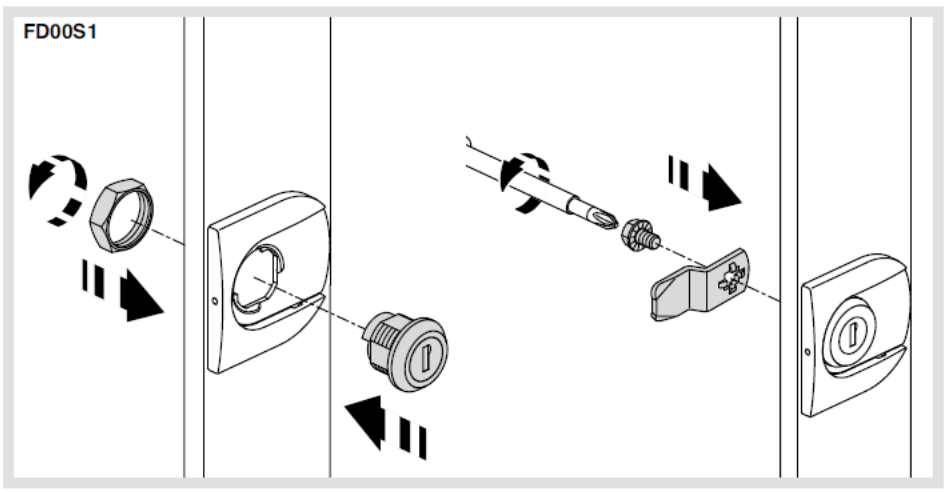


Mounting / Dismounting schema

FD00S1 / FD00S4: key closing system 1242E / 405



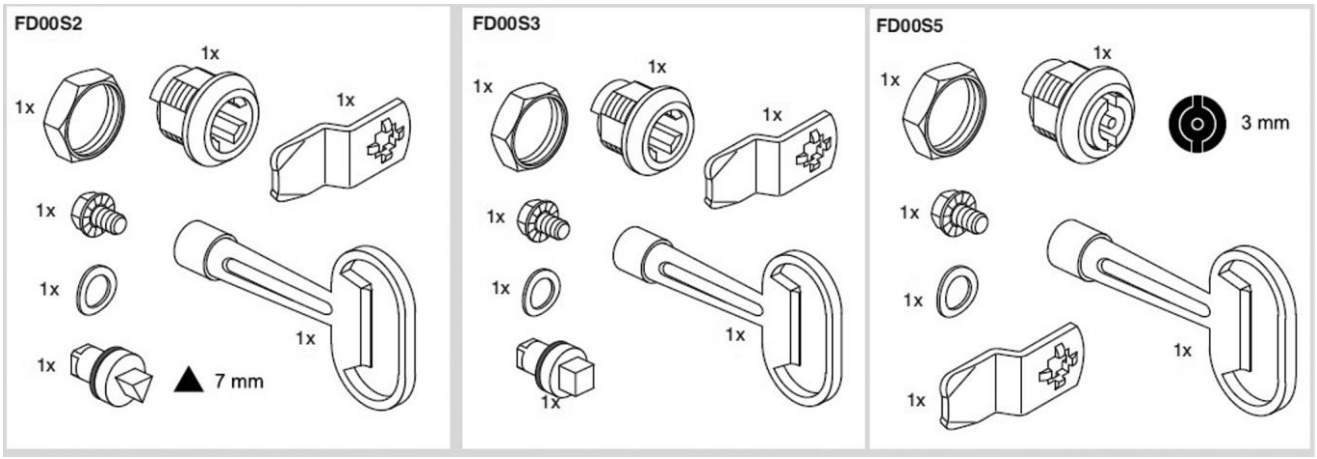


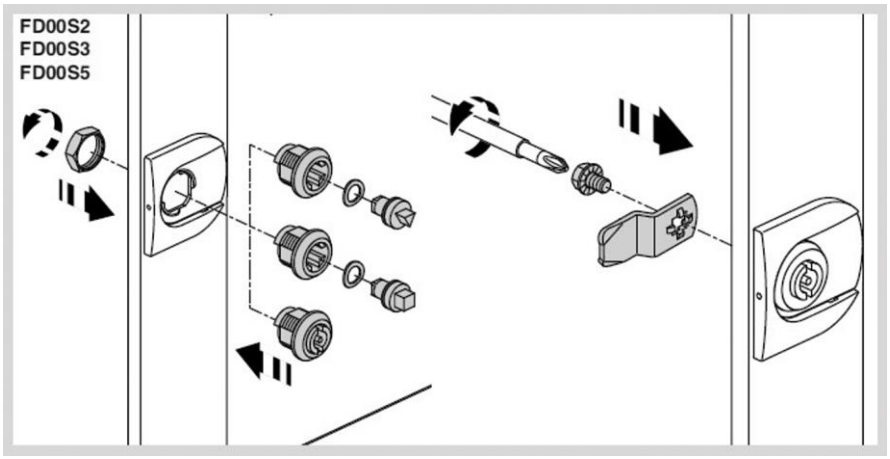


Mounting schema

FD00S2 / FD00S3 / FD00S5: special closing system triangle 7 mm / square 7 mm / two-way 3 mm

- All references are delivered with tool



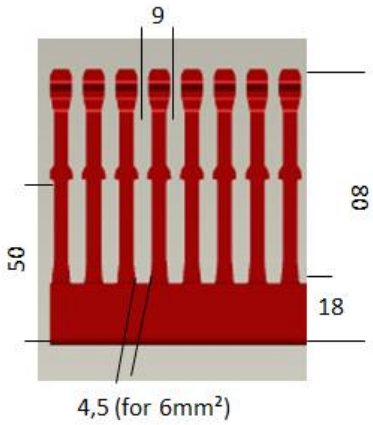


Mounting schema

6.3.11 FD00T… = Trunking

For having a nice parallel cable management from MCBs with 1 or 2 outgoings (18 mm or 9 mm distance between wires) to horizontal cable tray, a new cutting tool has been made for BA7A profiles.

The resulting cable trays have 9 mm distance between slots and are available under FD00T1 and FD00T2 product codes.



FD00T1: 4x horizontal cable tray kit 80x30 with 9 mm interslot distance in PVC

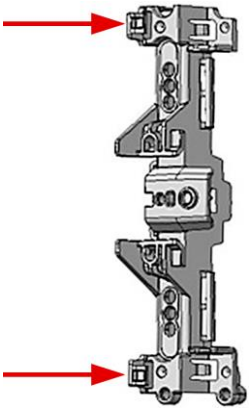
- dark grey colour RAL 7030
- 438 mm width for horizontal quick fixing between 2 rows without tool
- delivered with covers
- BA7A profile basis
- **not compatible with flush low-depth, as 80 mm height would collide with cover**

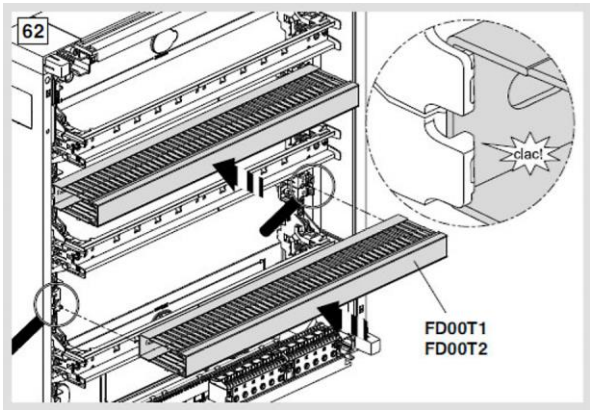
Horizontal trunking can be quickly fixed between 2 rows without tool, simply by clipping it on black base element FD00H1 (see red arrows in graphic on next page).

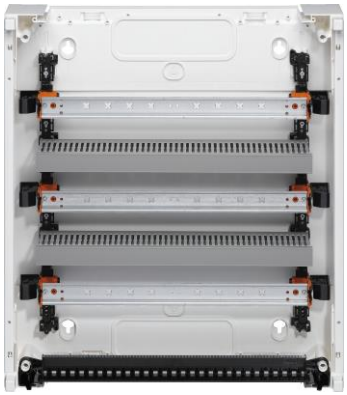
FD00T2: horizontal trunking kit 80x30 with 9 mm interslot distance halogen-free

- soft grey colour RAL 7035
- 438 mm width
- delivered with covers
- HA7 profile basis
- **not compatible with flush low-depth, as 80 mm height would collide with cover**

Both horizontal trunkings can be quickly fixed between 2 rows without tool, simply by clipping them on black base element FD00H1 (see red arrows).







Standard BA7A profile with 12,5 mm interslot distance are also compatible with New VegaD fixing, but have to be cut from 2 m profile to 438 mm length by the installer.

Thus, it is also possible to clip-on smaller BA7A profiles cut to 438 mm like 40x30 or 60x30 in flush low-depth enclosures. See compatibility below:

BA7A range (PCV) RAL 7030 dark grey		**HA7 range (PC/ABS) RAL 7035 soft grey**		
BA7A40030	40x30 mm	HA740030	40x30 mm	**For all New VegaD surface and flush**
BA7A60030	60x30 mm	HA760030	60x30 mm	
BA7A80030	80x30 mm	HA780030	80x30 mm	**Only for New VegaD surface + flush high-depth**
BA7A100030	100x30 mm	HA7100030	100x30 mm	

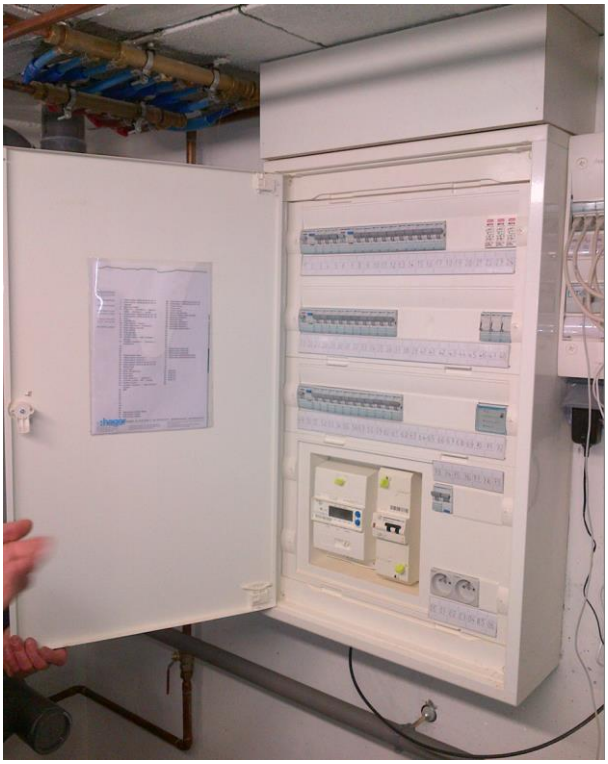
6.3.12 BA7A/HA7… = vertical trunkings sideways

BA7A and HA7 trunking references shown in table above are compatible with brackets FD00B1 (see page 56) and can be mounted vertically in New VegaD surface enclosures. Thus, it is possible to combine horizontal and vertical trunkings to get a clean installation picture.

Horizontal and vertical trunking installation into surface enclosure

6.3.13 FZ… = Univers cable storage and hiding box

In order to hide incoming cables over a New VegaD surface enclosure like FD52..., customer can "puzzle" a wooden-based bulky storing box or can order cable storing ducts FZ…, developed for the Univers range:



Homemade wooden box mounting

Univers cable storage box mounting

FZ142: width 550 mm, cross section 155 x 115 mm (RAL 9010)

FZ142
550 mm
wide
(RAL 9010)

Cross sec-
tion
[mm]
115 x 155
or
155 x 115

FZ442: width 550 mm, cross section 195 x 155 mm (RAL 9010)

FZ442
550 mm
wide
(RAL 9010)

Cross sec-
tion
[mm]
155 x 195
or
195 x 155

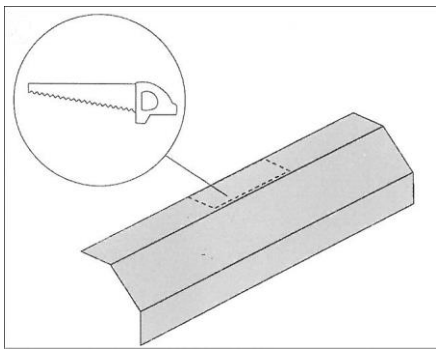
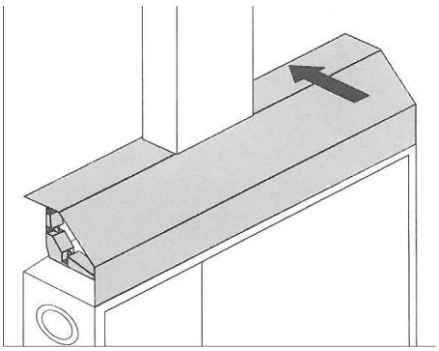
FZ352: width 550 mm, cross section 195 x 155 mm (RAL 7035)

FZ352
550 mm
wide
(RAL 7035)

Cross sec-
tion
[mm]
155 x 195
or
195 x 155

Mounting instructions:

Step	Action
1	Choose long side ... ... or short side
2	Screw into wall
3	Clip in front cover
4	Clip in side covers

Step	Action
5	Ready
6	If needed, cut out opening for external vertical cable tray integration  

Mounting examples:

FZ142 mounted 155 mm vertically

FZ352 mounted 155 mm vertically

FZ442 mounted 195 mm vertically

FZ352+ FZ442 mounted 195 mm vertically

6.3.14 UZ…V. = Univers N cable brackets

UZ01V1: 20x adapter for cable bracket Univers N

- The adapter can be mounted on standard Univers DIN rail in each hole with flower shape
- The adapter can receive small bracket UZ25V2 (surface, flush high-depth and flush low-depth versions) or big bracket UZ25V1 (surface and flush high-depth versions only)

UZ25V1: 20x big bracket for cables Univers N

- Part to snap-in on adapter UZ01V1
- Single cover UT50C from cable tray Univers can be snapped on its top to hide cables below

UZ25V2: 20x small bracket for cables Univers N

- Part to snap-in on adapter UZ01V1
- Single cover UT50C from cable tray Univers can be snapped on its top to hide cables below
- Part can be also mounted 180° without adapter under standard Univers DIN rail in each hole with flower shape (surface and flush high-depth versions only)

UZ01V1

UZ25V1

UZ25V2

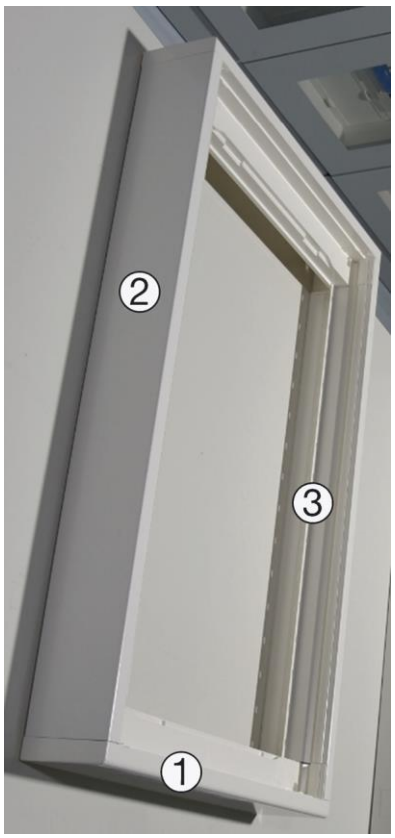
UZ25V1 with UZ01V1

Mounting example in flush high-depth

6.3.15 Door frames as spare parts

Door frames for FD…N as spare part

Enclosure height	FD Series (193 mm deep)	Reference ending letters	① Top/bottom plastic part (2x needed)	② Metallic side part RAL 9010 (2x needed)	③ Extruded plastic side part for cover fixation (2x needed)	④ Plastic screw kit (4 screws 1FD02900 included)
450	22	AN, BN, CN, DN, GN, LN, MN	1FD02701	1FD05290	5D020100	ZZ42BS
600	32			1FD05390	5D020200	
750	42	AN, BN, CN, DN, GN, LN, MN, BMN		1FD05890	5D020300	
900	52			1FD05990	5D020400	
1050	62	AN, BN, CN, DN, GN, LN, MN		1FD10390	5D020500	
1200	72			1FD05790	5D020600	



④

ZZ42BS: Door frame fixing plastic screws as spare part

ZZ42BS

Door frame fixing plastic screws (for surface and flush) can be ordered as spare part under ZZ42BS ref (BS stands for "Blind frame Screws")

Door frames for FU…N as spare part

Enclosure height	FU Series with high frame (72 mm overhead)	Reference ending letters	① Top/bottom plastic part (2x needed)	② Metallic side part RAL 9010 (2x needed)	③ Side part for door latch admission (2x needed)	④ Plastic screw kit (4 screws 1FD02900 included)
537	22	AN, GN, MN	1FU07301	1FU06190	1FU06700	ZZ42BS
687	32			1FU06290		
837	42			1FU06390		
987	52			1FU06490		
1137	62			1FU06590		
1287	72			1FU06690		

Enclosure height	FU Series with flat frame (40 mm overhead)	Reference ending letters	① Top/bottom plastic part (2x needed)	② Metallic side part RAL 9010 (2x needed)	③ Side part for door latch admission (2x needed)	④ Plastic screw kit (4 screws 1FD02900 included)
537	22	BN, CN, DN, LN, RN	1FU07201	1FU05190	1FU06700	ZZ42BS
687	32			1FU05290		
837	42			1FU05390		
987	52			1FU05490		
1137	62			1FU05590		
1287	72			1FU05690		

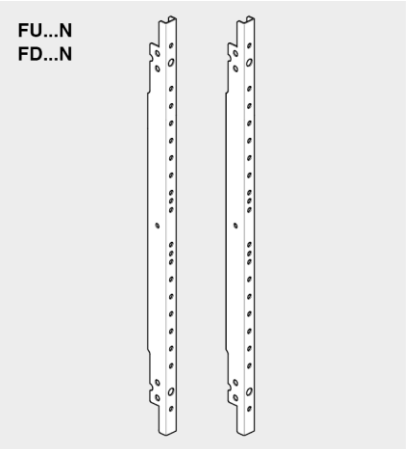
④

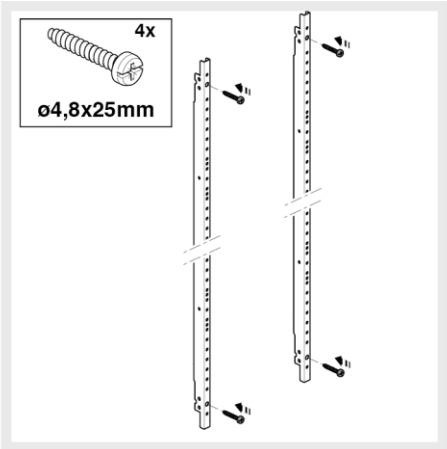
6.3.16 Vertical uprights and fixation accessories

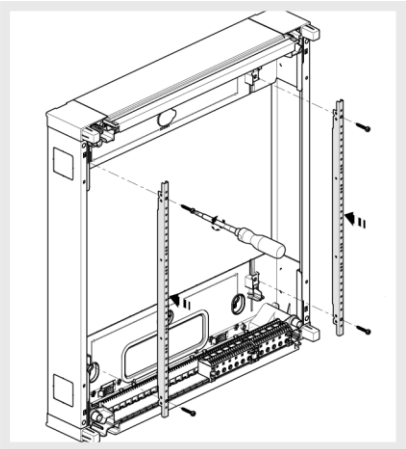
Vertical uprights as spare part

To get vertical uprights as spare parts, kit UN0.FN ① + 4 screws ② have to be ordered.

			①	②
Enclosure height	**FD or FU size**	**Reference ending letters**	**Vertical upright kit (2 uprights included)**	**Screw 4,8x25 (4x needed)**
450 / 537	22	AN, BN, CN, DN, GN, LN, MN, RN	UN02FN	5E460400
600 / 687	32	AN, BN, CN, DN, GN, LN, MN, RN	UN03FN	
750 / 837	42	AN, BN, CN, DN, GN, LN, MN, RN, BMN	UN04FN	
900 / 987	52	AN, BN, CN, DN, GN, LN, MN, RN, BMN	UN05FN	
1050 / 1137	62	AN, BN, CN, DN, GN, LN, MN, RN	UN06FN	
1200 / 1287	72	AN, BN, CN, DN, GN, LN, MN, RN	UN07FN	







ZZ41SF: Lock nuts for vertical upright fixing as spare part

Lock nuts are required on each corner of the internal equipment system for screwing the vertical uprights to the enclosure body. They are premounted in every New VegaD enclosure.

Kit ZZ41SF (composed of 4 counterparts 5G000200) can be ordered separately, if for any reason one is missing.

ZZ41SF

In ZZ41SF, SF stands for "Screw Fixation".

7 Packaging and dimensions of enclosures

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7.1 Pictures of packaging

Enclosures:

2-pieces Hager brand card-board packaging with 2 white Hager labels 175x90 mm

Equipment units and covers:

1 piece Hager brand card-board packaging with 2 white Hager labels 85x60 mm

Single parts:

plastic bag packaging with 1 white Hager label 85x60 mm or pre-printed

Single doors:

1-piece Hager brand card-board packaging with 2 white Hager labels 100x73 mm

7.2 Packaging use at the workshop or at the construction site

As both surface & flush protective cardboards are made of 2 pieces, New VegaD enclosure packagings are very easy to open. At the workshop or at the construction site, it is also recommended to use the first half for protecting frame or frame with door and the other half to for protecting back panel, chassis or door.

Surface enclosure packaging:

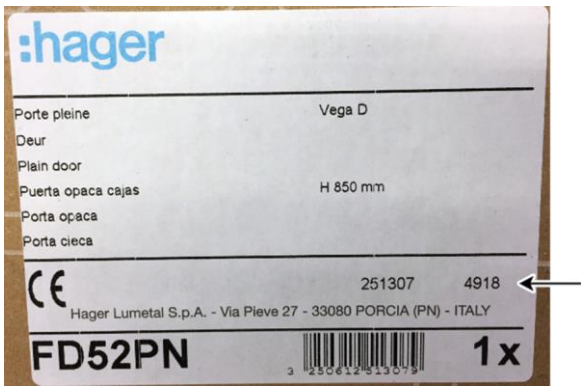
Flush low- and high-depth enclosure packaging:

7.3 Labels

7.3.1 Labels on cardboard packaging

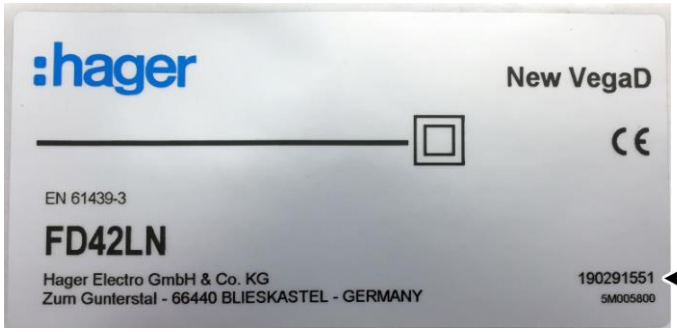
Traceability code:
Enclosures
30481218 =
Year 23, Day 048,
Hour 12, Minute 18

Traceability code:
Equipment units
30530846 =
Year 23, Day 053,
Hour 08, Minute 46



Traceability code:
Doors
4918 = Week 49,
Year 18 (2018)

7.3.2 Enclosure type labels



Traceability code:
Enclosures
190291551 =
Year 19, Day 029,
Hour 15, Minute 51

7.4 Dimensions and weights of enclosures

7.4.1 Surface enclosures without door (FD…N)

Surface enclosures New VegaD	Height	Width	Depth	N° per palette	Weight (unpacked)	Weight (packed)	Height (packed)	Width (packed)	Depth (packed)
	mm	mm	mm	pcs.	kg	kg	mm	mm	mm
FD22AN	450	550	193	16	6,2	7,2	480	560	200
FD22DN	450	550	193	16	7,6	8,6	480	560	200
FD22GN	450	550	193	16	6	7	480	560	200
FD22LN	450	550	193	16	7,3	8,3	480	560	200
FD22MN	450	550	193	16	6,2	7,2	480	560	200
FD22RN	450	550	193	16	7,6	8,6	480	560	200
FD32AN	600	550	193	8	9	10	630	560	200
FD32DN	600	550	193	8	10	11,3	630	560	200
FD32GN	600	550	193	8	7,8	8,8	630	560	200
FD32LN	600	550	193	8	9,7	10,9	630	560	200
FD32MN	600	550	193	8	8,8	9,8	630	560	200
FD32RN	600	550	193	8	10	11,3	630	560	200
FD32ZN	600	550	193	8	11,9	13,2	630	560	200
FD42AN	750	550	193	8	10,6	11,8	780	560	200
FD42DN	750	550	193	8	12	13,2	780	560	200
FD42GN	750	550	193	8	9,2	10,3	780	560	200
FD42LN	750	550	193	8	11,6	12,8	780	560	200
FD42MN	750	550	193	8	10,4	11,6	780	560	200
FD42RN	750	550	193	8	12	13,2	780	560	200
FD52AN	900	550	193	8	12,6	14	930	560	200
FD52DN	900	550	193	8	14	15,4	930	560	200
FD52GN	900	550	193	8	10,8	12	930	560	200
FD52LN	900	550	193	8	13,7	15,1	930	560	200
FD52MN	900	550	193	8	12,6	14	930	560	200
FD52RN	900	550	193	8	14	15,4	930	560	200
FD62AN	1050	550	193	8	14,8	16,4	1080	560	200
FD62DN	1050	550	193	8	16,2	17,8	1080	560	200
FD62GN	1050	550	193	8	12,2	13,8	1080	560	200
FD62LN	1050	550	193	8	16	17,6	1080	560	200
FD62MN	1050	550	193	8	14,8	16,2	1080	560	200
FD62RN	1050	550	193	8	16,2	17,8	1080	560	200
FD72AN	1200	550	193	4	17	18,8	1230	560	200
FD72DN	1200	550	193	4	18,4	20,2	1230	560	200
FD72GN	1200	550	193	4	13,6	15,2	1230	560	200
FD72LN	1200	550	193	4	18,1	19,9	1230	560	200
FD72MN	1200	550	193	4	16,8	18,6	1230	560	200
FD72RN	1200	550	193	4	18,4	20,2	1230	560	200

7.4.2 Surface enclosures with door (FD…N)

Surface enclosures New VegaD	Height	Width	Depth	N° per palette	Weight (unpacked)	Weight (packed)	Height (packed)	Width (packed)	Depth (packed)
	mm	mm	mm	pcs.	kg	kg	mm	mm	mm
FD22ACN	450	550	193	16	9,7	10,8	480	560	200
FD22BN	450	550	193	16	10,7	11,8	480	560	200
FD22CN	450	550	193	16	11,1	12,2	480	560	200
FD32ACN	600	550	193	8	12,4	13,8	630	560	200
FD32BN	600	550	193	8	14	15,4	630	560	200
FD32CN	600	550	193	8	14,4	15,8	630	560	200
FD42ACN	750	550	193	8	15,3	17	780	560	200
FD42BMN	750	550	193	8	17	18,2	780	560	200
FD42BN	750	550	193	8	16,2	17,8	780	560	200
FD42CN	750	550	193	8	16,7	18,4	780	560	200
FD52ACN	900	550	193	8	17,9	19,8	930	560	200
FD52BMN	900	550	193	8	20	21,4	930	560	200
FD52BN	900	550	193	8	19,5	21,4	930	560	200
FD52CN	900	550	193	8	19,7	21,6	930	560	200
FD62ACN	1050	550	193	8	21,2	23,4	1080	560	200
FD62BN	1050	550	193	8	22,4	24,6	1080	560	200
FD62CN	1050	550	193	8	22,6	24,8	1080	560	200
FD72ACN	1200	550	193	4	23,9	26,4	1230	560	200
FD72BN	1200	550	193	4	25,8	28,4	1230	560	200
FD72CN	1200	550	193	4	25,7	28,2	1230	560	200

7.4.3 Flush enclosures without door (FU…N)

Flush enclosures New VegaD	Height	Width	Depth	N° per palette	Weight (unpacked)	Weight (packed)	Height (packed)	Width (packed)	Depth (packed)
	mm	mm	mm	pcs.	kg	kg	mm	mm	mm
FU22AN	537	600	182	8	8,5	9,4	575	645	192
FU22DN	537	600	150	10	9,1	10	575	645	160
FU22GN	537	600	182	8	7,5	8,4	575	645	192
FU22LN	537	600	150	10	8,9	9,8	575	645	160
FU22MN	537	600	182	8	8,5	9,4	575	645	192
FU22RN	537	600	150	10	9,1	10	575	645	160
FU32AN	687	600	182	8	10,3	11,4	725	645	192
FU32DN	687	600	150	10	11,5	12,6	725	645	160
FU32GN	687	600	182	8	9,3	10,4	725	645	192
FU32LN	687	600	150	10	11,3	12,4	725	645	160
FU32MN	687	600	182	8	10,3	11,4	725	645	192
FU32RN	687	600	150	10	11,5	12,6	725	645	160
FU42AN	837	600	182	8	12,2	13,6	875	645	192
FU42DN	837	600	150	10	12,8	14,2	875	645	160
FU42GN	837	600	182	8	11,2	12,6	875	645	192
FU42LN	837	600	150	10	12,6	14	875	645	160
FU42MN	837	600	182	8	12,2	13,6	875	645	192
FU42RN	837	600	150	10	12,8	14,2	875	645	160
FU52AN	987	600	182	8	15,1	16,5	1025	645	192
FU52DN	987	600	150	10	15,4	16,8	1025	645	160
FU52GN	987	600	182	8	13,2	14,6	1025	645	192
FU52LN	987	600	150	10	15	16,4	1025	645	160
FU52MN	987	600	182	8	15,1	16,5	1025	645	192
FU52RN	987	600	150	10	15,4	16,8	1025	645	160
FU62AN	1137	600	182	4	18,2	19,8	1175	645	192
FU62DN	1137	600	150	5	19,8	19,6	1175	645	160
FU62GN	1137	600	182	4	15,2	16,8	1175	645	192
FU62LN	1137	600	150	5	18,8	19,2	1175	645	160
FU62MN	1137	600	182	4	18,2	19,8	1175	645	192
FU62RN	1137	600	150	5	18	19,6	1175	645	160
FU72AN	1287	600	182	4	20,2	22,2	1325	645	192
FU72DN	1287	600	150	5	20,2	22,2	1325	645	160
FU72GN	1287	600	182	4	16,8	18,8	1325	645	192
FU72LN	1287	600	150	5	19,8	21,6	1325	645	160
FU72MN	1287	600	182	4	20,2	22,2	1325	645	192
FU72RN	1287	600	150	5	20,2	22,2	1325	645	160

7.4.4 Flush enclosures with door (FU…N)

Flush enclosures New VegaD	Height	Width	Depth	N° per palette	Weight (unpacked)	Weight (packed)	Height (packed)	Width (packed)	Depth (packed)
	mm	mm	mmm	pcs.	kg	kg	mm	mm	mm
FU22ACN	537	600	150	10	11	12,1	575	645	160
FU22BN	537	600	150	10	10,7	11,8	575	645	160
FU22CN	537	600	150	10	11,1	12,2	575	645	160
FU32ACN	687	600	150	10	14,3	15,7	725	645	160
FU32BN	687	600	150	10	14,2	15,6	725	645	160
FU32CN	687	600	150	10	14,4	15,8	725	645	160
FU42ACN	837	600	150	10	17,4	19,1	875	645	160
FU42BN	837	600	150	10	17,3	19	875	645	160
FU42CN	837	600	150	10	17,7	19,4	875	645	160
FU52ACN	987	600	150	10	20,5	22,6	1025	645	160
FU52BN	987	600	150	10	20,7	22,8	1025	645	160
FU52CN	987	600	150	10	20,9	23	1025	645	160
FU62ACN	1137	600	150	5	23,8	26,2	1175	645	160
FU62BN	1137	600	150	5	24	26,4	1175	645	160
FU62CN	1137	600	150	5	24	26,4	1175	645	160
FU72ACN	1287	600	150	5	27,2	29,9	1325	645	160
FU72BN	1287	600	150	5	26,9	29,6	1325	645	160
FU72CN	1287	600	150	5	27,5	30,2	1325	645	160

8 Wall fixation

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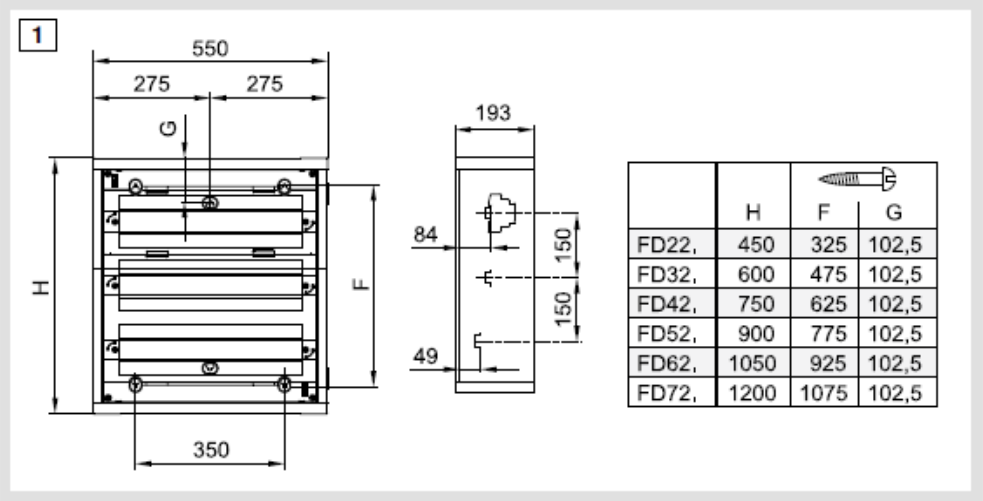
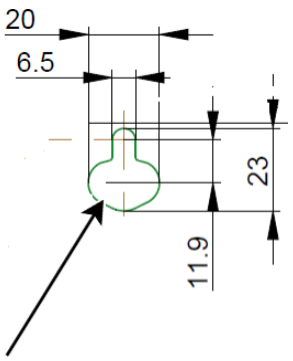
Plaster protection in flush enclosures	119

8.1 Wall-mounting for surface enclosures



	H	F	G
FD22,	450	325	102,5
FD32,	600	475	102,5
FD42,	750	625	102,5
FD52,	900	775	102,5
FD62,	1050	925	102,5
FD72,	1200	1075	102,5

There are 4 fixation holes (already perforated) at the edges and 2 in the middle (to cut/punch out) to use as pre-fixation.

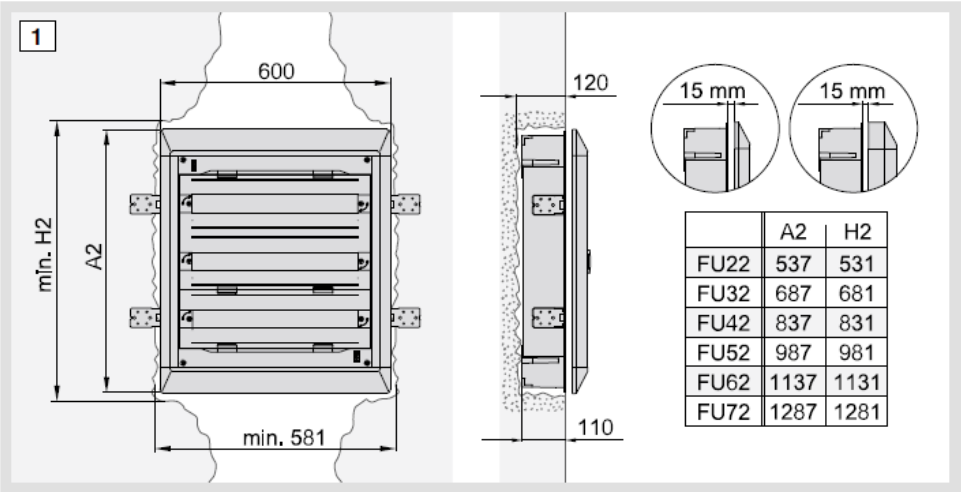


4 fixation holes at the edge have been enlarged to ease introduction of screw head and its grommet

All FD enclosures are delivered with 5 plastic caps for covering fixation holes.

There are also 4 external fixation plates with key holes that can be used for wall-mounting. They are available with accessory **FD00F2**.

8.2 Flush-mounting for flush enclosures



	A2	H2
FU22	537	531
FU32	687	681
FU42	837	831
FU52	987	981
FU62	1137	1131
FU72	1287	1281

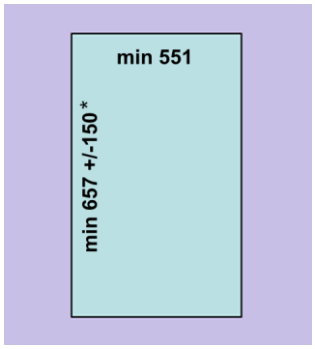
Flush holes dimensions are given by dims H2 and 581 mm in mounting instruction.

To ensure IP30 protection without door, a depth adjustment of the frame of 15 mm max. is recommended. Frame can be depth-adjusted until 23 mm above back panel by flush high-depth and more than 35 mm by flush low-depth.

For hollow-wall fixation, the kit **VZ405N** can be used. Minimal hole dimensions for hollow-wall mounting should be 551 mm width x total height – 30 mm (example: 1257 x 551 mm by FU72DN). See needed dimensions for flush hole below.

Flush fixation with hollow-wall kit VZ405N

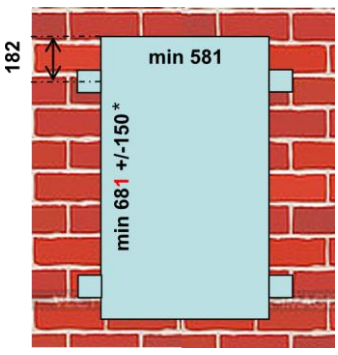
Hollow-wall opening dimensions:

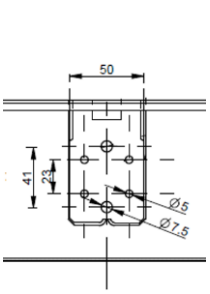


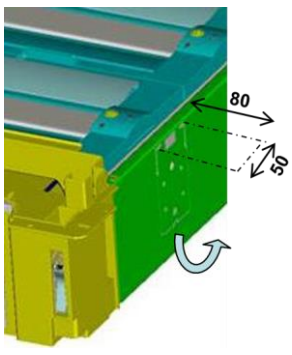
* = 3 rows

Flush fixation with side plates

Wall opening dimensions:



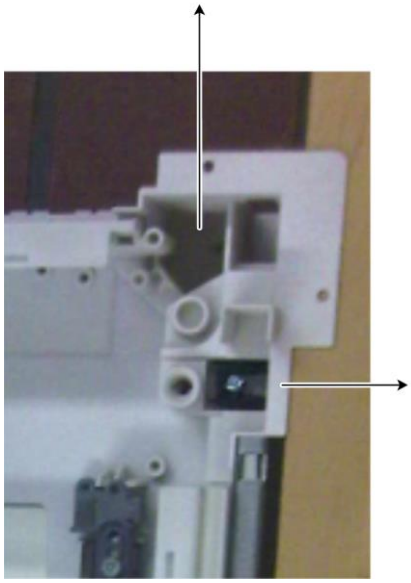




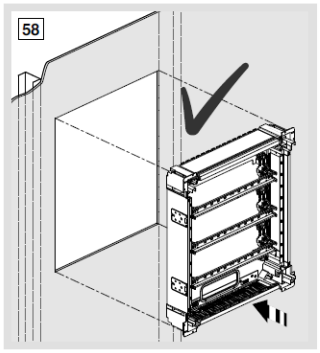
Side plates to bend out with screwdriver

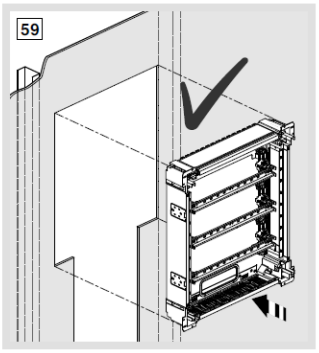
* = 3 rows

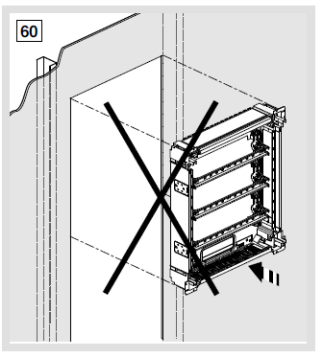
Kit VZ405N can be mounted horizontally or vertically until 30 mm wall thickness:

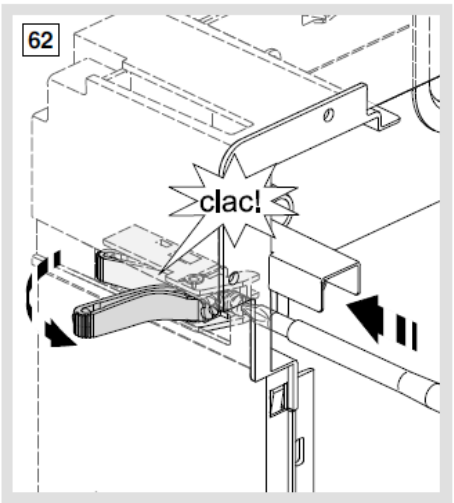


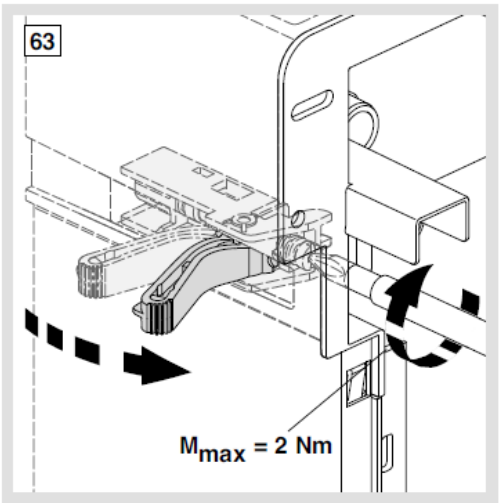
For hollow-wall installation it is recommended to support the lower edge of the enclosure by an accordingly designed opening, see following pictures. This ensures a good fixation over the years.





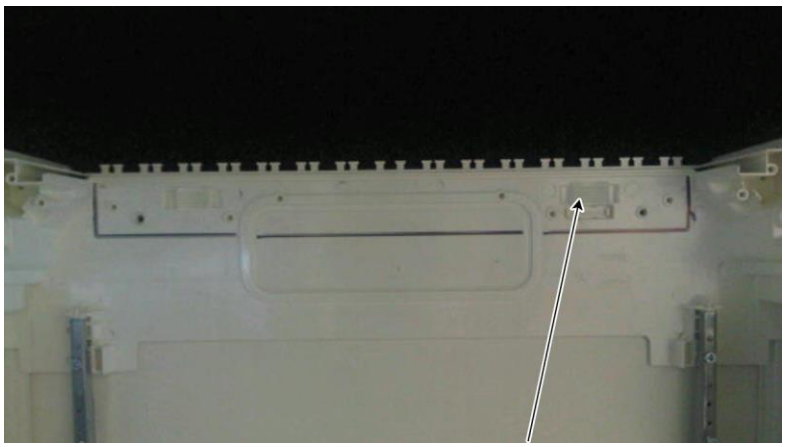




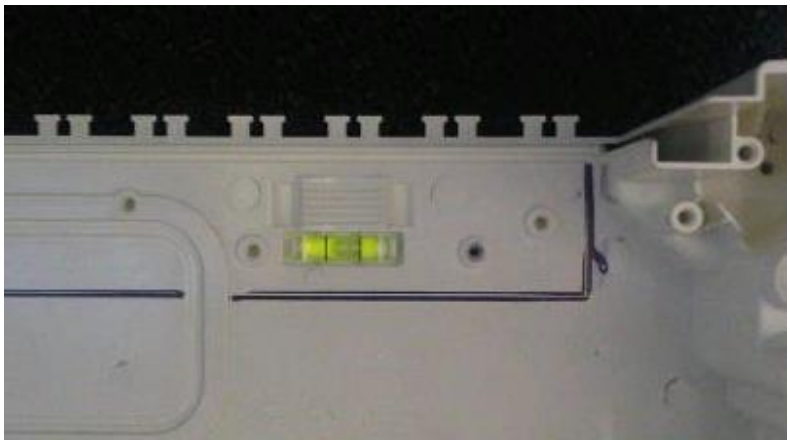


It is recommended to screw-in kit VZ405N with max. 2 Nm torque.

Another new feature in New VegaD flush enclosures is the possibility to cut out the plastic top/bottom part for inserting back panel in a hollow-wall with cable arrivals both sides top/bottom. It is only possible with an added opening in back panel. For this, a line has been designed on the plastic part (black line on the picture), so that the installer can follow it with a cutter and needs only to cut out plastic.

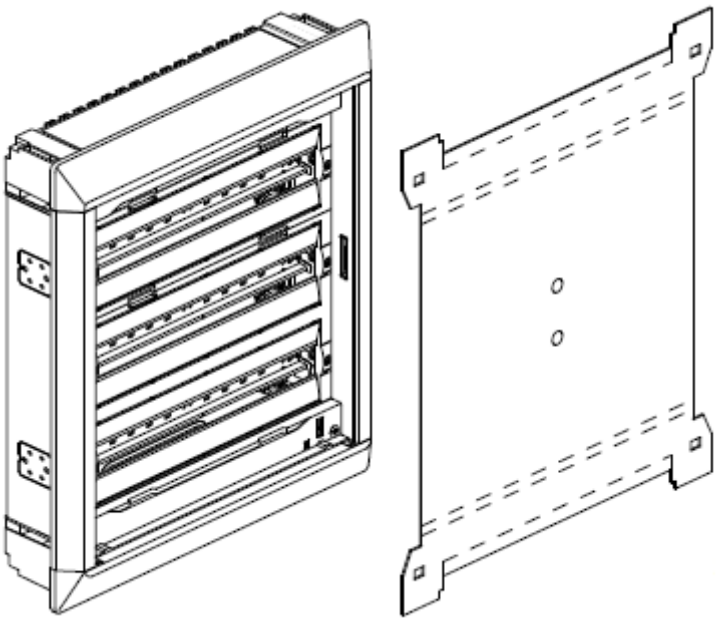


As for surface enclosures, a mounting hole has been created in top/bottom plastic part from back panel for inserting a special water level. This level can be removed with a flat screwdriver. Water levels can be ordered by Market Area at production site in Blieskastel (Germany).

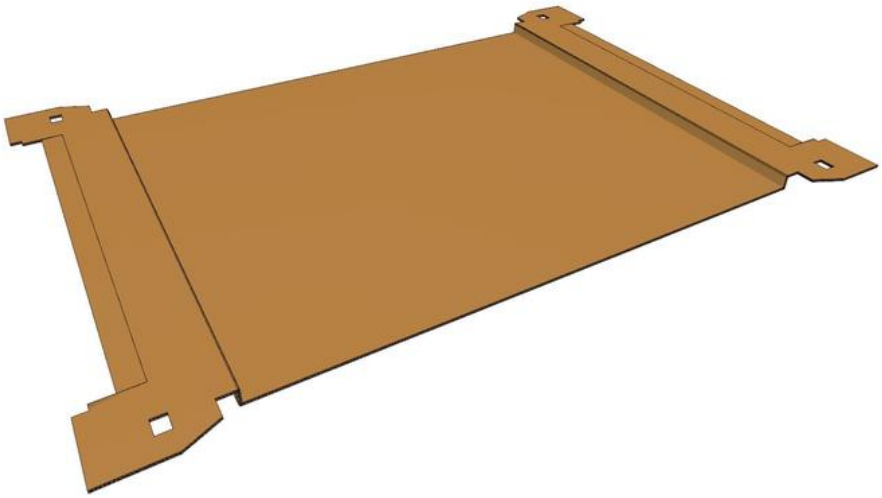


8.3 Plaster protection in flush enclosures

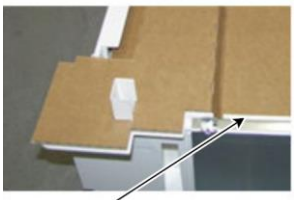
Each flush enclosure is delivered with a plaster protection cardboard to fix on back panel.



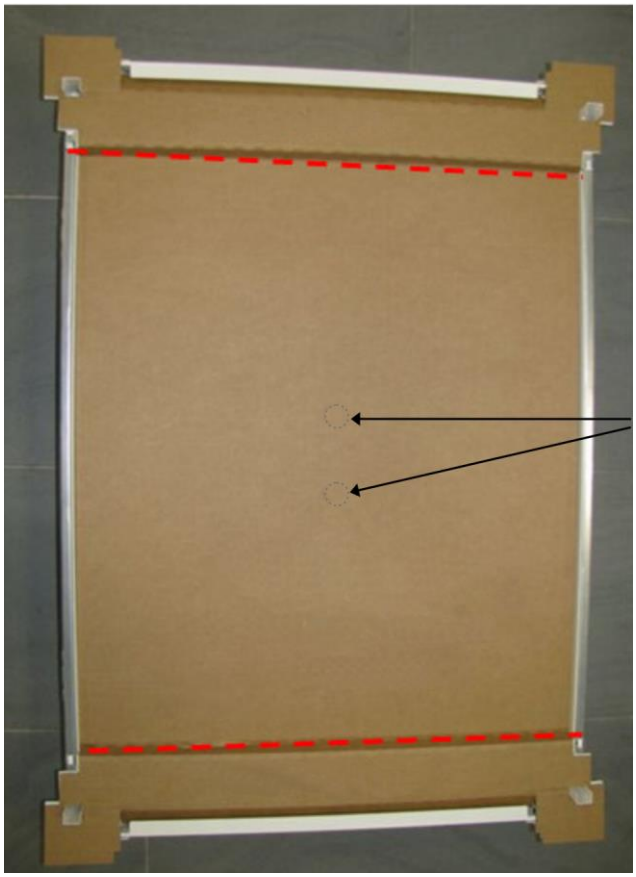
Cardboard protection is the same for flush low-depth and flush high-depth, but has to be bent and may have to be turned 180° depending on flush depth to protect.



Flush high depth:
bending to exterior side



Flush low depth:
bending to interior side



red = bending line

2 x pre-perforated holes
for finger taking

red = bending line

Example of flush low-depth enclosure protection against plastering

9 Technical data & certifications

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9.1 Technical data

Product fulfils the reqirements of:

- DIN EN 61439-1:2012-06, EN 61439-1, IEC 61439-1:2011, VDE 0660-600-1:2012-06
- DIN EN 61439-3:2013-02, EN 61439-3, IEC 61439-3:2012, VDE 0660-600-3:2013-02

Rated operational voltage and frequency:	400 / 230 V AC, 50 Hz
Rated current:	up to 160 A
Protection class:	Class II
Protection degree (of surface enclosures):	IP30 without door IP41 with door
Protection degree (of flush enclosures):	IP30 without door IP40 with door
Indoor and/or outdoor installation	for indoor installation

Data for air / leakage distance (clearance and creepage distances)

Overvoltage category:	III
Pollution degree:	3
Rated insulation voltage (U_i):	AC 400 V
IK Codes:	IK08 with door IK07 without door

Glow wire test according DIN EN 60695:

- 960 °C for active parts
- 850 °C for flush plastic parts mounted behind wall-surface
- 750 °C for other parts (European minimum requirement is 650 °C, but French prescription for public buildings requires 750 °C)

PVC content:

All plastic parts from enclosure are halogen-free, excepted paper strip holders (PVC).

All FD accessories are halogen free except cable trunking FD00T1. Halogen free trunking exist under reference number FD00T2.

9.2 Power loss

9.2.1 Power loss for standard surface enclosures

Enclosure				Permissible power loss P_{perm} for standard surface enclosure					
Type	Height H	Width B	Depth T	Surface mounted with temperature rise Δt					% Enclosure height
				10 K	15 K	20 K	25 K	30 K	
	mm	mm	mm	W	W	W	W	W	
FD22...	450	500	193 (Depth installation room 135 mm)	15,0	24,8	35,4	46,8	58,7	75
				17,9	29,7	42,4	56,0	70,2	50
FD32...	600			17,7	29,4	42,0	55,4	69,5	75
				22,2	36,8	52,7	69,5	87,2	50
FD42...	750			20,6	34,1	48,8	64,4	80,7	75
				26,5	43,8	62,7	82,7	103,8	50
FD52...	900			23,5	38,9	55,6	73,4	92,1	75
				30,6	50,7	72,6	95,8	120,1	50
FD62...	1050			26,4	43,7	62,5	82,5	103,5	75
				34,7	57,5	82,3	108,6	136,2	50
FD72...	1200			28,5	47,1	67,4	89,0	111,6	75
				39,3	65,0	93,0	122,7	154,0	50

9.2.2 Power loss for surface enclosures with ventilation openings FD00P5

Enclosure				Permissible power loss P_{perm} for enclosures with ventilation openings FD00P5					
Type	Height H	Width B	Depth T	Surface mounted with temperature rise Δt					% Enclosure height
				10 K	15	20 K	25 K	30 K	
	mm	mm	mm	W	W	W	W	W	
FD22...	450	500	150 (Depth installation room 135 mm)	19,0	31,5	45,0	59,4	74,5	75
				22,7	37,7	53,8	71,1	89,2	50
FD32...	600			22,7	37,6	53,7	70,9	89,0	75
				28,5	47,1	67,4	88,9	111,6	50
FD42...	750			26,6	44,0	62,9	83,0	104,1	75
				33,1	54,8	78,4	103,4	129,8	50
FD52...	900			32,9	54,4	77,8	102,7	128,9	75
				39,8	65,9	94,3	124,5	156,2	50
FD62...	1050			39,8	66,0	94,4	124,6	156,3	75
				48,6	80,5	115,2	152,0	190,7	50
FD72...	1200			46,7	77,3	110,6	145,9	183,1	75
				58,9	97,5	139,5	184,1	231,0	50

9.2.3 Power loss for flush low-depth enclosures

Enclosure				Permissible power loss P_{perm} for flush low-depth enclosures					
Type	Height H	Width B	Depth T	Flush mounted with temperature rise Δt					% Enclosure height
				10 K	15 K	20 K	25 K	30 K	
	mm	mm	mm	W	W	W	W	W	
FU22...	536 (450)	586 (500)	150 (Depth installation room 105 mm)	10,9	18,0	25,7	33,9	42,5	75
				13,2	21,9	31,2	41,2	51,7	50
FU32...	686 (600)			13,2	21,9	31,3	41,3	51,8	75
				16,7	27,7	39,7	52,3	65,7	50
FU42...	836 (750)			15,6	25,8	36,9	48,7	65,7	75
				20,2	33,5	47,9	63,2	79,3	50
FU52...	986 (900)			18,0	29,8	42,6	56,3	70,6	75
				23,6	39,1	55,9	73,8	92,6	50
FU62...	1136 (1050)			20,4	33,8	48,4	63,8	80,1	75
				27,0	44,7	63,9	84,3	105,8	50
FU72...	1286 (1200)			22,8	37,8	54,1	71,4	89,5	75
				30,3	50,2	71,7	94,7	118,8	50

9.2.4 Power loss for flush high-depth enclosures

Enclosure				Permissible power loss P_{perm} for flush high-depth enclosures					
Type	Height H	Width B	Depth T	Flush mounted with temperature rise Δt					% Enclosure height
				10 K	15 K	20 K	25 K	30 K	
	mm	mm	mm	W	W	W	W	W	
FU22...	536 (450)	586 (500)	182 (Depth installation room 105 mm)	11,4	18,9	27,1	35,7	44,8	75
				13,9	23,0	32,9	43,5	54,5	50
FU32...	686 (600)			13,9	22,9	32,8	43,3	54,3	75
				17,6	29,1	41,6	54,9	68,9	50
FU42...	836 (750)			16,3	27,0	38,6	51,0	64,0	75
				21,2	35,0	50,1	66,1	83,0	50
FU52...	986 (900)			18,8	31,1	44,5	58,8	73,7	75
				24,7	40,9	58,4	77,1	96,7	50
FU62...	1136 (1050)			21,3	35,3	50,4	66,6	83,5	75
				28,1	46,6	66,6	87,9	110,3	50
FU72...	1286 (1200)			23,8	39,4	56,3	74,4	93,3	75
				31,6	52,2	74,7	98,6	123,7	50

9.3 Certifications

9.3.1 VDE certification for standard DIN/EN 61439-1/-3

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG
MARKS APPROVAL

Hager Electro GmbH & Co. KG
Zum Gunterstal 6
66440 Blieskastel

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Niederspannungs-Schaltgerätekombination
Low-voltage switchgear and controlgear assembly
Serie Vega D

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 61439-1 (VDE 0660-600-1):2012-06; EN 61439-1:2011
DIN EN 61439-3 (VDE 0660-600-3):2013-02; EN 61439-3:2012
EN 61439-1:2011
EN 61439-3:2012

Aktenzeichen: 1996500-1494-0004 / 195161
File ref.:

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*

Ausweis-Nr. 40040057 Blatt 1
Certificate No. *Page*

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Offenbach, 2014-06-10

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http://www.vde.com/certificate

VDE

9.3.2 VDE CB certification for standard IEC 61439-1/-3

Test Report issued under the responsibility of:

VDE

TEST REPORT IEC 61439-3

Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons (DBO)

Report reference No. .....:	**195161-CC3-1**
Date of issue.....:	**2014-06-03 Total**
number of pages .....:	68
Applicant's name .....:	**Hager Electro GmbH & Co. KG**
Address.....:	**Zum Gunterstal 6; 66440 Blieskastel; Germany**
Test specification:	
Standard.....:	IEC 61439-3:2012 (First Edition) for use in conjunction with IEC 61439-1:2011 (Second Edition)
Test procedure .....:	CB Scheme
Non-standard test method .....:	N/A
Test Report Form No. .....:	IEC61439_3A **Test**
Report Form(s) Originator ....:	VDE
Master TRF .....:	Dated 2013-05

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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description.....:	**Low-voltage switchgear and controlgear assembly**
Trade Mark.....:	hager
Manufacturer .....:	**Hager Electro GmbH & Co. KG Germany**
Model/Type reference.....:	Vega D Serie
Ratings.....:	AC 400 V, 160 A, IP 30, IP 40, IP 41, IK 05, T 40…-5°C

VDE File No 1996500-1494-0004/195161
Testreport-195161-CC3-1.DOCX

9.3.3 LCIE certification for NF standard EN 61439-1/-3

Accréditation N°5-0014 Portée disponible sur www.cofrac.fr

LICENCE

LCIE N°: 662584

Délivrée à : *Delivered to:*	**HAGER ELECTRO GMBH & CO. KG** Zum Gunterstal 6 - 66440 Blieskastel - ALLEMAGNE
Site de fabrication : *Factory:*	**HAGER ELECTRO GMBH & CO. KG** **(1637MO)** Zum Gunterstal 6 - 66440 Blieskastel - ALLEMAGNE
Produit : *Product:*	Tableau de distribution *Distribution boards*
Marque commerciale (s'il y a lieu) : *Trade mark (if any):*	**HAGER**
Modèle, type, référence : *Model, type, reference:*	Gamme / *series* Vega D Références voir annexe / *references see annex*
Caractéristiques nominales et principales : *Rating and principal characteristics*:	Voir annexe / *see annex*
Informations complémentaires : *Additional information*:	Voir annexe / *see annex*
Le produit est conforme à : *The product is in conformity with*:	EN 61439-1:2011 EN 61439-3:2012
Documents pris en compte : *Relevant documents*:	Certificat d'essai OC / CB test certificate n°DE1- 54083 / TR n° 4195161-CC3-1
Annule et remplace (s'il y a lieu) : *Cancels and replaces (if necessary)*:	/

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Fontenay-aux-Roses, 2014-12-09

Date de fin de validité -
Limit expired date:

Rémi HANOT
Responsable de Certification
Certification Officer

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Laboratoire Central
des Industries Electriques
Une société de Bureau Veritas

33, av du Général Leclerc
BP 8
92266 Fontenay-aux-Roses cedex
France

Tél : +33 1 40 95 60 60
Fax : +33 1 40 95 86 56
contact@lcie.fr
www.lcie.fr

Société par Actions Simplifiée
au capital de 15 745 984 €
RCS Nanterre B 408 363 174

1-01

9.3.4 VDE certification for standard DIN/EN/IEC 62208 for empty enclosures

VDE Prüf- und Zertifizierungsinstitut

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MARKS APPROVAL

Hager Electro GmbH & Co. KG
Zum Gunterstal 6
66440 Blieskastel

ist berechtigt, für ihr Produkt /
is authorized to use for their product

"Leergehäuse für Niederspannungs-Schaltgerätekombinationen
Empty enclosures for low-voltage switchgear and controlgear assemblies

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DIN EN 62208 (VDE 0660-511):2012-06
EN 62208:2011
IEC 62208(ed.1)

Aktenzeichen: 1996500-9011-0002 / 206818
File ref.:

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*

Ausweis-Nr. 40042225 Blatt 1
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