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| Drywall Systems | 2012-05 |

Knauf alutop Access Panel
F-TEC Airtight / Dust-proof and Smoke-proof

Universal application in drywall partitions, furrings, solid walls and suspended ceilings without fire resistance

For cladding thickness up to 30 mm

Product description

Airtight, dust-proof and smoke-proof access panel (airtight and dust-proof class 4, DIN EN 1026+12207, suction and pressure / smokeproof following DIN 18095) for the installation in walls (drywall partitions, furrings, solid walls) and in suspended ceilings. Suitable for cladding thicknesses of up to 30 mm, consisting of

■ an anodised aluminium frame with openable and fully detachable hatch

■ flush bonded face board made of Knauf Diamant (for standard sizes)

■ seal

■ self-activating drop catch

Product range
■ F-TEC Airtight / Dust-proof and Smoke-proof for 12.5 / 18 / 25 / 30 mm cladding thickness

Additional options / special designs
■ Intermediate dimensions
■ Four-square bolt
■ Round cylinder lock
■ Lock designed for profile cylinder
■ Prepared for surface quality Q4 (on-site)
■ Prepared for on-site tiling

Properties

■ One type for ceilings and walls and for 4 different cladding thicknesses

■ Flush bonded Diamant face board, i. e. no filling is required for the hatch

■ Small opening displacement of the lock and low installation depth in the cavity

■ Suitable for subsequent installation in finished walls/ceilings

■ Standard type is also suitable for installation in solid walls

■ Accurately fitting with tiling in sanitary facilities

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Installation in Knauf Ceiling Systems

Scheme drawings - Dimensions in mm

E141.de-V1   Example: 12.5 mm cladding thickness

CD Channel (trimmer)

≥ 50 [1)]

Access panel

Knauf board

10   **Size**   10

Clearance
(= size - 35 mm)

≥ 25   **Opening dimension of cladding**   ≥ 25
≤ 100   *(= size + 2x 10 mm)*   ≤ 100

Vertical section

Size - 35 mm
= clearance

Notes

- Observe the enclosed installation instructions for the access panel
- Installation of
  - Ceiling systems
  - Wall systems
  - Furring systems
  acc. to Knauf Technical Data Sheet

Installation in Knauf Partition / Furring Systems

E141.de-V2   Example: Partition system with 12.5 mm cladding

≥ 50 [2)]

e.g. CW Stud

UW Runner (as a trimmer)

Knauf board

Access panel

≥ 25
≤ 100
10

Opening dimensions of cladding
(= size + 2x 10 mm)

Clearance
(= size - 35 mm)

Size

Vertical section

Possible cladding thicknesses

■ F-TEC Airtight / Dust-proof and Smoke-proof

12.5 mm   **18 mm**

Outer frame

Hatch

2x 12.5 / 25 mm   **2x 15 mm**

Metal tabs

Installation in solid walls

E141.de-V3

Solid wall
Plaster layer

9

Access panel

Opening dimensions of solid wall
(= size + 2x 9 mm)

Clearance
(= size - 35 mm)

Size

adjustable during installation

Vertical section

Cladding thickness		Sizes (w x h)	Weight
mm		mm	kg/piece
■ 12.5		■ 300 x 300	approx. 2.5
■ 18		■ 400 x 400	approx. 3.8
■ 2x 12.5 / 25		■ 500 x 500	approx. 5.2
■ 2x 15		■ 600 x 600	approx. 7.0
		■ 700 x 700	approx. 13.5
		■ 800 x 800	approx. 15.8
		Customized sizes on request	

Equipment options

Intermediate dimensions [3)]	■
Designed for on-site tiling	■
Prepared for surface quality Q4	■
Four-square bolt lock	■
Round cylinder lock	■
Lock designed for profile cylinder	■

1) Distance to basic ceiling / installations
Opening displacement clearance of the access panel
3) Size min. 300 x 300 mm; max. 800 x 800 mm

■ Approved airtightness up to 600 Pascal, overpressure or underpressure
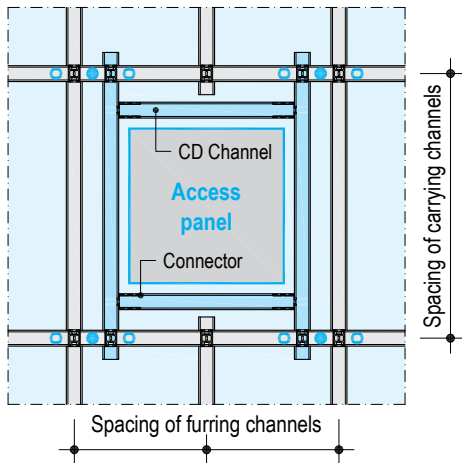
Examples (Scheme drawings)

Installation in Knauf Ceiling Systems
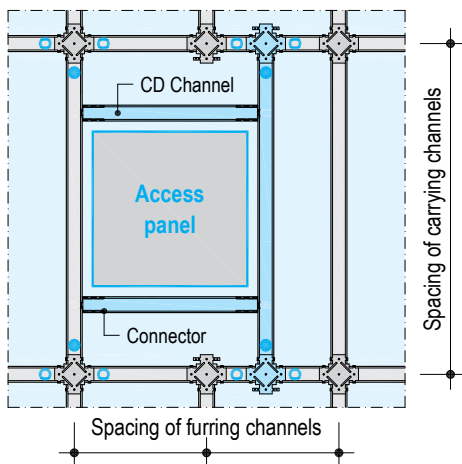
▬ **Additional substructure**
● **4 additional suspensions (e.g. Nonius Suspension)**
○ Alternative suspension points

Universal connectors are required for the trimmings.
If suspended channels need to be cut and replaced by an
additional trimmer channel, additional suspenders are necessary

■ Double-level metal grid (e.g. D112.de)

CD Channel
Access panel
Connector
Spacing of carrying channels
Spacing of furring channels

■ Flush metal grid (e.g. D113.de)

CD Channel
Access panel
Connector
Spacing of carrying channels
Spacing of furring channels

Installation in Knauf Partition / Furring Systems

▬ **Additional substructure or trimming**
Depending on the type and installation situation of the access panels,
trimmer profiles or frames made of profiles are necessary.

Subsequent installation in walls is necessary
If the installation of the access panel is performed at a later time, the
cladding is sawed out. Apply frame made of circumferential profile
pieces (UW or CW) and screw attach (screw spacing ≤ 150 mm).

■ Stud spacing -a- continuous

Access panel
UW Runner
e.g. CW Stud
a   a   a
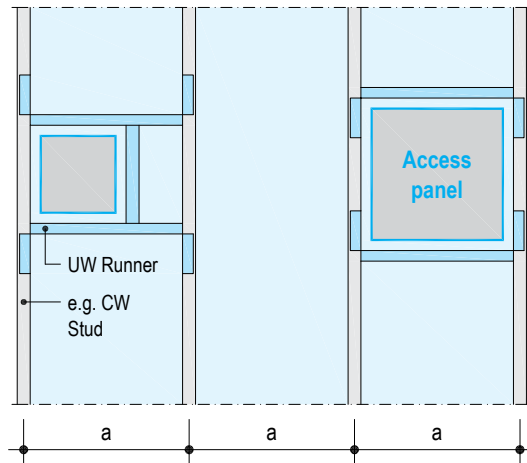
■ Stud spacing -a- with cut stud and trimmer profiles
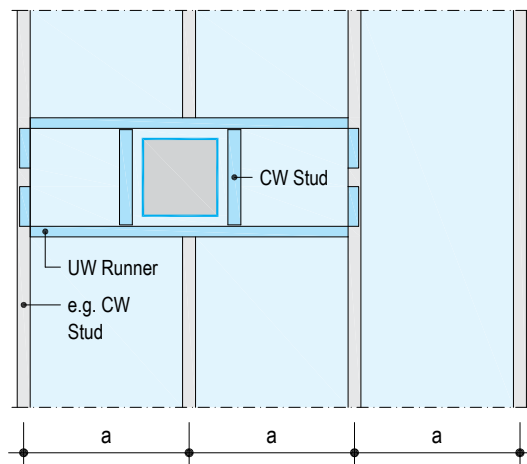
CW Stud
UW Runner
e.g. CW Stud
a   a   a

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Order information

Required specifications for ordering:

- Size of the access panel (w x h)
- Mounting component, e.g., ceiling, partition....
- Additional options: see page 2
- Access panels for tiling:
  Specify tile dimensions, joint width, adhesive thickness, tile thickness and cladding thickness. The exact clearance is determined through the tile format.

Construction

Select access panels considering cladding thickness of the Knauf systems. Knauf alutop Access Panels consist of a firm outer aluminium frame, and an openable and fully detachable hatch. F-TEC Airtight / Dust-proof and Smoke-proof are equipped with flush bonded face board made of Knauf Diamant hard gypsum board. Outer frame and hatch of the access panels are reinforced on the rear side using corner connectors. The hatch is fixed flush with the outer frame using special Knauf alutop locks and hinge brackets. A joint width of only approx. 1.5 mm is visible between the outer frame and the hatch when fully mounted.

With rectangular ceiling access panels, the lock and hinge system is always mounted on the long side. With access panels for partitions the lock is always on top while the hinges are on the bottom side.

Installation requires additional substructure or trimmer profiles. The access panels are suitable for subsequent installation in finished walls/ceilings.

The use of round cylinder or profile cylinder locks and four-square bolting is optional.

Installation

Installation of access panels as per accompanying application instructions, installation of Knauf Systems in accordance with relevant current Knauf Technical Data Sheets. Use drywall screws TB for the attachment of the frame to the cladding (two screws per metal tab). CAUTION: The required length of the screws is determined by the cladding thickness. Apply at least 1 metal tab per frame side (2 on the lock side) for panel size ≤ 400x400 mm, at least 2 per frame side for panel size ≤ 600x600 mm and at least 3 per frame side for panel size ≤ 800x800 mm. No board joints of the cladding are allowed near the access panels.

With wall access panels, a clearance of ≥ 50 mm must be ensured in the upper third of the rear side of the hatch for opening the panel. It is possible to install the access panel at the same time as the substructure or after the cladding application. Cut out opening 20 mm (18 mm in solid walls) larger than the access panel size (Size - 35 mm = clearance).

Install additional trimmers made of CD, CW or UW profiles based on the dimensions of the access panel, maintain distances between cutout section and trimmer profiles of ≥ 25 mm and ≤ 100 mm. Mount 4 additional suspenders in the corner are-

as of the access panel in ceilings. More additional suspenders are required for replacing suspended ceiling profiles.

Place outer frame of the access panel in the opening, lay it on the cladding, align and screw attach. Subsequently insert hatch and check lock for proper functioning. If the distance to the installations in the wall or ceiling is < 200 mm, it is necessary to perform the installation of the outer frame in the gypsum board before the cladding.

- Refer to the enclosed installation instructions.

Jointing

Fill outer frame of access panel and the ceiling/wall surface fully with Uniflott.

It is not necessary to fill or skim the hatch face when using in case of flush bonded gypsum boards and surface quality Q2. For surface quality level Q3: Scrape skim hatch face. Preparation for quality level Q4 on request. Clean outer frame, hatch, and particularly seal thoroughly after filling.

Installation in solid walls: Mount outer frame with plaster.

Surface treatment

For surface treatment of the access panels with gypsum board face follow Knauf Technical Data Sheet for the respective system.

Note for access panels prepared for painting:
Tile application is only permissible with thin-bed method. Fill joint between cladding and outer frame after installation of the access panel. The edge of the wall tile can be directly applied on the clearance dimension. Install seal (included).

Note for the painter
Generally remove the access panel hatch before coating and paint separately so that no paint penetrates the narrow joint between the hatch and the outer frame. Thoroughly clean outer frame, hatch, and particularly the seals.

The stated constructional and structural design specifications and characteristics of building physics of Knauf systems can only be achieved with the exclusive use of Knauf system components, or other products expressly recommended by Knauf.