MANDÍK

MAN 165/23
Version 2026-11-04

Installation frames E5,R7

FDMQ and FDMR

Installation manual

Installation in gypsum wall under flexible ceiling



MANDÍK®
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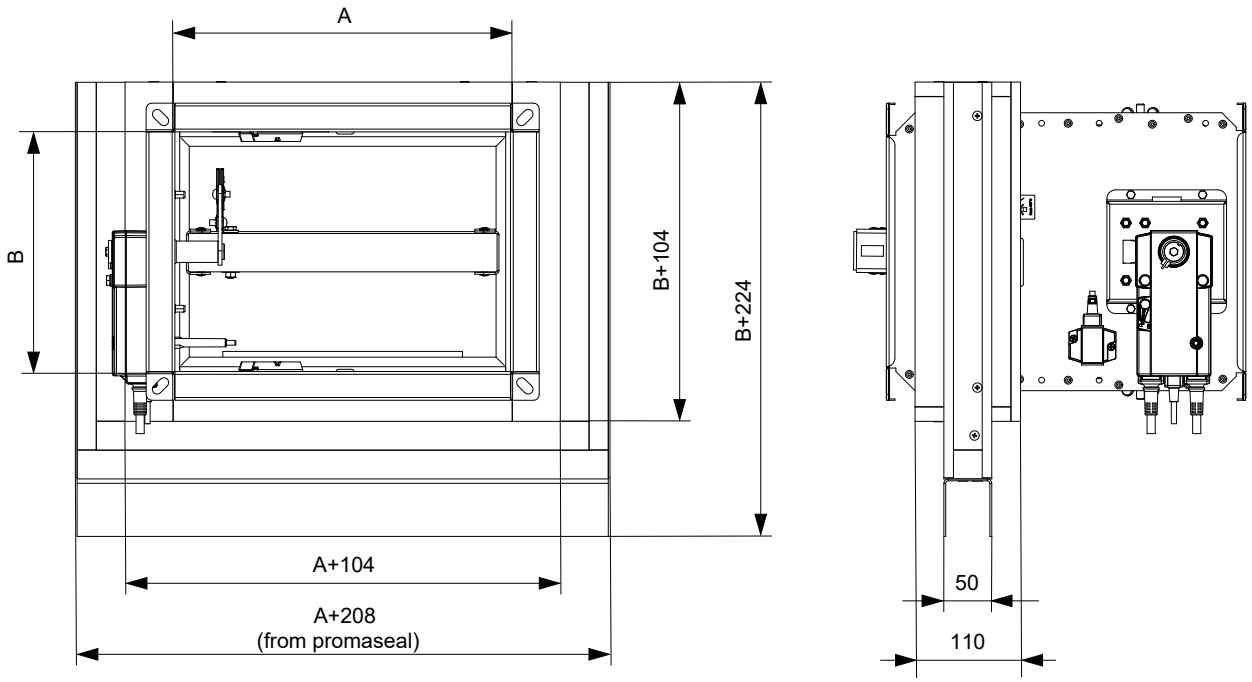
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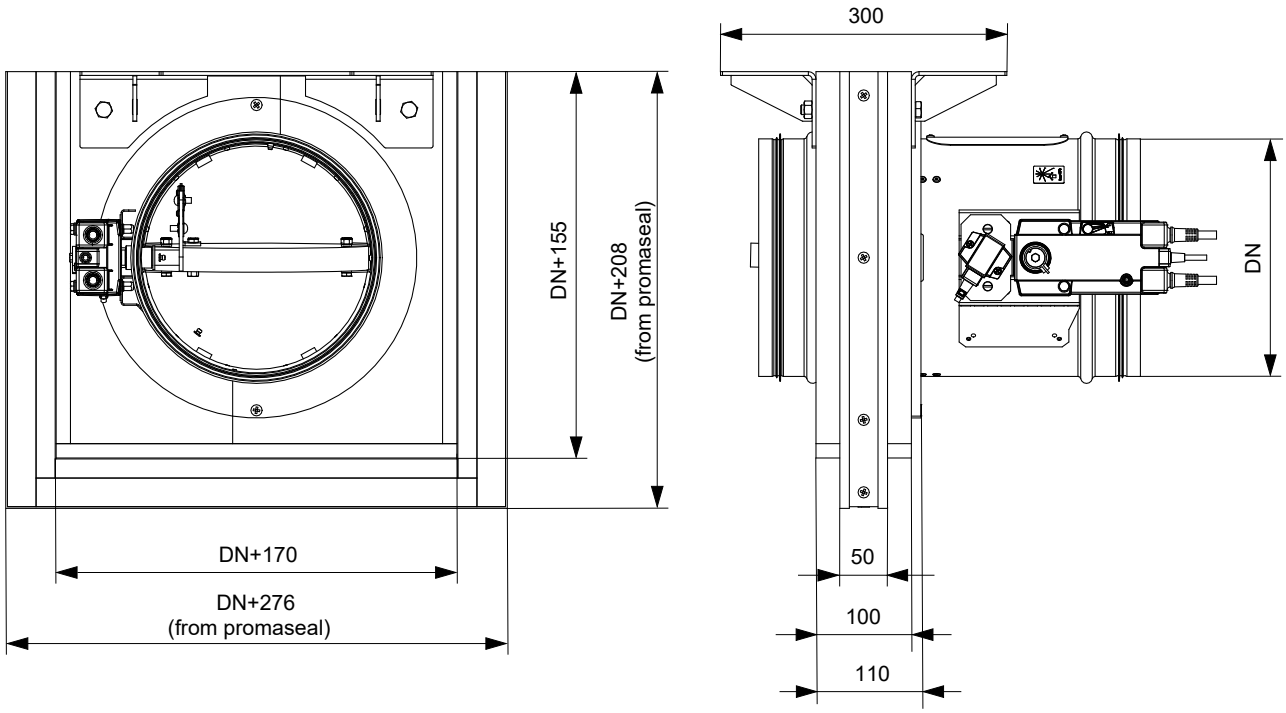
I. GENERAL

Frames dimensions

Installation frame E5 for FDMQ



Installation frame R7 for FDMR



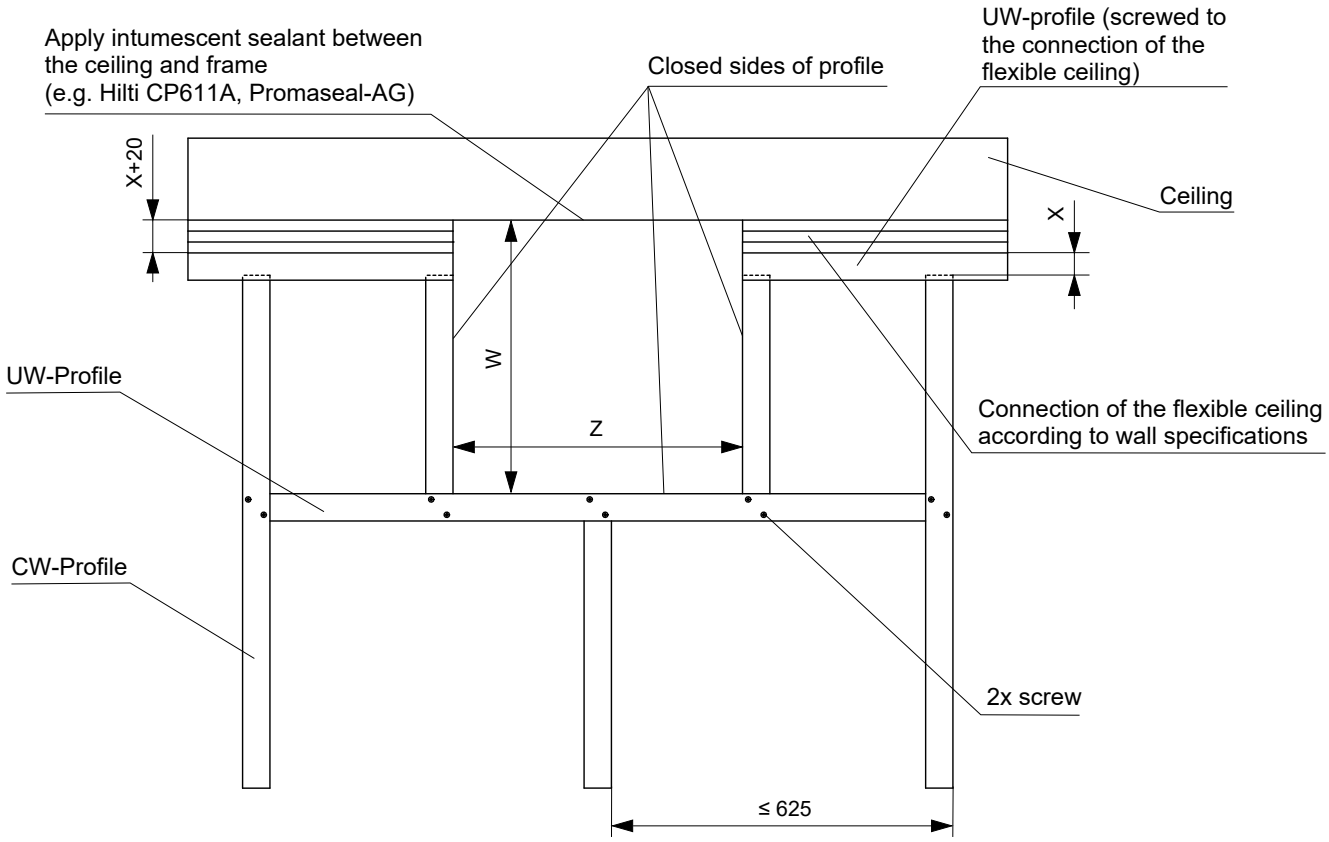
II. INSTALLATION

Description

- Installation frame E5 and R7 are designed for installation without additional sealing of the penetration for:
  - Installation in gypsum walls under flexible ceilings with a maximum movement of 40 mm
- For wall thicknesses of 100 or ≥ 115 mm
- Position of the damper can be directly on the ceiling or at a distance of max. 80 mm from the ceiling
- E5 and R7 installation frames are designed with "sliding rails" on the sides of the frame that move in the lightweight wall so that the damper, which is attached to the ceiling, can move a maximum of 40 mm
- On the sides of the frame is Promaseal-LX SK, which fills the gap between the frame and the construction in the event of a fire

Wall preparation

Installation directly on the ceiling



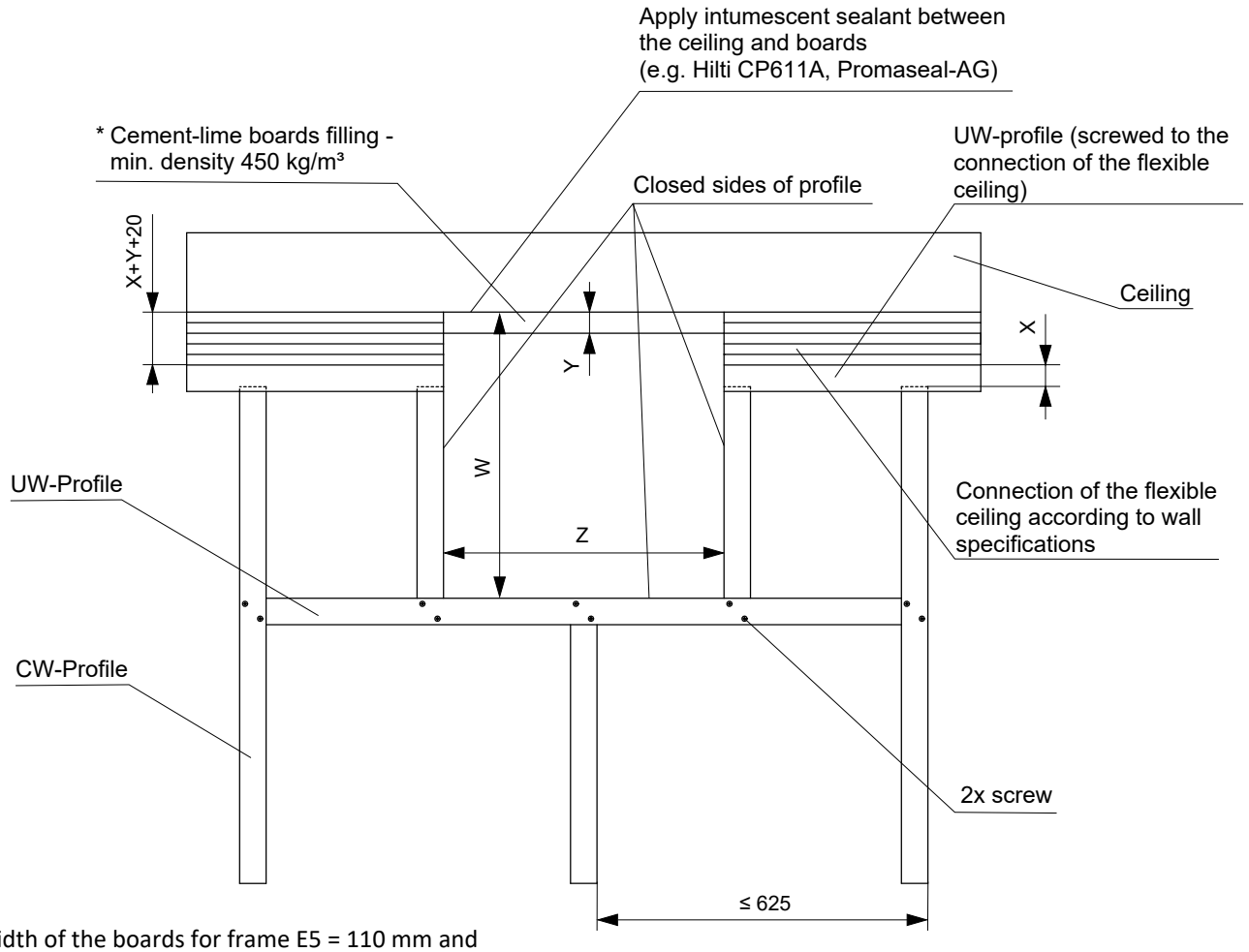
- X = ceiling movement ≤ 40 mm

Installation frame	W [mm]	Z [mm]
E5	B + 224 + X	A + 208 + (2 x F)
R7	DN + 208 + X + F	DN + 276 + (2 x F)

- F = gap between frame (promaseal) and profile = 2 to 5 mm

- Gypsum construction must be made in accordance with the specifications of the wall system manufacturer
- There is no need for a side profile to always be fixed in the ground and to always run in one piece to the ceiling. Multiple profiles can be used with the necessary screw connection

Installation at a maximum distance of 80 mm from the ceiling



* Width of the boards for frame E5 = 110 mm and for frame R7 = 100 mm

- X = ceiling movement ≤ 40 mm
- Y = distance of frame from ceiling max. 80 mm

Installation frame	W [mm]	Z [mm]
E5	B + 224 + X + Y	A + 208 + (2 x F)
R7	DN + 208 + X + Y + F	DN + 276 + (2 x F)

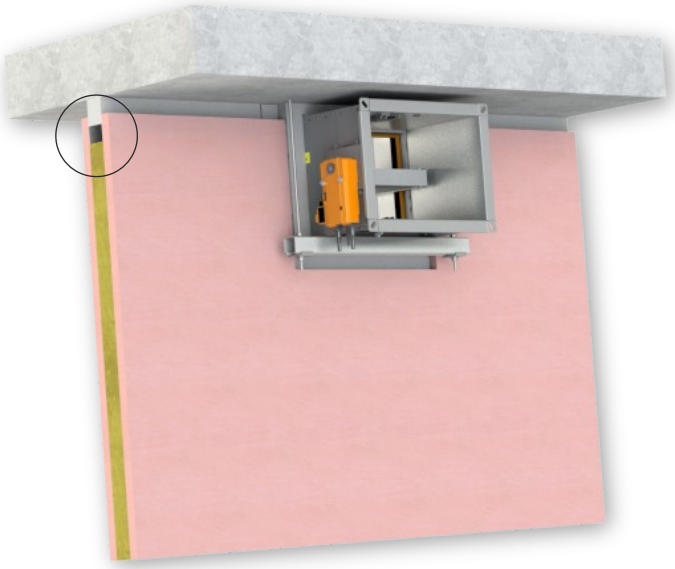
- F = gap between frame (promaseal) and profile = 2 to 5 mm

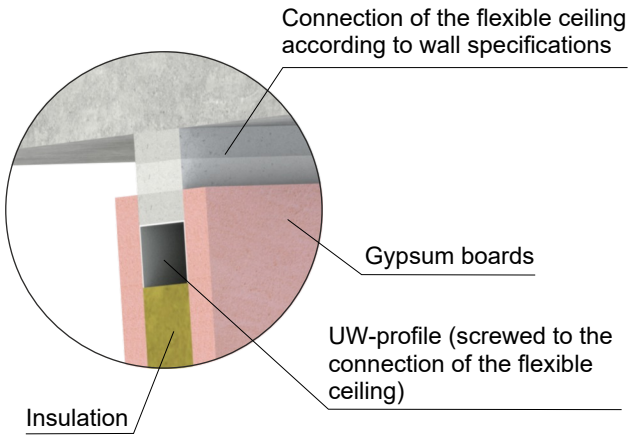
- Gypsum construction must be made in accordance with the specifications of the wall system manufacturer
- There is no need for a side profile to always be fixed in the ground and to always run in one piece to the ceiling. Multiple profiles can be used with the necessary screw connection

Finishing the walls

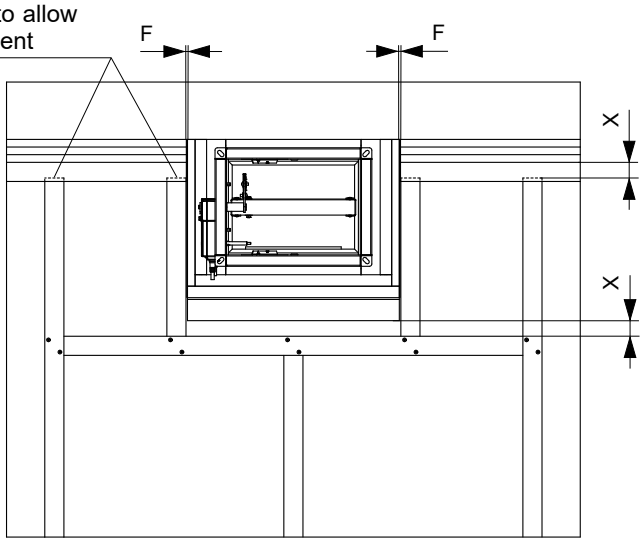
- Fill the wall with insulation according to the type of gypsum construction
- Finally, cover the wall with gypsum boards. A larger opening must be cut in thegypsum boards than the installation frame so that the frame can move without damaging the wall
- In case of wall thickness ≥ 115 mm, cladding of the frame is necessary→ see page 8 and 10

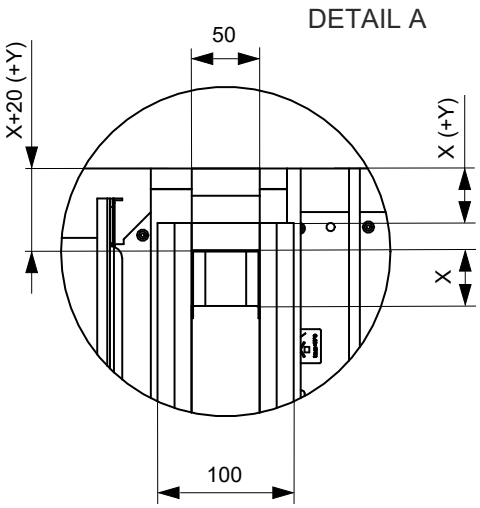
Installation frame E5 - wall thickness 100 mm



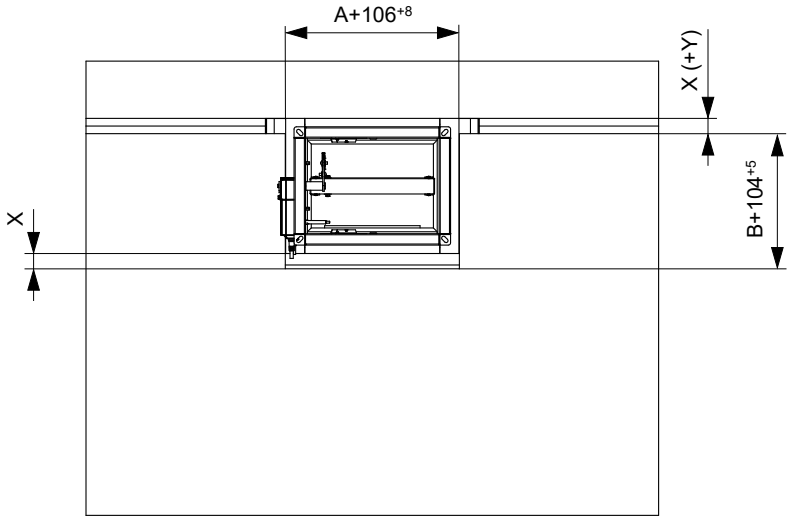


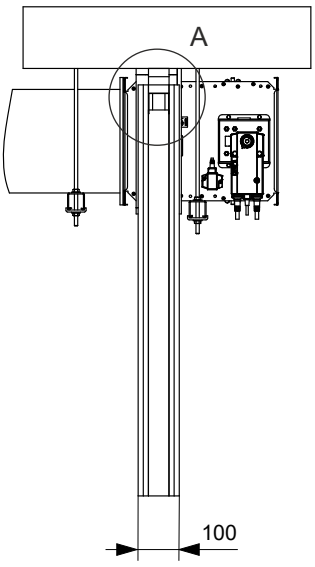
Slide into the UW-profile to allow movement





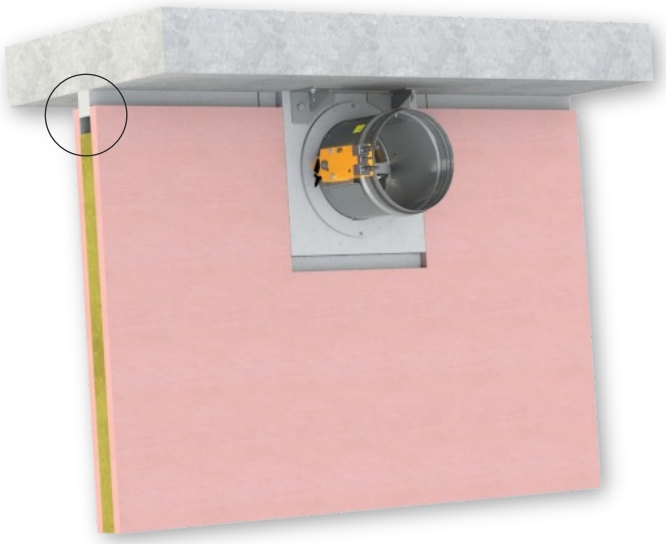
Finishing with gypsum boards

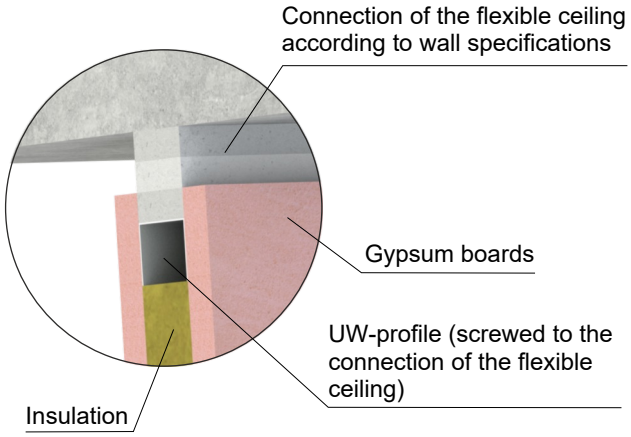


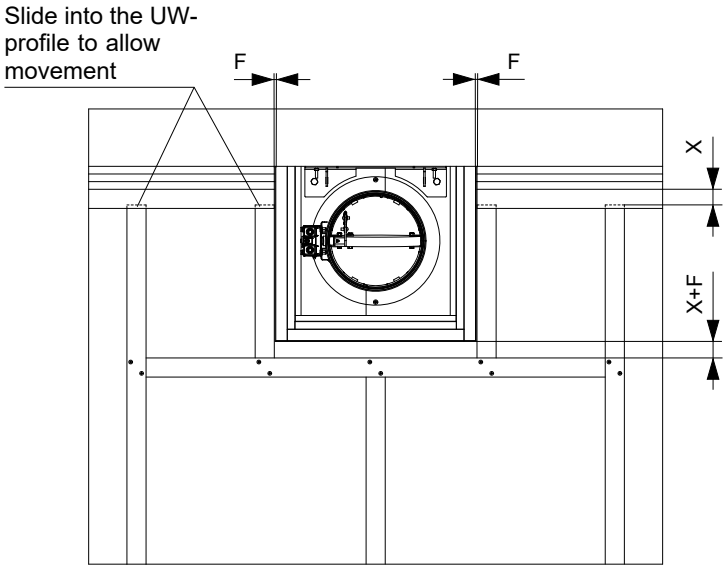


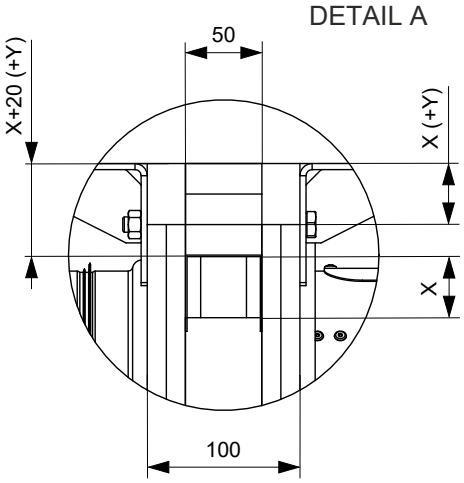
- X = ceiling movement ≤ 40 mm
- F = gap between frame (promaseal) and profile = 2 to 5 mm
- Y = only when the frame is at a distance from the ceiling (max. 80 mm) → see page 5

Installation frame R7 - wall thickness 100 mm

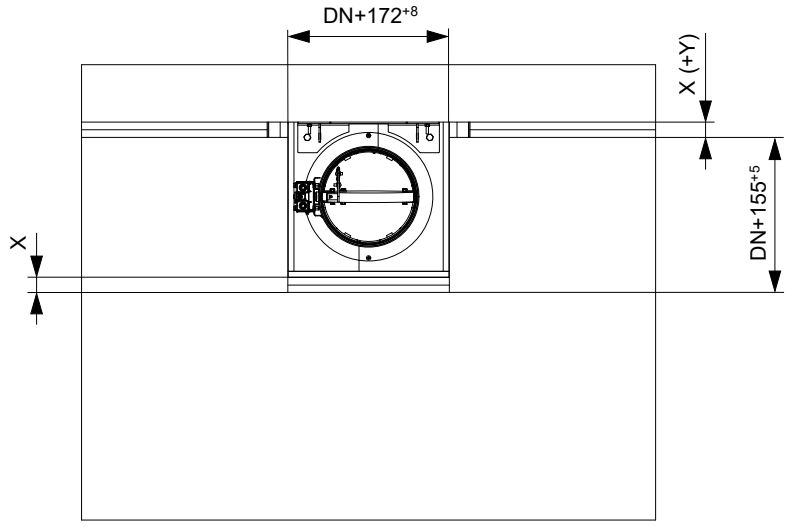


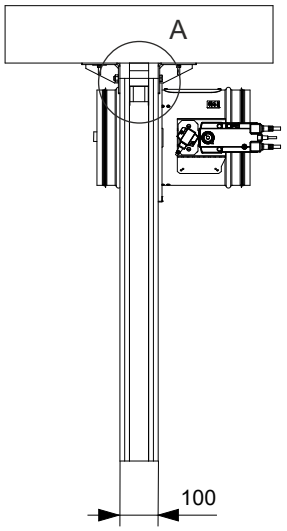






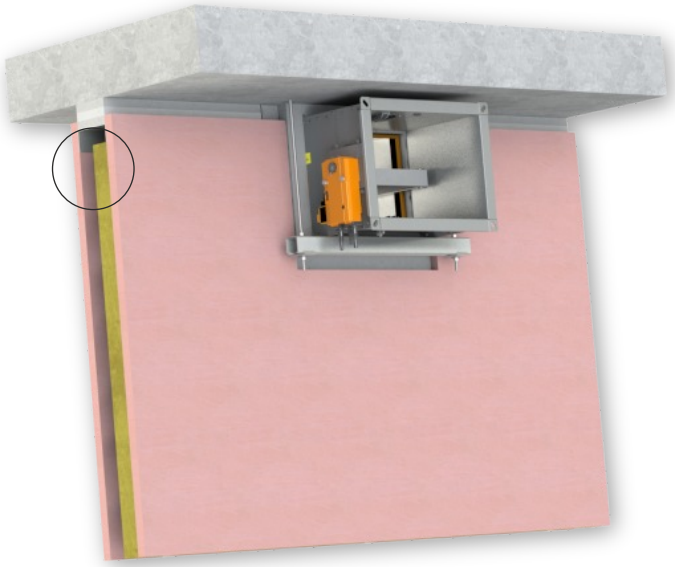
Finishing with gypsum boards

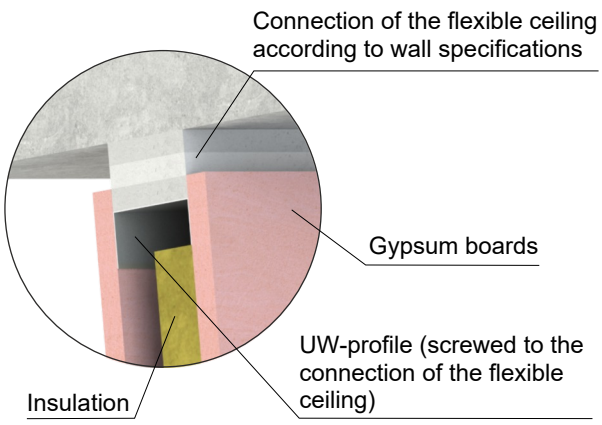


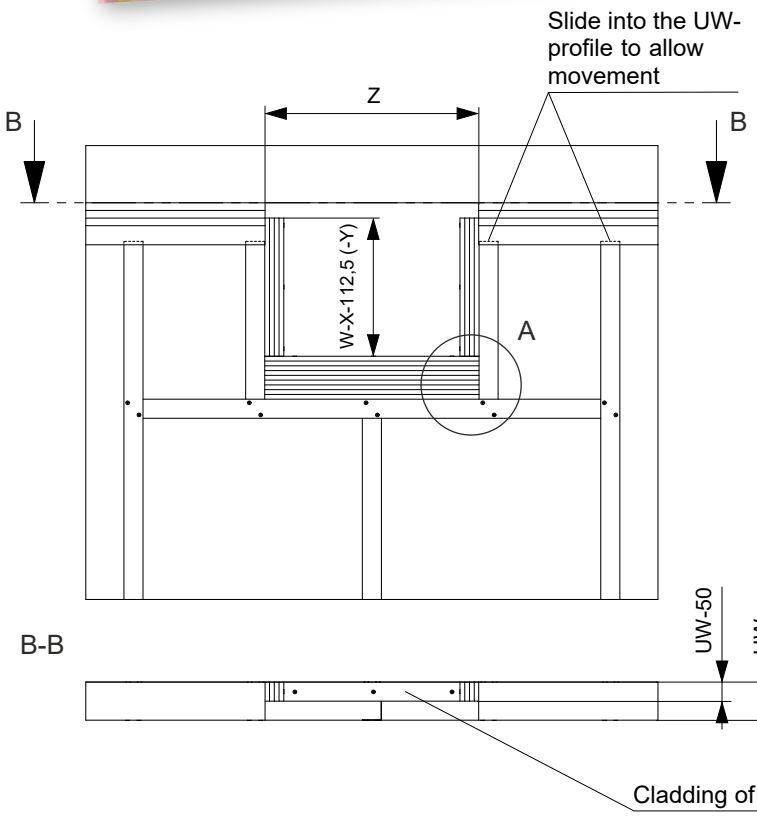


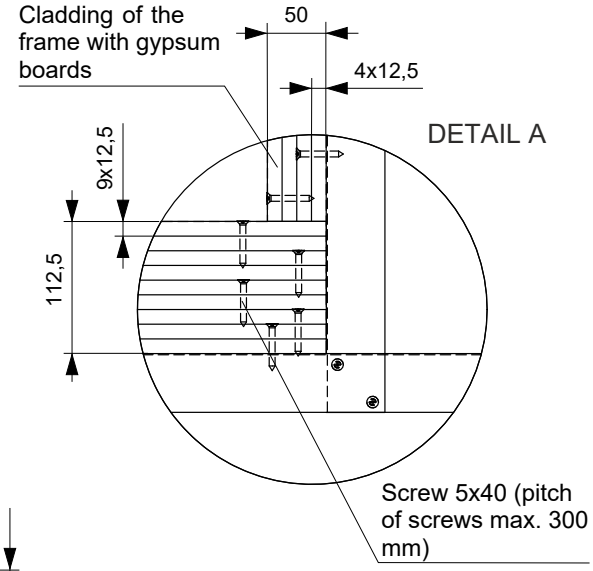
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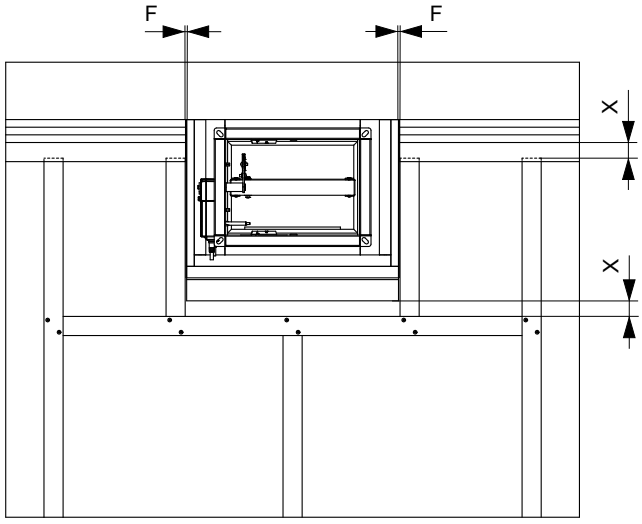
Installation frame E5 - wall thickness ≥ 115 mm





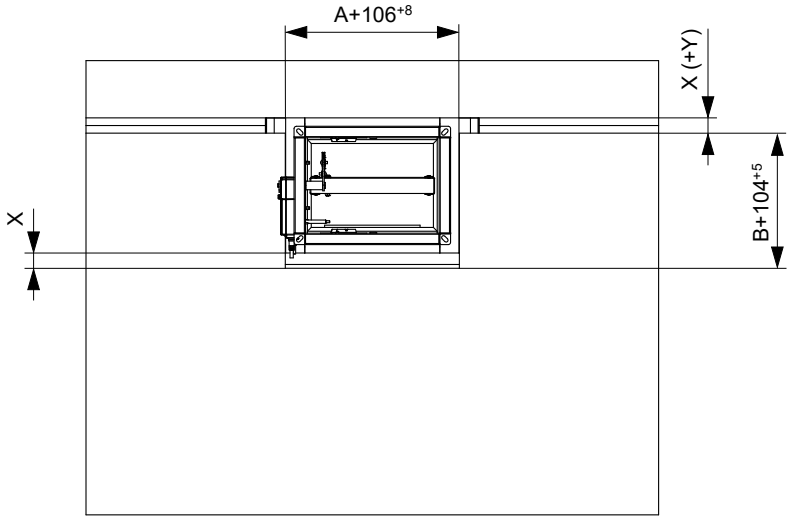


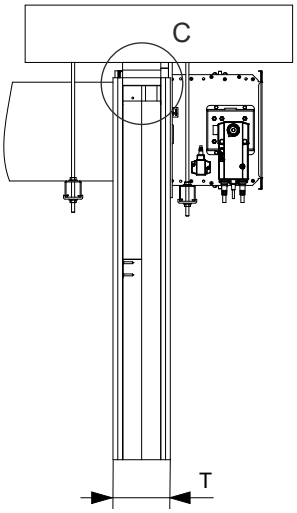




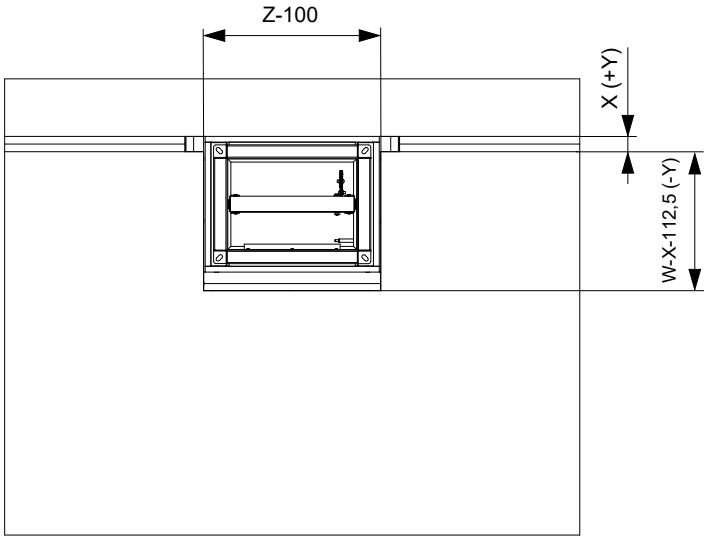
- X = ceiling movement ≤ 40 mm
- F = gap between frame (promaseal) and profile = 2 to 5 mm
- Y = only when the frame is at a distance from the ceiling (max. 80 mm) → see page 5
- W = → see page 4-5
- Z = → see page 4-5
- UW = UW-profile width ≥ 65 mm

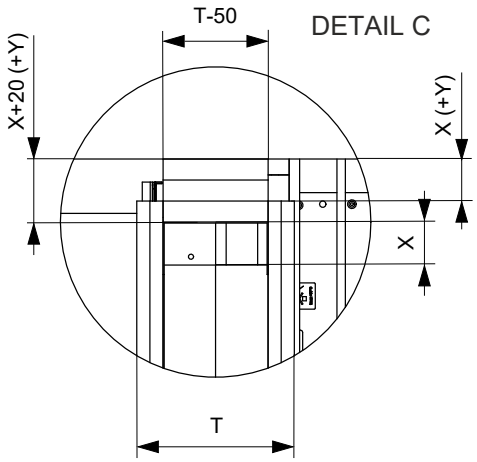
Finishing with gypsum boards - front side

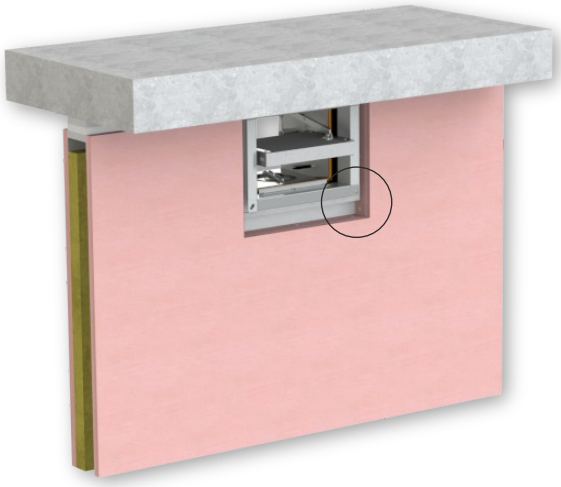


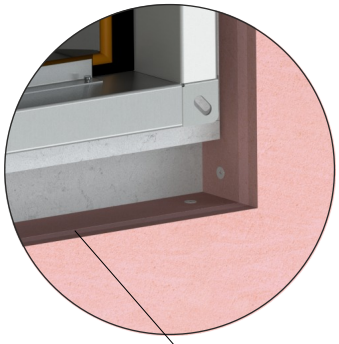


Finishing with gypsum boards - back side





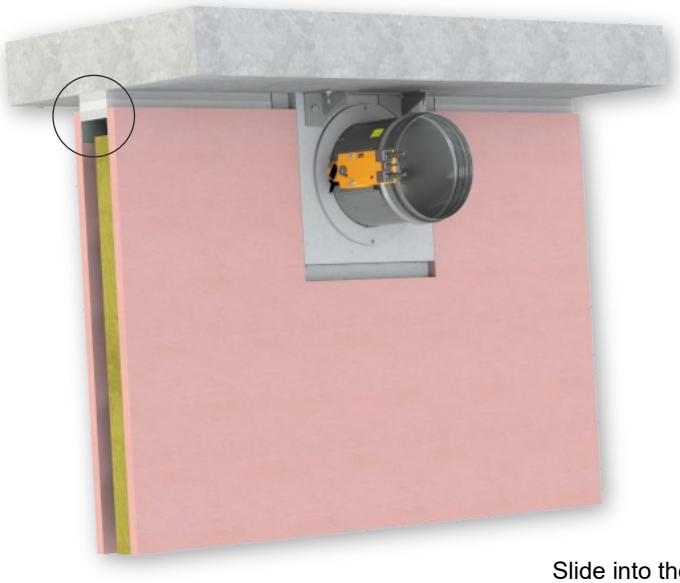


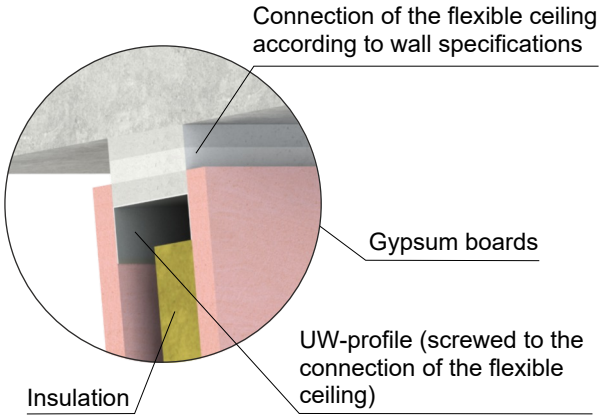


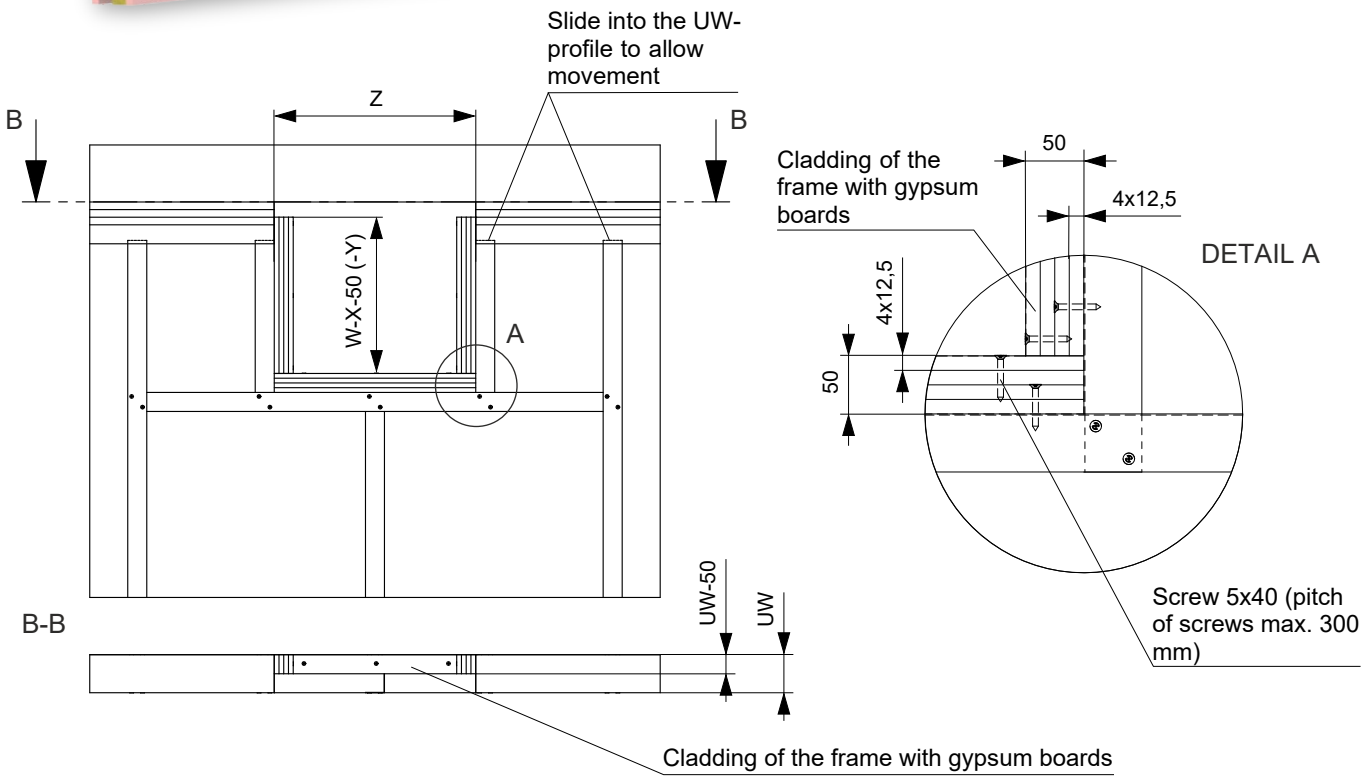
Opening in the gypsum boards at the back side ends with the cladding of the frame

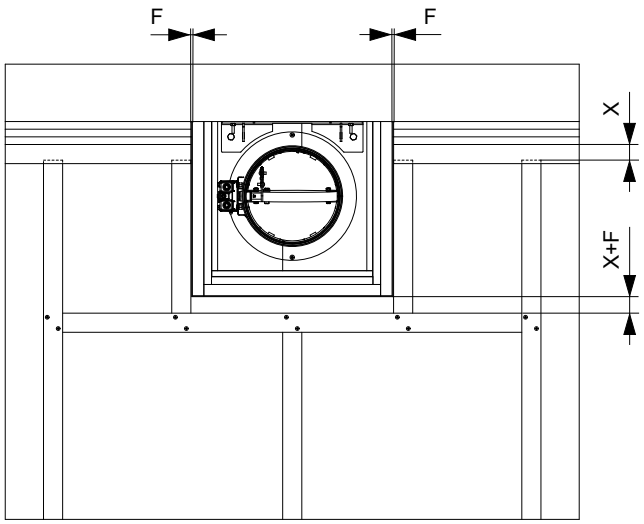
- X = ceiling movement ≤ 40 mm
- W = → see page 4-5
- Z = → see page 4-5
- Y = only when the frame is at a distance from the ceiling (max. 80 mm) → see page 5
- T = wall thickness ≥ 115 mm
- For rules of finishing the walls → see page 12

Installation frame R7 - wall thickness ≥ 115 mm



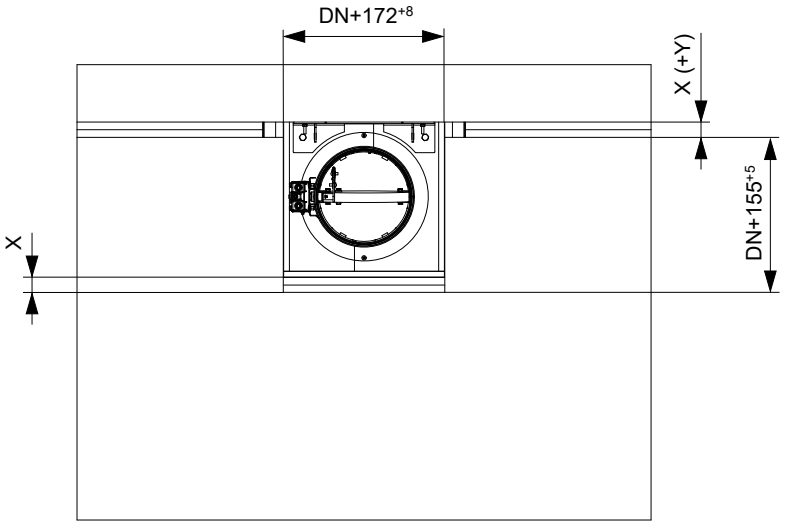


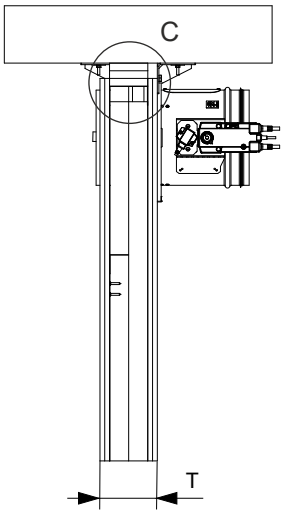




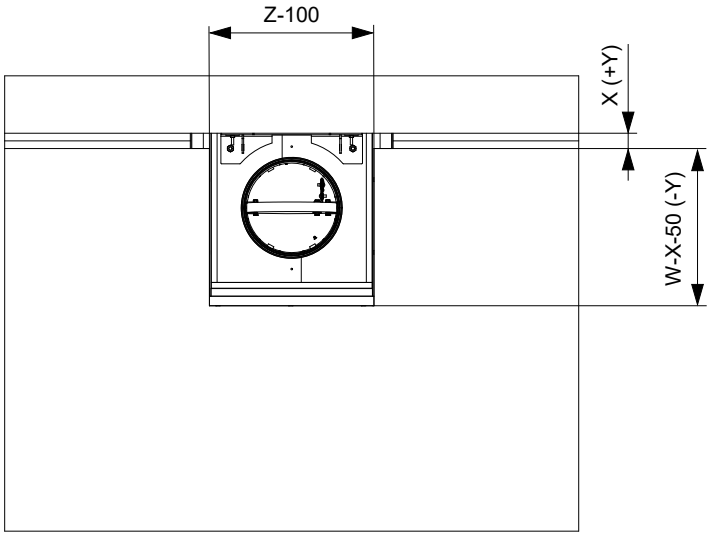
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- W = → see page 4-5
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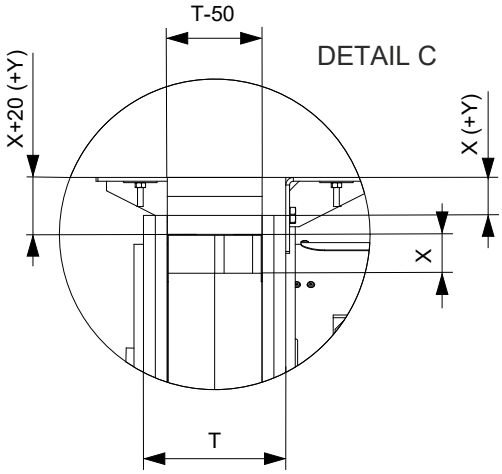
Finishing with gypsum boards - front side

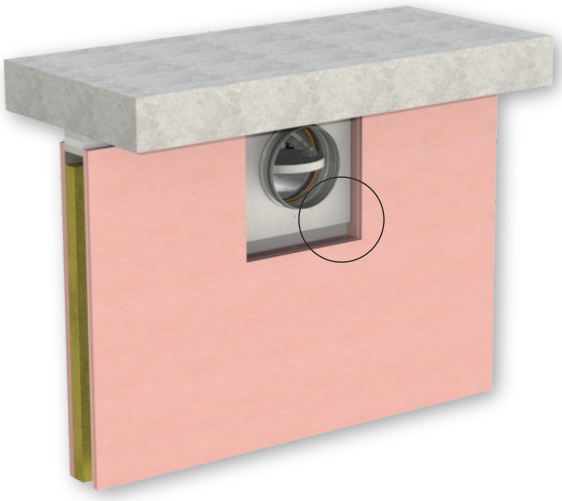


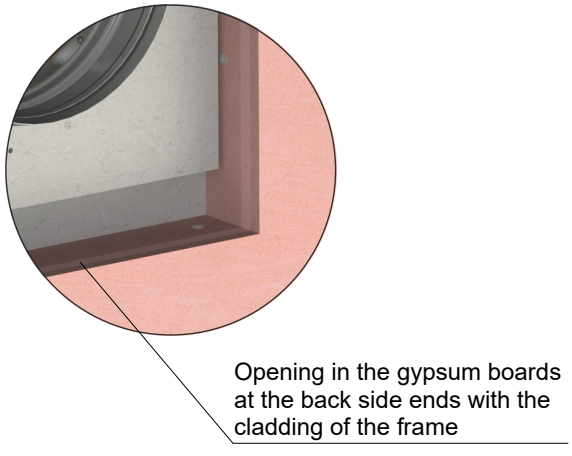


Finishing with gypsum boards - back side







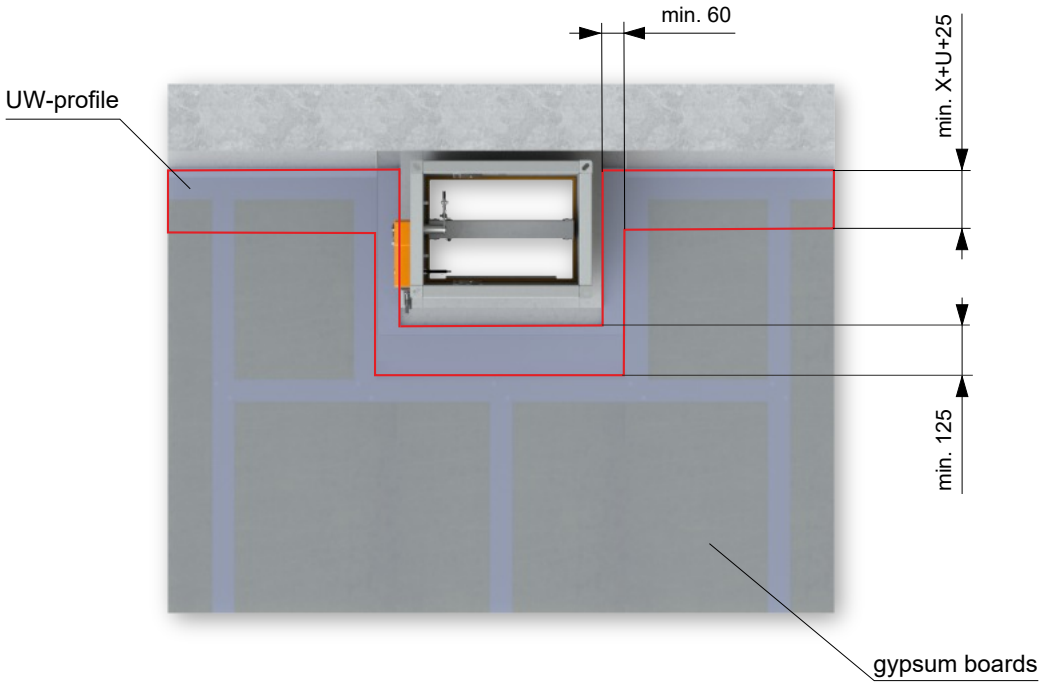


- X = ceiling movement ≤ 40 mm
- W = → see page 4-5
- Z = → see page 4-5
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- T = wall thickness ≥ 115 mm
- For rules of finishing the walls → see page 12

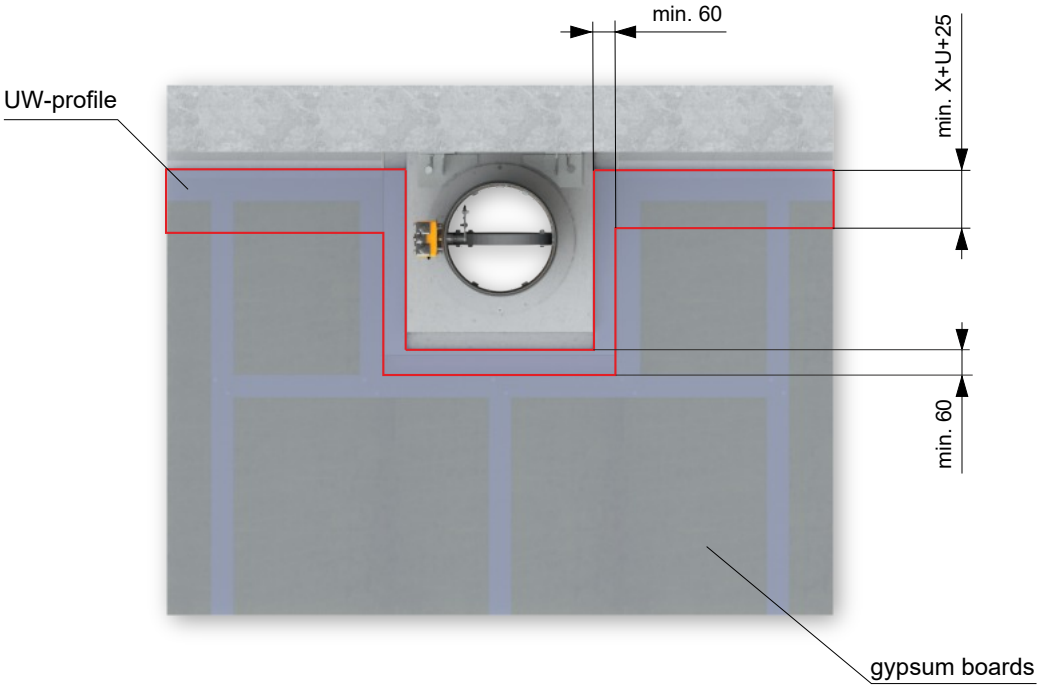
Rules for finishing the walls

- Red marked area where there must be no screw connections to ensure free movement of the ceiling with the frame and avoid damage - **(front and back side of the wall!)**
- X = ceiling movement ≤ 40 mm
- U = UW-profile height

Installation frame E5



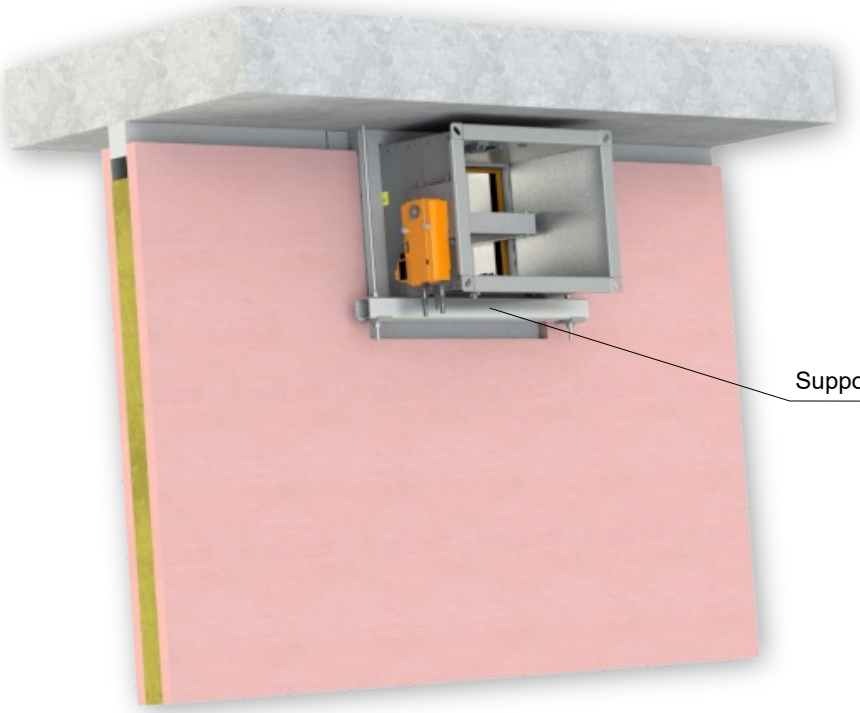
Installation frame R7

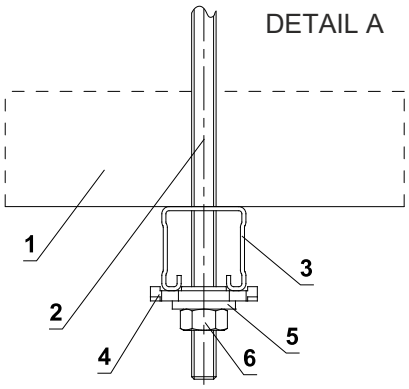


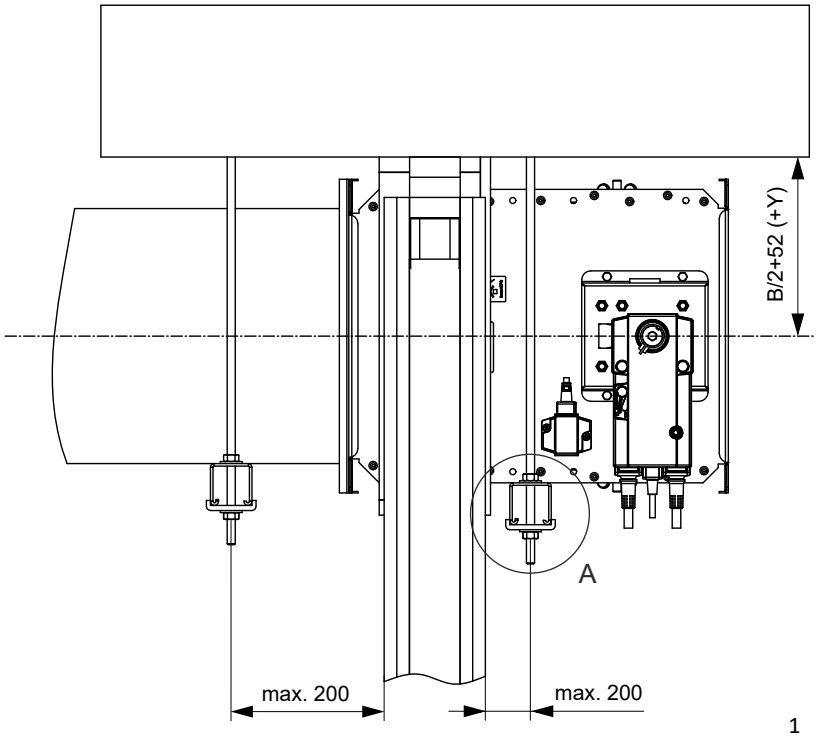
Fixing the installation frame to the ceiling

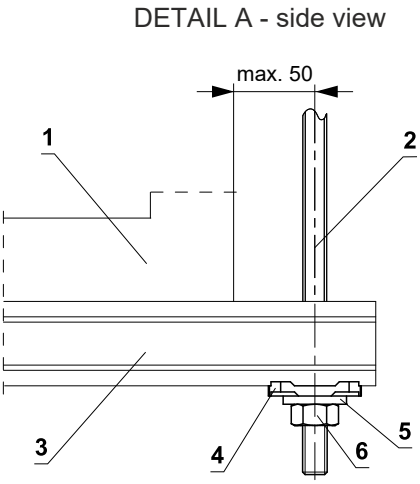
Installation frame E5

- E5 installation frames are fixed to the ceiling with threaded rods and supports (fixing material is not delivered with the frame)







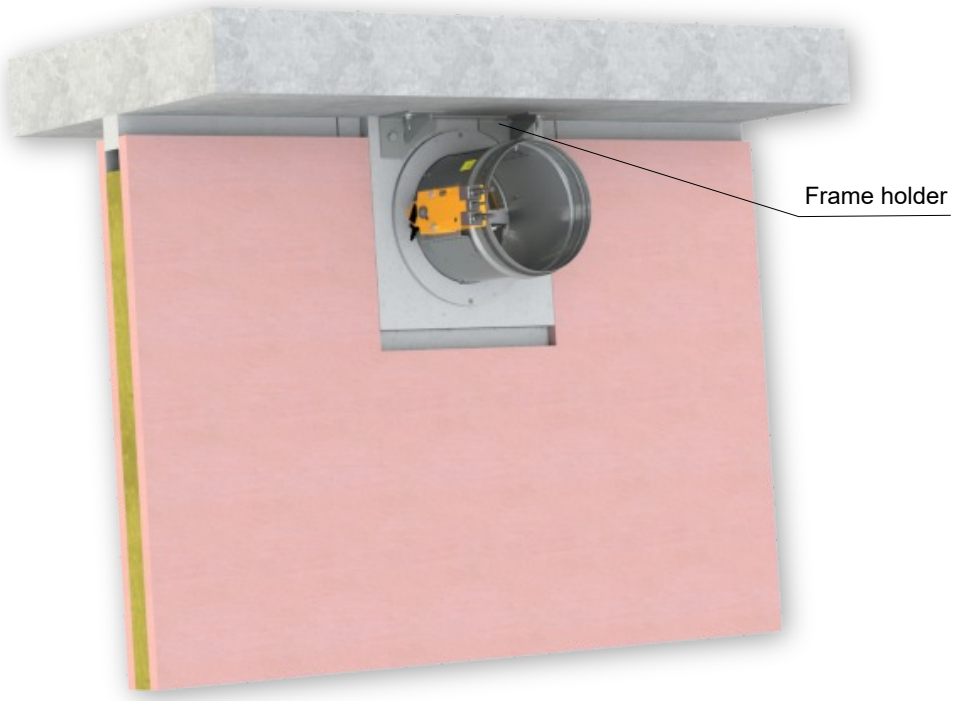


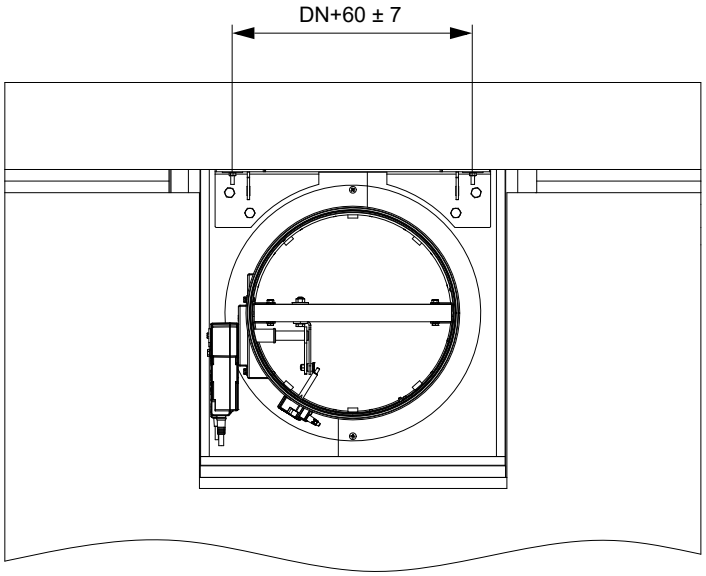
1 Fire damper
2 Threaded rod M8 - M12
3 Support HILTI MQ-41 or MQ-41/3
4 Sheet metal HILTI MQZ-L
5 Washer for M8 - M12
6 Nut M8 - M12

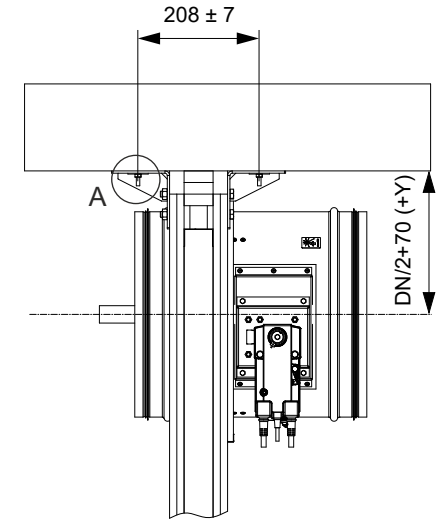
- Y = only when the frame is at a distance from the ceiling (max. 80 mm) → see page 5

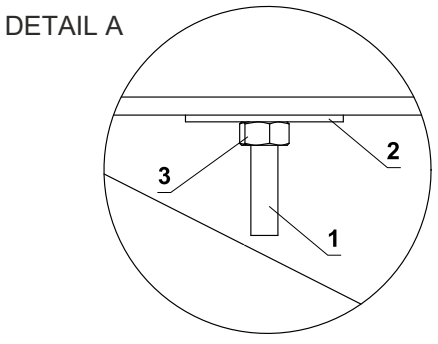
Installation frame R7

- R7 installation frames are fixed to the ceiling using ceiling frame holders (part of the frame) and threaded rods, steel an chors or screws (fixing material is not delivered with the frame)









- Y = only when the frame is at a distance from the ceiling (max. 80 mm) → see page 5

1 Threaded rod, steel anchor or screw M8 - M20
2 Washer Ø 35 mm
3 Nut M8 - M20

The producer reserves the right for innovations of the product.
For actual product information see www.mandik.com

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