

General requirements:

Number of pipe penetrations per cabinet	2
max. cut-out cross-section per cabinet	1412mm ²
max. pipe diameter (d)	28mm
max. hose diameter (d)	28mm
max. cable diameter (3x 1,5 ²) (d)	8mm
Pipe material	steel /stainless steel
max. pipe wall thickness	1mm
max. hose wall thickness	3mm

Note!

A: Pipes and cables are installed in holes with their nominal diameters (d).

B: Hoses < Ø20mm are installed in holes with their nominal diameters (d).

C: Hoses ≥ Ø20mm are wound continuously completely with a layer of intumescent strip (see Fig. 2). Drillhole diameter= nominal diameter (d) + 3,6mm.

D: Drillholes can be designed to the upper tolerance of the nominal diameter (d) or at most be rounded up to the next full millimetre. Gaps between the pipe/ hose/ cable and the insulation must be avoided.

E: Unused drillholes must be closed properly!

F: The minimum distance between the holes must be 15mm (see Fig.3).

The pipe penetration may only be attached in the marked attachment areas

(see page 2-6) for the respective cabinet type! The edge of the frame defines the outer limit of the attachment area.

The drillhole must always be perpendicular to the attachment area.

The door locking must not have any negative effects, when attaching the pipe penetration!

The ventilation shafts (areas above and under the ventilation connections) must not be damaged, when attaching the pipe penetration on the rear panel.

The pipes/ hoses/ cables to be fed in must not block the doors!

The pipes/ hoses/ cables to be fed in must not block the inside valve flaps!

The pipe penetration is assembled in the following order in preparation for the attachment: 1. Intumescent material, 2. Insulation, 3. Frame (see Fig. 1)

Use Ø3,5 x 9,5 screws for fixing onto the sides or top and Ø4,5 x 50 screws for fixing onto the rear panel.

Fig.1

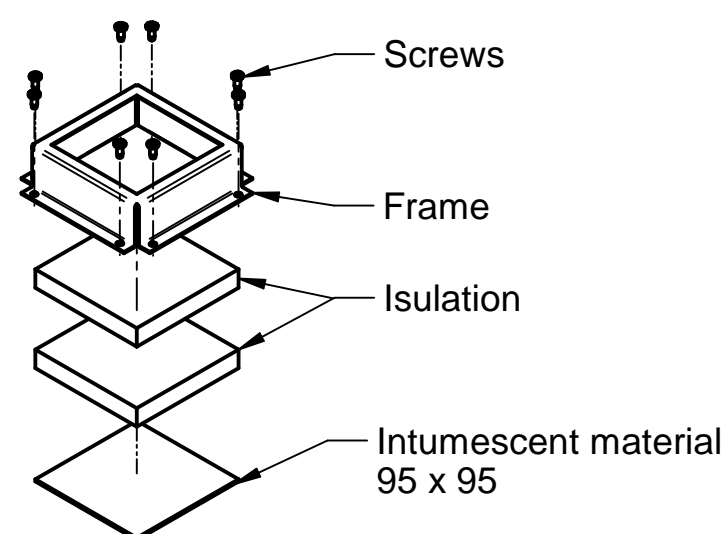


Fig.2

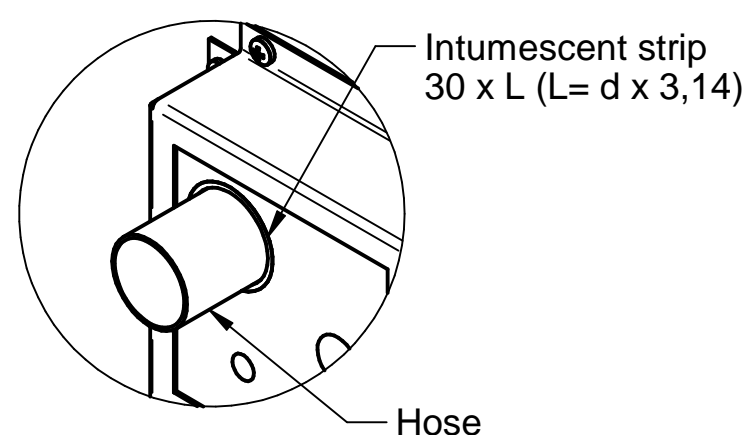
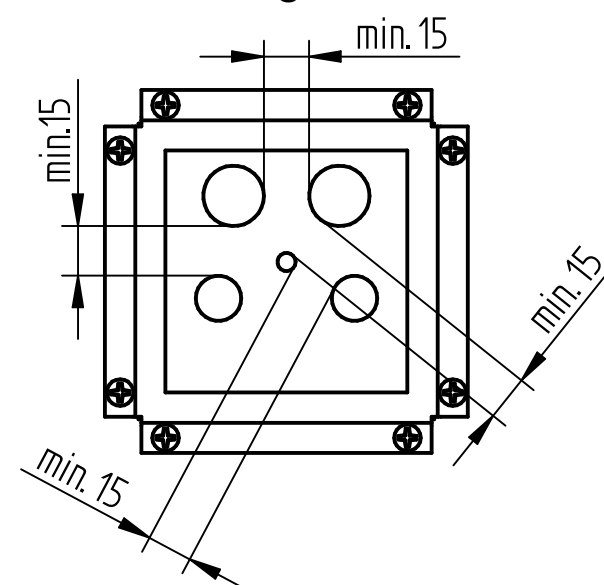


Fig.3



Model type	
S, S-5	page 2
M, M-5	page 3
L, L-5	page 4
LD, LD-5	page 5
XL, XL-5	page 6

Cross-section calculation:

$$A = \text{Cross-section area} = 3,14/4 \times d^2 \approx 0,785 \times d^2$$

Example for assignment:

1x Ø20mm + 2x Ø15mm:

$$A = 1 \times 0,785 \times 20\text{mm}^2 + 2 \times 0,785 \times 15\text{mm}^2$$

$$A = 667,25\text{mm}^2$$

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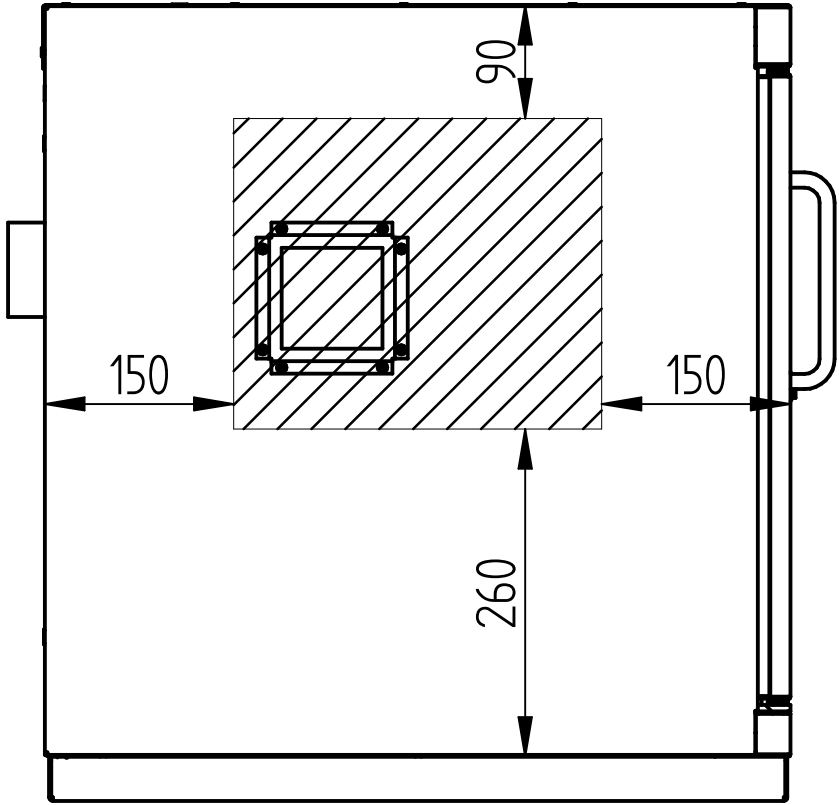
title: Installation instruction pipe penetration
UTS standard / pro

part number: 55214 drawing number: 000041135

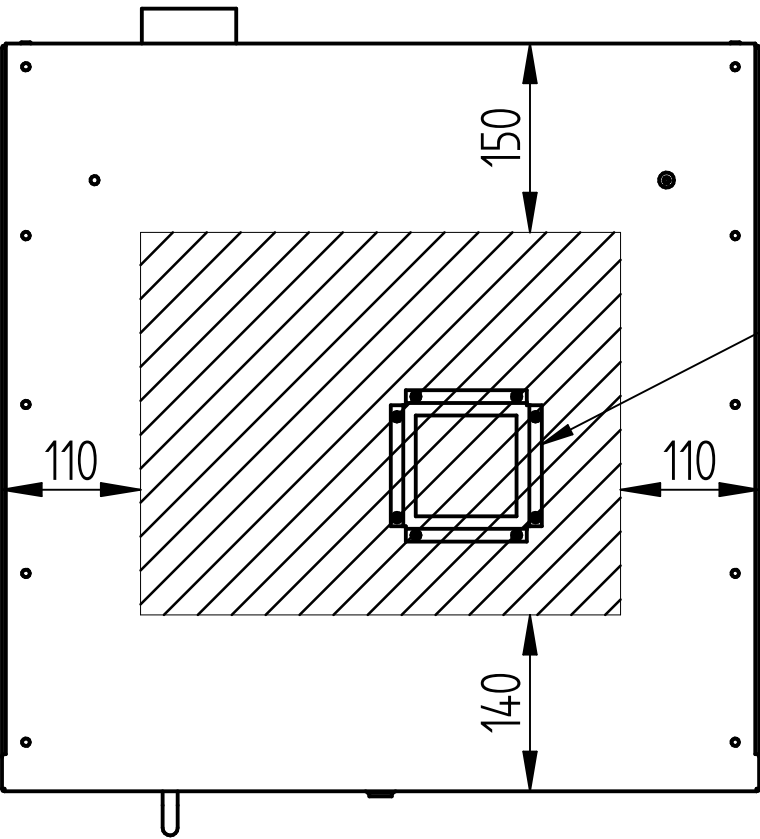
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Side left / right



Top panel



29-10000-x48
120 x 120

Description for:
- Classical door technology (door handle) and Push-to-open
- Cabinet depth 600 and 500

 Attachment areas

Model type: S, S-5

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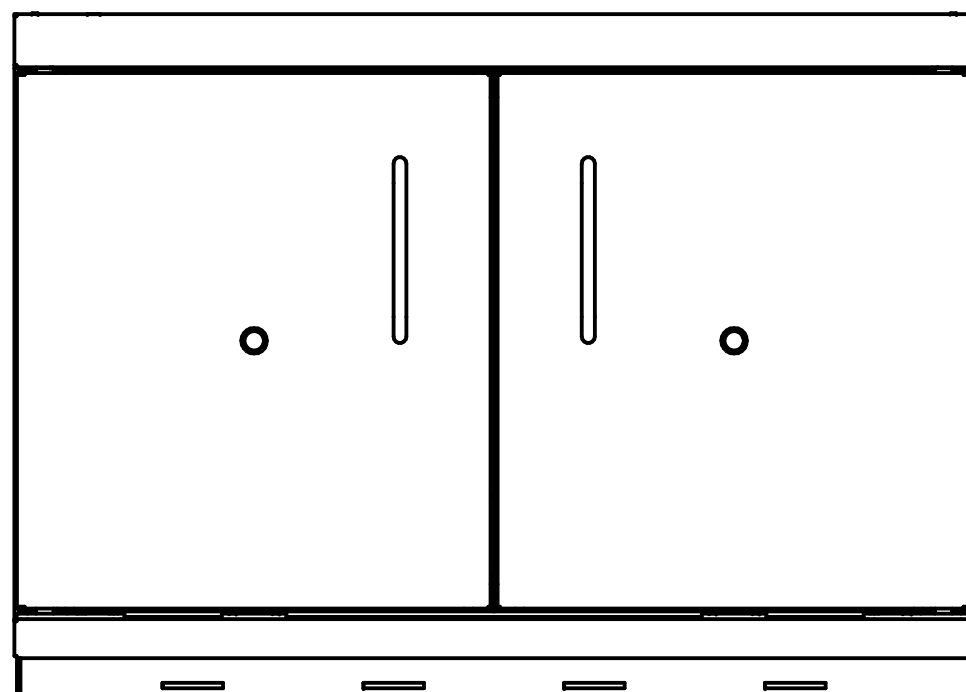
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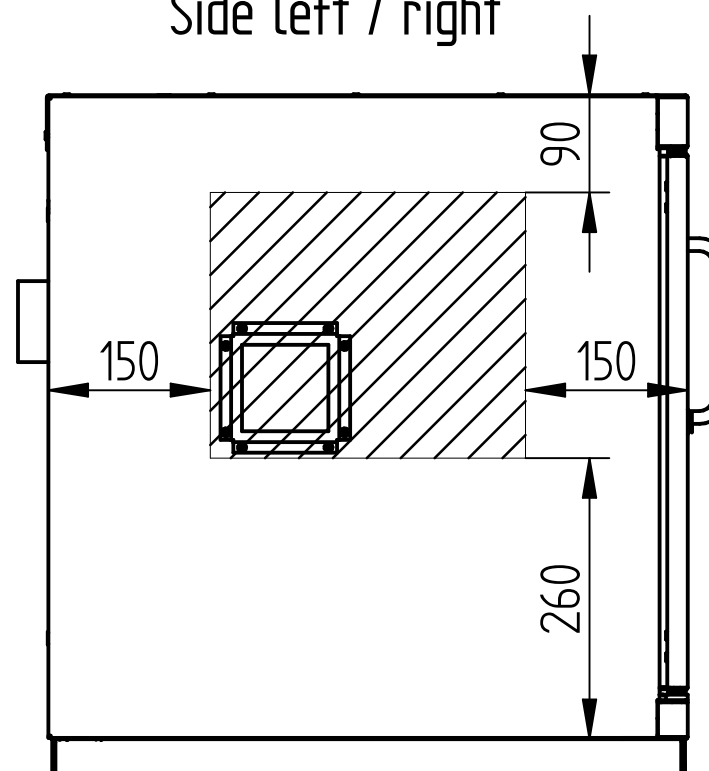
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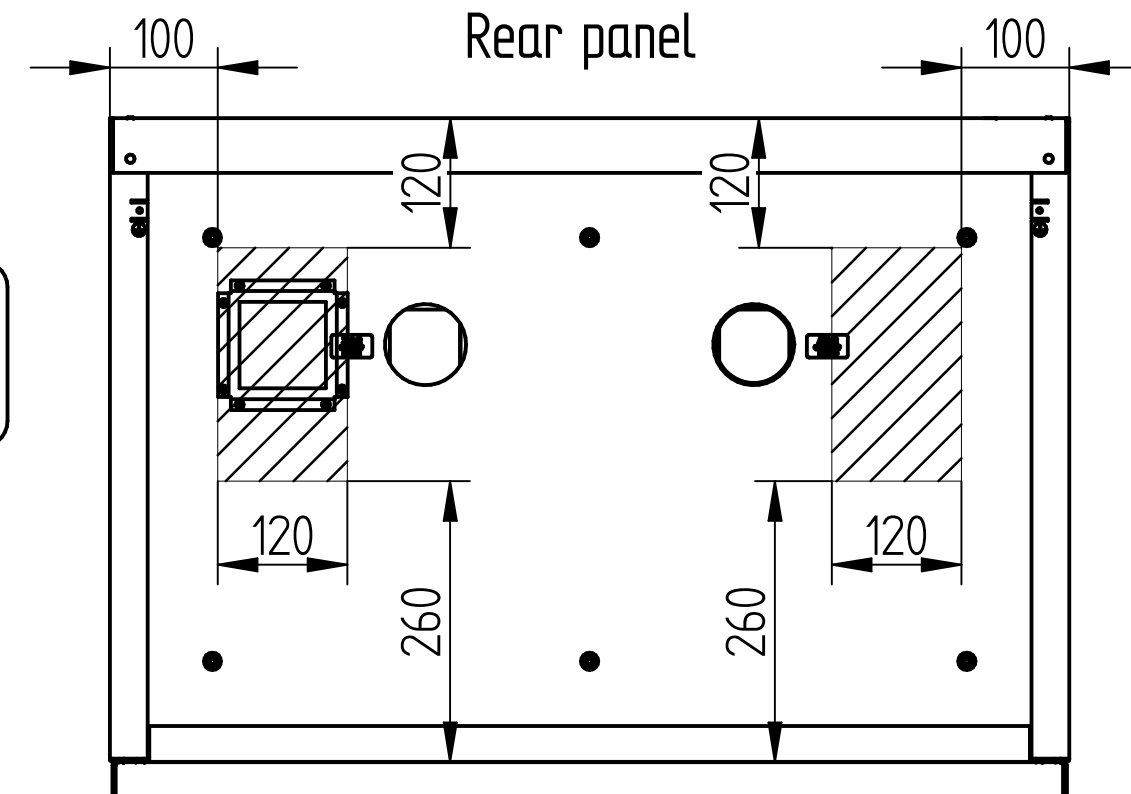
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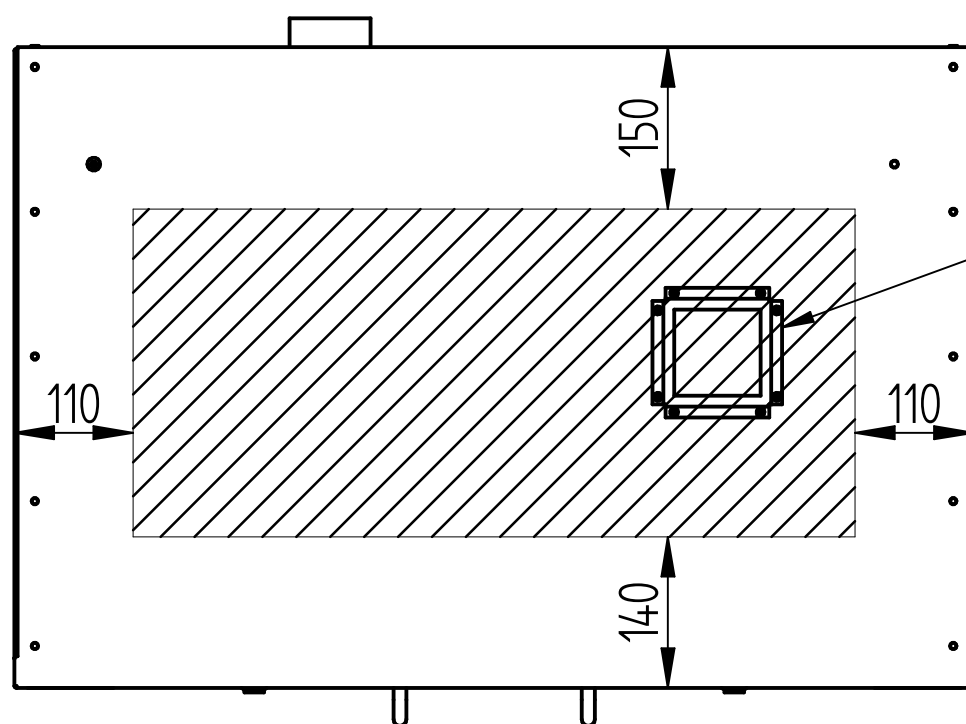
Side left / right



Rear panel




Top panel



29-10000-x48
120 x 120

Description for:

- Classical door technology (door handle) and Push-to-open
- Cabinet depth 600 and 500

 Attachment areas

Model type: M, M-5

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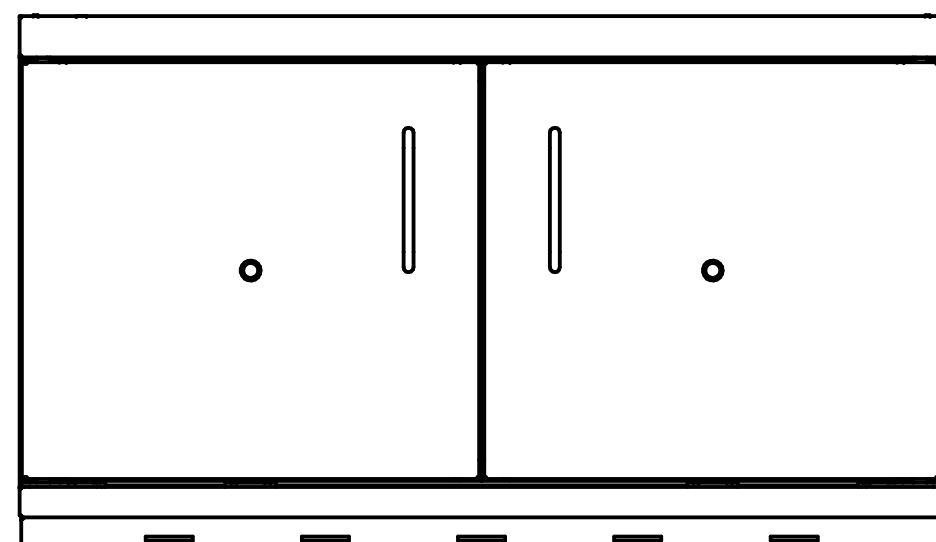
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UTS standard / pro

part number: 55214 drawing number: 000041135

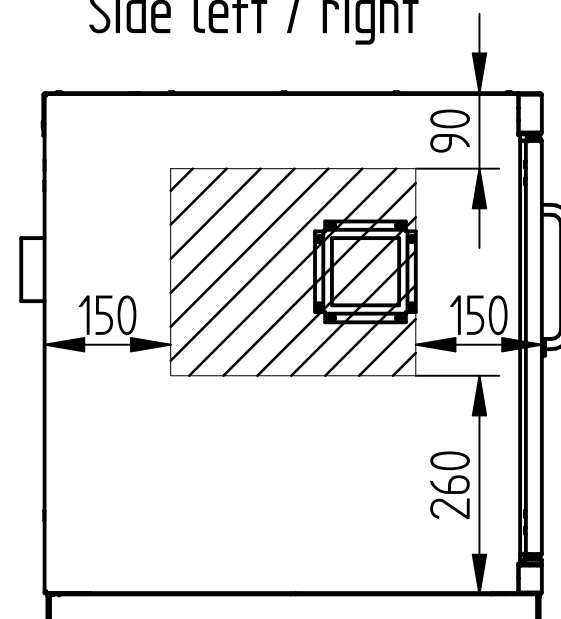
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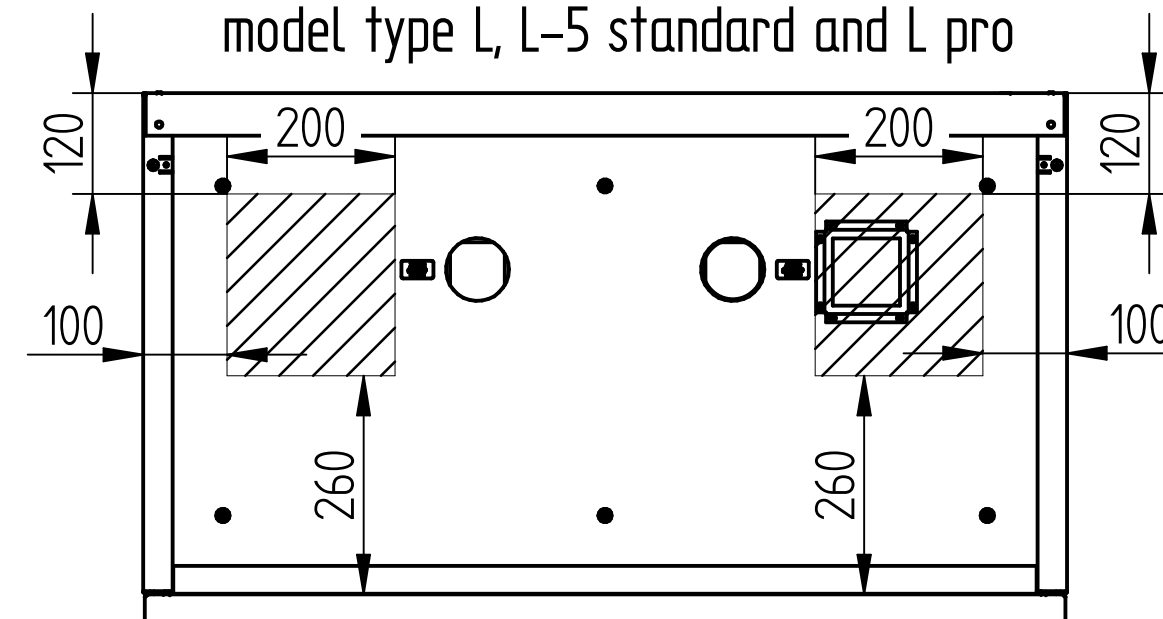
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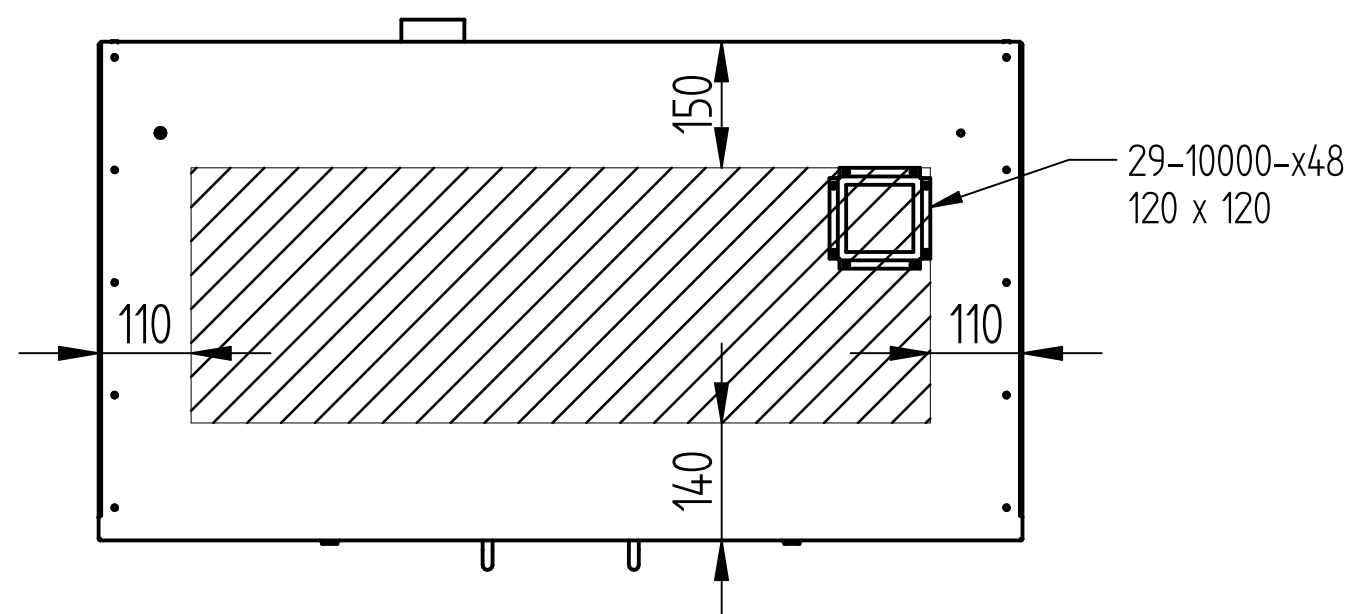
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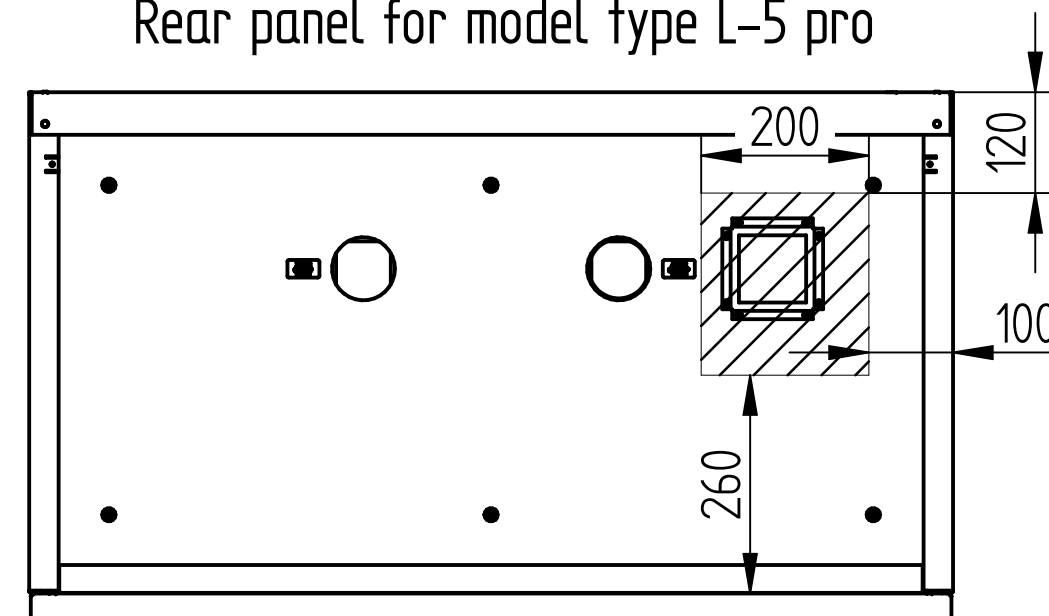
Rear panel for model type L, L-5 standard and L pro

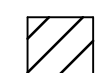


Top panel



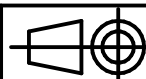

Rear panel for model type L-5 pro

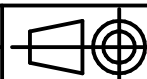


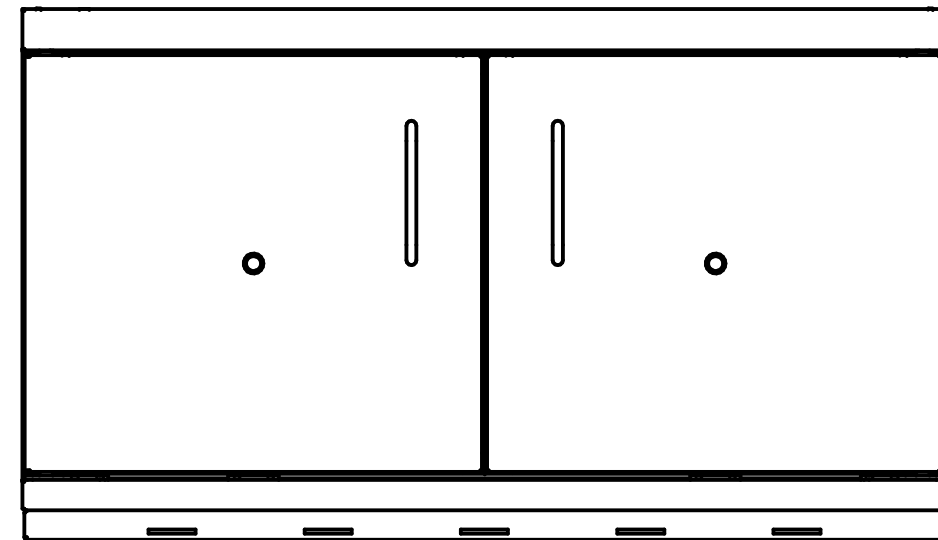
 Attachment areas

Model type: L, L-5

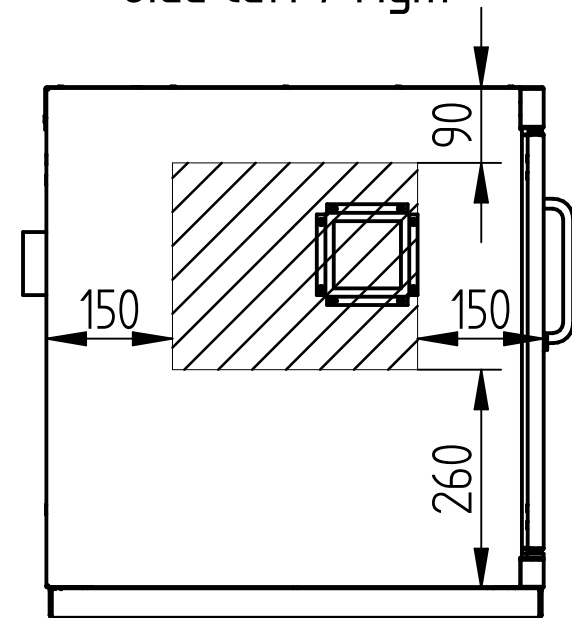
Description for:
 - Classical door technology (door handle) and Push-to-open
 - Cabinet depth 600 and 500

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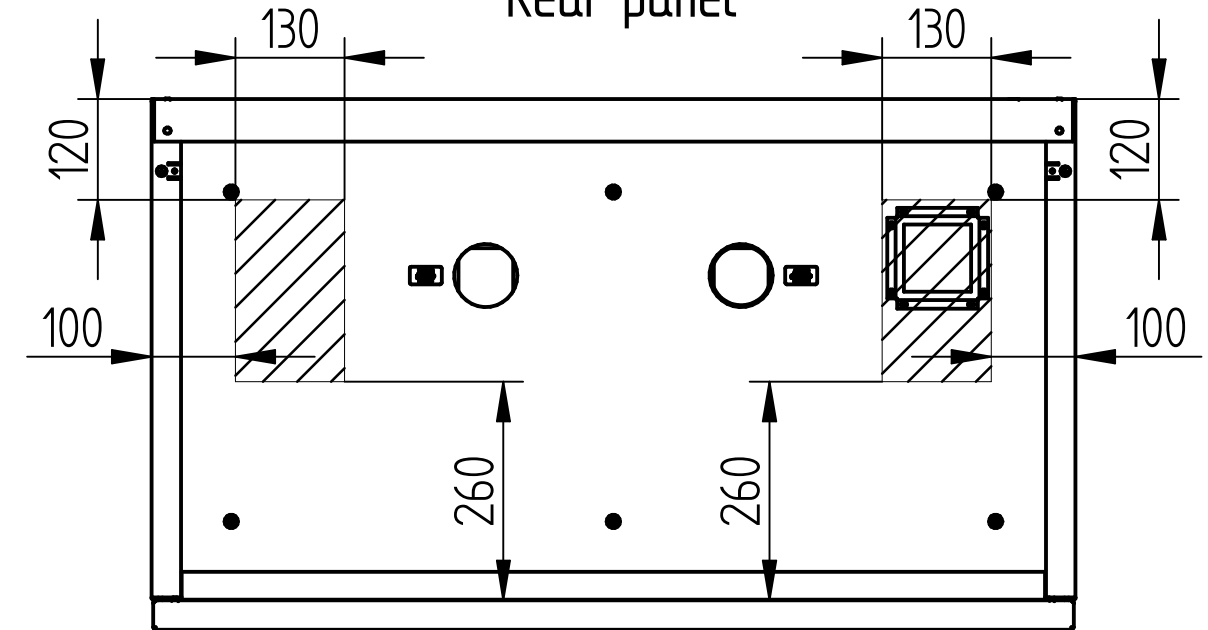




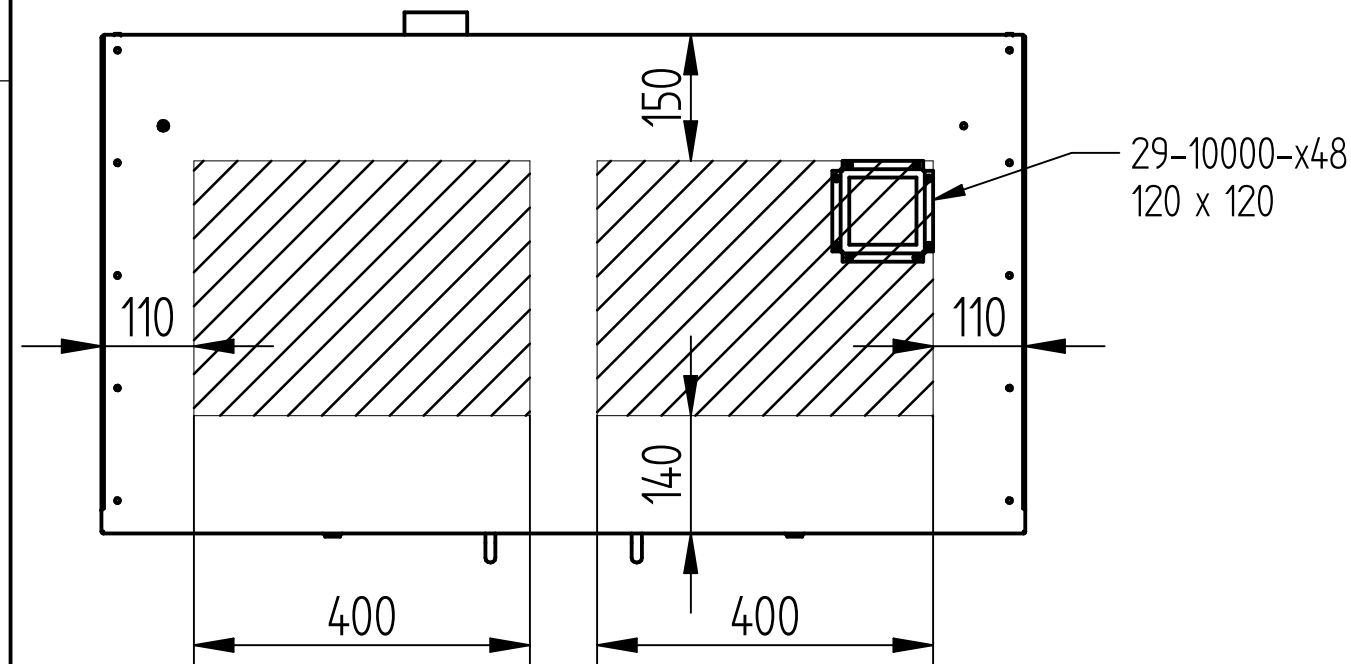
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Rear panel



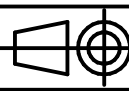

Top panel

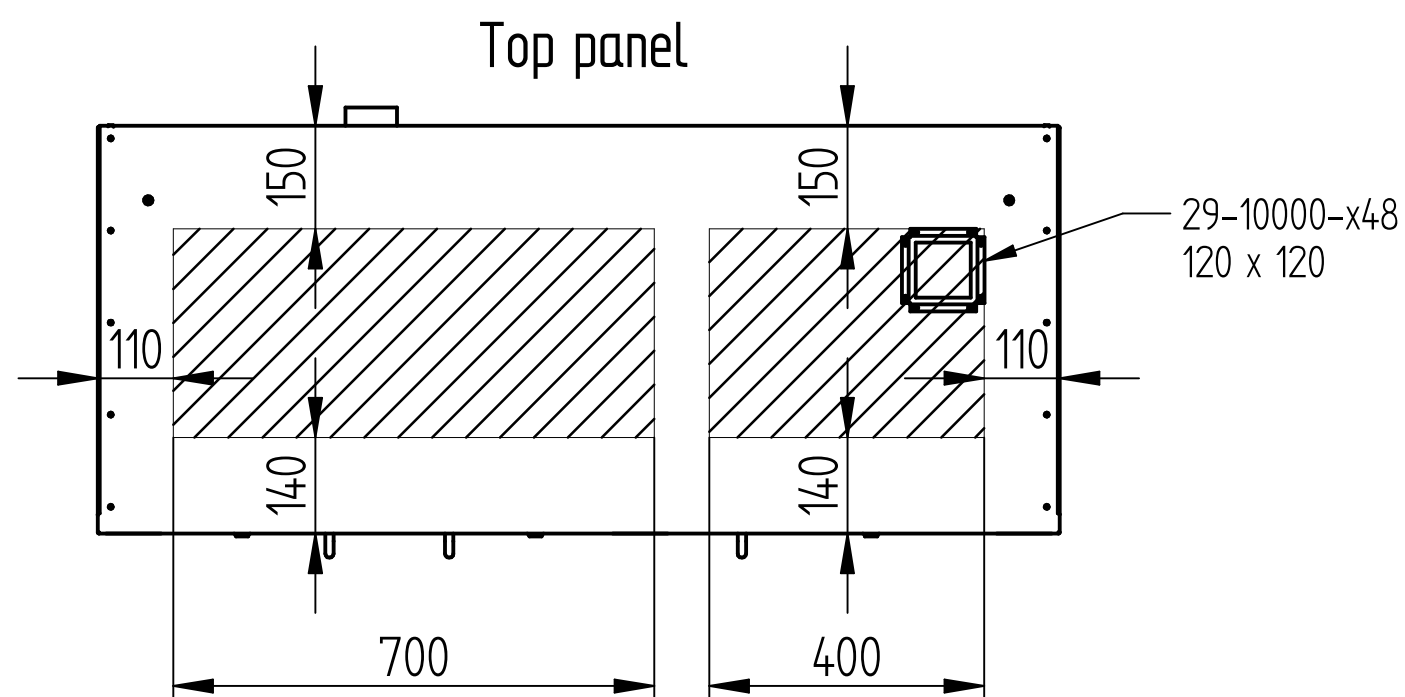
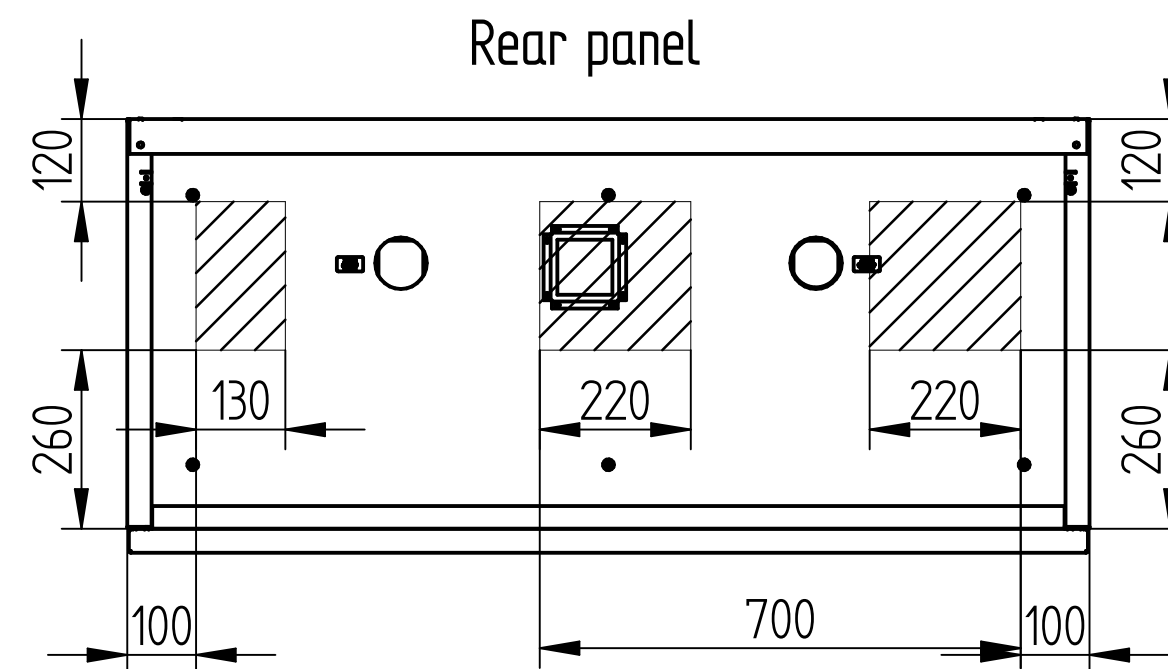
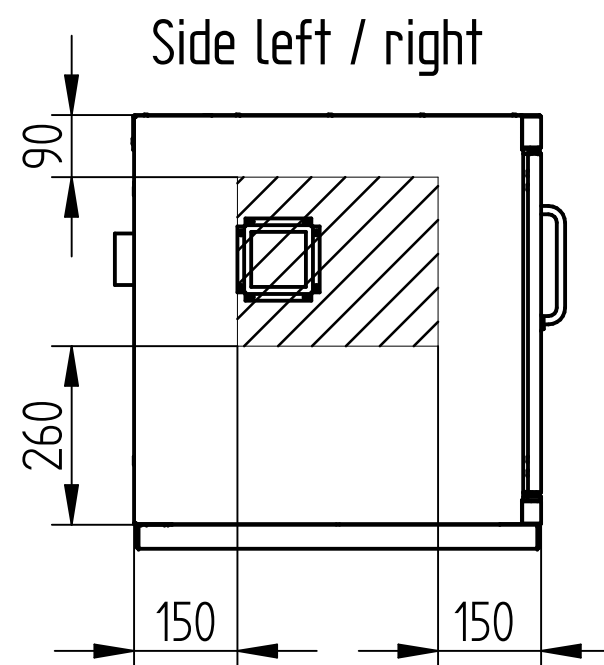
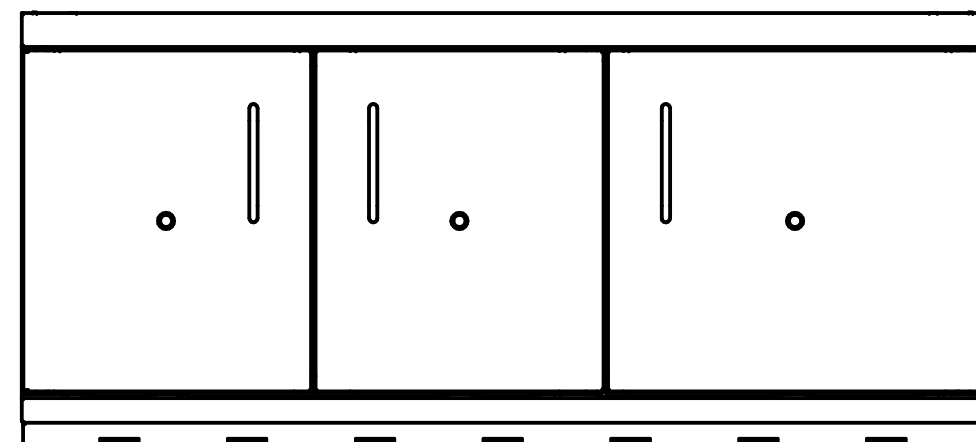


Description for:
 - Classical door technology (door handle) and Push-to-open
 - Cabinet depth 600 and 500

 Attachment areas


Model type: LD, LD-5

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Description for:

- Classical door technology (door handle) and Push-to-open
- Cabinet depth 600 and 500

 Attachment areas

Model type: XL, XL-5

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title: Installation instruction pipe penetration
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