General requirements:						
Number of pipe penetrations per cabinet	2					
max. cut-out cross-section per cabinet	1412mm²					
max. pipe diameter (d)	28mm					
max. hose diameter (d)	28mm					
max. cable diameter (3x 1,52) (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 \geq 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) 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.

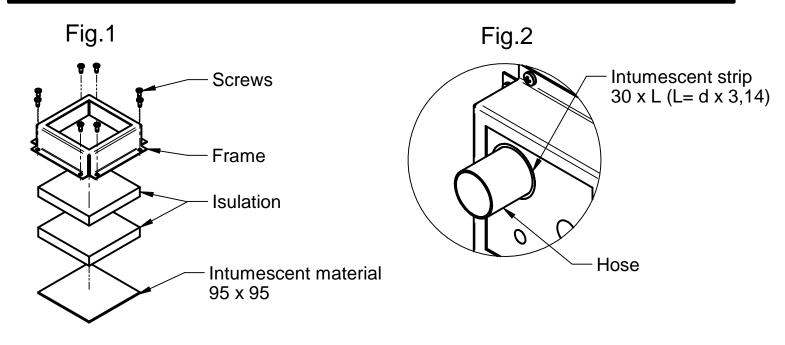
The door locking must not have any negative effects, when attaching the pipe penetration!

The 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.



Cross-section calculation:

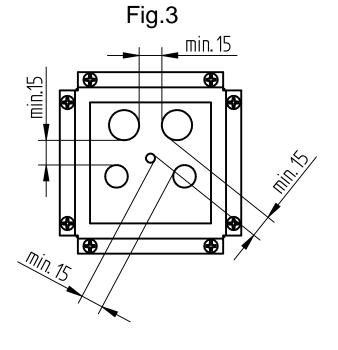
A = Cross-section area = $3,14/4 \times d^2 \approx 0,785 \times d^2$

Example for assignment:

1x Ø20mm + 2x Ø15mm:

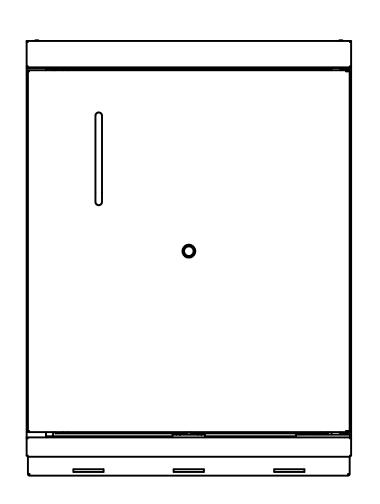
 $A = 1x 0,785 \times 20mm^2 + 2x 0,785 \times 15mm^2$

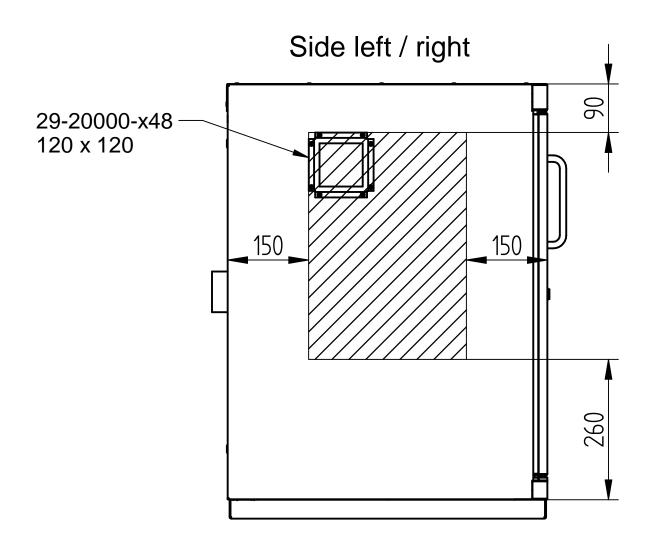
 $A = 667,25 \text{mm}^2$

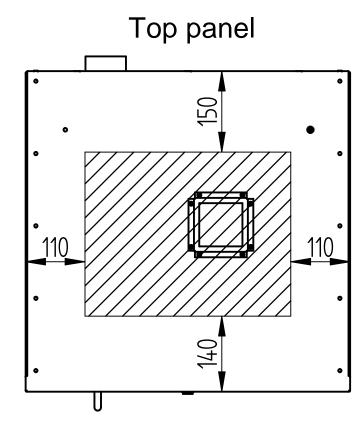


Model type	
S	page 2

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Frankenstraße 3 D-63791 Karlstein			DÜP	ER	TH/	7L







Description for:
- Classical door technology (door handle)
and Push-to-open



Attachment areas

Model type: S

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