

## *Installing fire doors and glass partitions*

*Glazing of parties in accordance special work instructions*

Pre-conditions

Preparation

Self-inspection

Execution



This **work instruction** is designed for use in detailed planning and preparation of work on construction projects. With thorough planning high levels of personal safety and optimal work apportionment can be achieved at the same time as the work can be organized efficiently and cost effectively.

Work activity & Problem	P	C	Risk= P*C	Action
Overloading, stretching	10	50	500	Use the transport and lifting aids for fire doors and fire partitions
Cluttered workplace =Twisting or fall injuries	10	15	150	Regular tidying
Pinching or frame / door leaf tips	1	70	70	
Drilling	1	50	50	

Probability = P  
 Consequence = C  
 Risk = P \* C

**Assessment of probability**

P = 0,1	Very unlikely	(<1 times/10 years)
P = 1	Unlikely	(1 times/10 years)
P = 3	Low probability	(1 times/3 years)
P = 10	Relative probability	(1 times/year)
P = 30	Probable	(1 times/month)

**Assessment of consequences**

C=0,5	Trifle	
C=1	Tiny	( 1 - 2 days sick leave)
C=5	Small	( 3 - 7 days sick leave)
C=15	Tactile	( 8 - 29 - " - )
C=70	Severe	(30-299 - " - )
C=500	Very severe	(>300 - " - )

## Check the dimensions of the assembly openings

Check that the base for the threshold is level and designed so that the seal can be secured between the threshold and the base/raw concrete.

In order that a fire door/partition shall function as intended, the following requirements must be fulfilled

**If these requirements are not fulfilled, the door may stick and be impossible to open during fire.**

When the door/partition is in place to check the gaps around the door:

1. The doors/partitions up to 10 mm gap below the threshold
2. Over doors/partitions not less than 10 mm. ***Fire door/partitions must be able to expand upwards!***
3. The gaps on the left and right will be equal to or less than 10 mm

## Equipment and Materials

**Equipment:**

- Drill with cord loading - for concrete
- Drill with battery - for metal
- Screwdrivers
- Long spirit level
- Hammer
- Crow bar
- Plastic Wedges
- Drills: 6 mm for metal and steel drill
- Bits for screws

**Materials:**

- Assembly screws 112 mm, requiring no plug
- Spacers made of plastic, 10, 5, 2.5 mm (different colours)
- Cover plugs 6-8 pcs



## Deliveries - logistics

Glazed windows, doors, wall sections of glass, doors and the like shall be transported and stored in the same position as they shall be mounted, ie with the bottom piece and the threshold down. Alternatively, the transport and storage may take place in another position if the goods are fitted with transit bolts inserted between frame and sash and between frame and door leaf. Must be stored flat, dry, well ventilated and protected from precipitation in a secure location.

Fittings supplied separately to be kept indoors. Windows, door partitions, doors and the like shall not at any point during the construction period be exposed to a moisture load above the normal moisture load for the place of its future installation.

Manufacturer's instructions for transport, storage and installation shall be followed.

A small 'trailer' facilitates the transport of the parties.



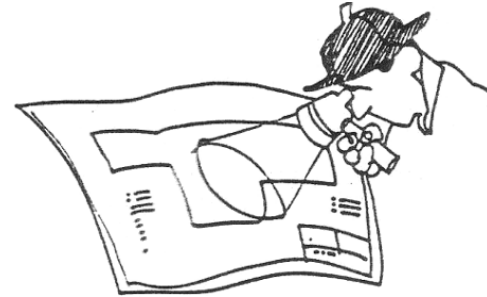
Self-inspection 1(2)  
 Template & instructions

No	Check	Method or equipment	Frequency	Result	Date Signature	Deviation/Remedy Approval/Non-A
1	Assembly is plumb					
2	Adjusted to around +/- 5 mm					
3	Space below the threshold <10 mm Gap over frame > 10 mm					
4	All mounting points fixed					
5	The unit is stable					
6	Function: Opening and closing					
7	Lock: The door locks					
8	Gap filling performed with non-combustible material (rock wool)					
9						
10						
11						

**Attention:** Gap filling material shall be of non-combustible = stone wool.

## Quality criteria for the project and the product

- Study Drawings, Specifications and Inspection planning
- Think through the alternative **methods of production** and handling of materials, tools etc. that can meet the requirements



### *Pay particular attention to*

- Install the door as required by the Specification and in accordance with the manufacturer's instructions
- Check the labelling on the doors - so they end up in the right place
- Do not mount damaged doors

First drill 6mm holes for mounting screws through the frames from the outside - through the fixtures.

The metal partitions location marked. It is set in place, set plumb and wedged.

The threshold is adjusted level with spacers of different thicknesses.

Check that the gap below the threshold is 10 mm max.

To fix, the door is opened and placed at an angle to the frame unit and wedged underneath.





When the fire door/metal partitions is in place and wedged check that it is:

- Plumb & level
- Location in the wall
- Gaps:

1. Under the doors/partition < 10 mm
2. Over the door > 10 mm for upward mobility
3. At the sides < 10 mm

***Fire door/partition must be able to expand upwards!***

***...otherwise maybe the door cannot be opened in case of fire !***



After checking that the units are in the correct position, fixing holes are bored into the concrete with a hammer drill through holes drilled in the frame.

Then tighten the mounting screws, they require no plugs.

First screw the hinge side beginning with the bottom hole so that the unit shall positioned correctly in relation to the floor.

Then drill the top hole and then the others.



Frames with width greater than 1200 mm shall have the extra fixture attachment to the upper frame, which allows upward mobility – without **hooking in** the screws...



After screwing check again.



## Function control

Can the door be easily opened and closed?

Is the gap around the door equal all the way around?

Can the unit expand upwards?

## Fittings

Door Closer

Door stop

Lock

Handle

Glazing, see [65 KHB](#)



Execution 6(5)  
Work activity

*Building component: 65 – Interior doors, glass partitions – Special doors 13 (12)*