

## *Installation of interior doors*

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	70	700	Use the transport and lifting aids
Crane work with door cage	30	5	150	Training for crane directing/strapping
Cluttered workplace =Twisting or fall injuries	10	15	150	Regular tidying
Trapping, door tips	1	70	70	

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 - " - )

(See also AFS 2008:13, Appendix 3)

 <p>Hoist Load</p>	 <p>Lower Load</p>	 <p>Hoist Load Slowly</p>	 <p>Lower Load Slowly</p>	 <p>Stop</p>
 <p>Swing Boom in direction indicated</p>		 <p>Lower Boom</p>		 <p>Emergency Stop</p>
 <p>Extend Boom</p>	 <p>Retract Boom</p>	 <p>Raise Boom</p>	 <p>Lower Boom</p>	 <p>Signal not understood</p>
 <p>Open</p>	 <p>Close</p>	 <p>Main Hoist</p>	 <p>Auxiliary Hoist</p>	 <p>Finished</p>

## Equipment and material

### Equipment, tools

- Tape measure or ruler
- Marker Pen
- Hammer
- Screwdriver/drill
- Special Drill
- Screwdriver
- Long spirit level
- Hammare
- Mounting Wedges (4 pieces) and possibly, permanent wedges (2 x 8 pcs)
- Tools for frame screws
- Lighting

### Materials

- Frames, door and threshold
- Frame bolts adjustable
- Screws
- Nails to mouldings
- Plugs - for concrete and brick walls
- Possibly, lock case

Good light but smaller ones are available

A wagon for tools, materials and Equipment. Avoids a lot of running around



## **Transport , storage and handling**

*According AMA Hus - NSC:*

Windows Doors, wall sections of glass and doors must be transported and stored in the same position as they are to 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.

### **Storage**

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 and doors must not in any phase of construction be exposed to moisture loads above the normal moisture load to be experienced during future usage.

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



Storage of frames and sheets in the toilet and bathroom so that they shall not be in the way when laying the floor.

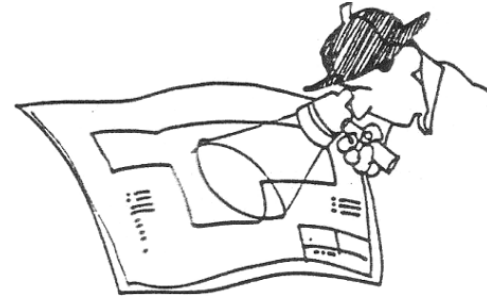
OK? Good or bad?

Self-inspection 1(2)  
Template & instructions

No	Check	Method or equipment	Frequency	Result	Date Signature	Deviation/Remedy Approval/Non-A
1	Fixings - right sort Adjustable					
2	Sound and fire requirements Caulking for fire requirements					
3	Function					
4	Fittings, locks					
5	Marking					
6						
7						
8						
9						
10						
11						

## 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



## **Mounting**

Check that the base threshold is level.  
Place a door frame in the opening.

Make sure that the joint between the frame/wall opening is max 20 mm - otherwise adjust to meet fire requirements.



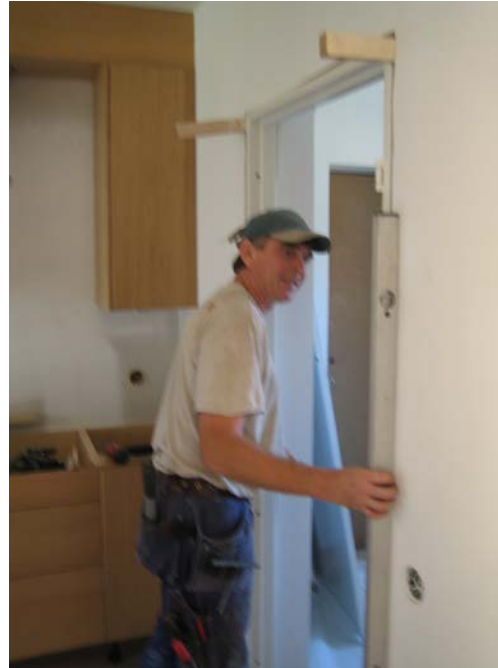
Secure the frame by temporarily wedging in the corners and tapping the frame in to place.



When the door is wedged check that it is plumb and that there is an equal gap on both sides.

Possibly, check that the diagonals are equal with two battens which are 'shifted' to each other.

When the frame is right screw into place. First on the hinge side



Screw the frame on the hinge side.

As support when no wedges are used, the door is held in position using loose the loose wedge as shown in the picture.



Using an insect key, the frames screws are adjusted so that the frame sits correctly.



Hang the door and fine adjust.  
Protective plastic in this case must be left for protection.



Open the door and check that the door and the frame are parallel.

Running between frame and door leaves may not exceed 3 mm.



When all the measurements are correct the lock is screwed in to position.

A final adjustment so that the gaps around the door will be equal.

Then adjust the lock and check the door's function.

