

# Press Metal Frame

## Recommended installation instructions

### Scope

1. The methods of installation recommended within this document apply to steel frames (hinged doors) that suit a variety of wall conditions most commonly used in commercial buildings.
2. It is not the intention of this document to obstruct the development of alternative installation methods, nor is it intended to restrict frame installation solely to the wall types noted herein.
3. Critical performance requirements, such as type, quantity and location of anchors - should be adhered to as indicated in the manufacturers published approvals.

### Storage and preliminary assembly

#### Basics

1. It is essential that all frames, including knocked-down, be stored under cover in an area not prone to moisture or water.
2. The use of non-vented plastic or canvas shelters can create a humidity chamber and should be avoided.

#### Grouting of frames

1. In masonry installations where grouting is required, frames must be braced or fastened in a way that will prevent the pressure of the grout from deforming the frame members.
2. It is vital that the grout be mixed to provide a (100 mm) maximum slump consistency that can be hand trowelled.  
Grout mixed to a thinner 'pumpable' consistency should not be used.
3. Fire rated frames require core filling as specified under the AS1905.1-XXXX. Mortar guards/dust boxes in frames are not intended for thin consistency grout. Non rated steel frames do not require grouting.  
Grouting is not recommended for frames installed in partitioned walls.

## Assembly of frame/anchor provisions

Follow manufacturers' recommended procedure for assembly of frame, quantity and spacing of anchors.

Unless otherwise indicated, install anchors at hinge levels, directly opposite at strike jamb. Fixings are required no more than 400mm apart on Fire Rated Frames.

## Verification

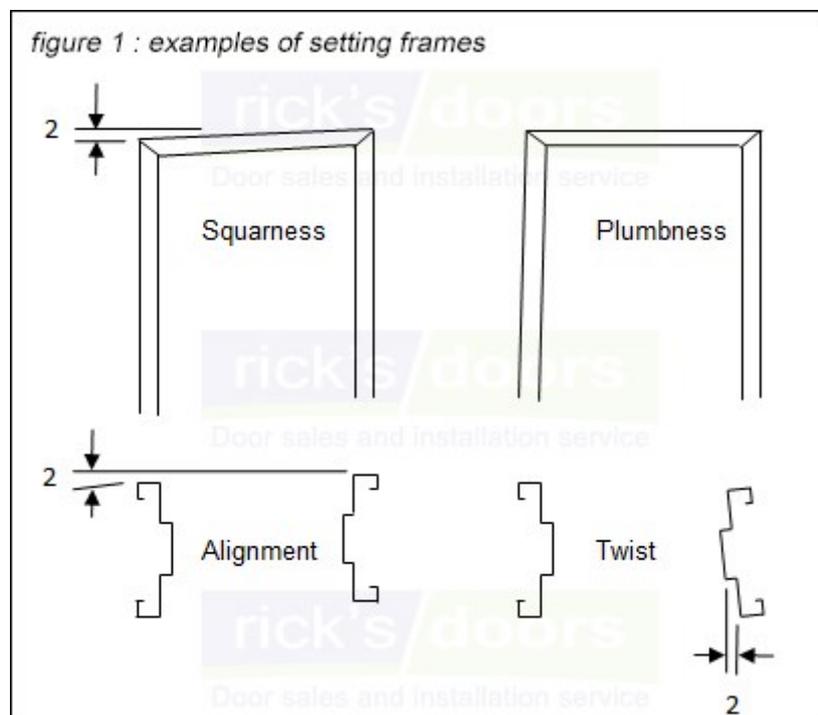
Prior to installation, the contractor should ensure correct profile, swing, size and labelling - Fire Rated Frames are supplied with 25mm stop.

***Please note: Rick's Doors will not be liable for rework of frames, hand change and the like for incorrectly supplied frames that are installed.***

## Installation tolerances

The door will NOT function correctly if the frame is not installed within recognized tolerances.

Figure 1 shows examples of the accuracy to be maintained while setting frames.



## Plumbing and bracing frames

### Wood Spreaders

The contractor/s responsible for installation, should have available a sufficient supply of wood spreaders for bracing frames.

**Note: Spreader bars for shipping purposes should NEVER be used as installation spreaders.**

Wood spreaders should be fabricated from lumber, square in shape and no less than 25 mm thick.

The correct length of the door opening width should be between the jambs at the head. Length tolerance is (+/-0 mm).

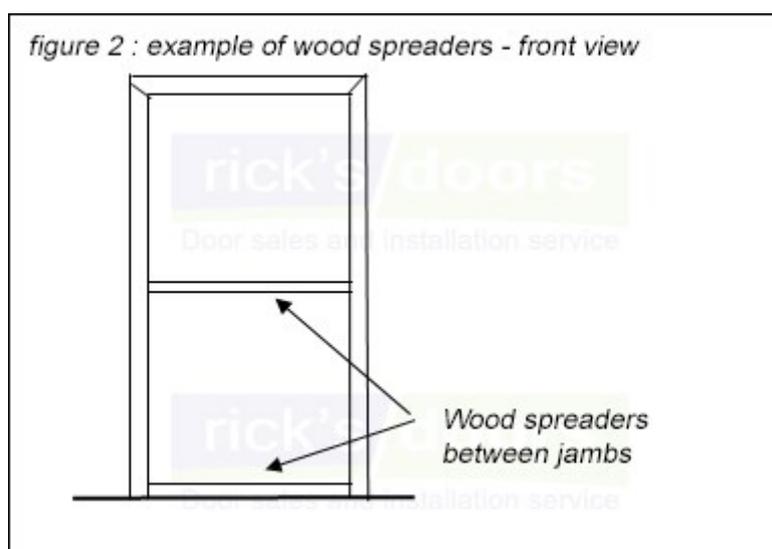
Cut clearance notches for frame stops.

For correct installation, spreader should be nearly as wide as frame jamb depth.

### Equipment for plumbing the frame

1. The contractor should be equipped with a 1800mm carpenter level, square and wood spreaders.
2. To ensure correct fitting where welded frames are provided with spreader bars, it is highly recommended that they be removed with a suitable saw or chisel and filed flush before setting frames.

Figure 2 shows examples of wood spreader between jambs



## **Plumbing and bracing frames (cont.)**

### **To accurately position the frame**

1. Set the frame in the desired position and level the header.
2. Square jambs to header.
3. If necessary, shim under jambs.
4. With frame properly aligned, insert wood spreaders at bottom and at mid-height. Fasten jambs to floor via floor anchors.
5. The Metal Spreader bars supplied welded to the frames may require to be removed. The spreader bars are for transportation purposes only.

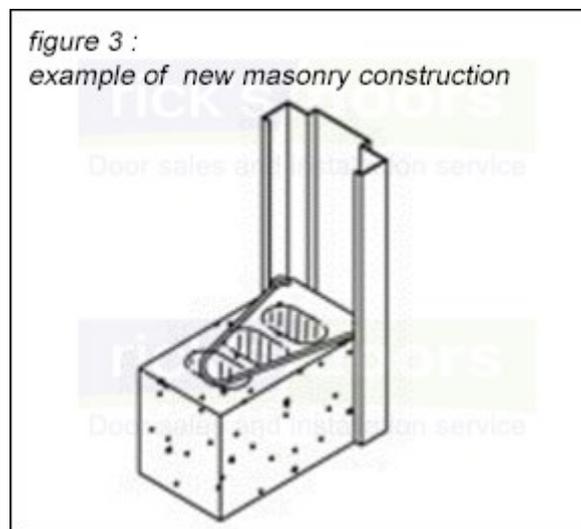
### **Extended base anchor**

Secure into position the supplied extended base anchors (Ramset Plates).

## New masonry construction

1. Erect, brace, square, plumb and set first spreader to the base of the frame.
2. Fasten frame to floor through base anchors.
3. To maintain the door opening size, set second spreader at mid-height.
4. Install wire ties. As block courses are laid up, grout frame in the area of anchors.

Figure 3 shows examples of new masonry construction.



## Existing masonry construction

1. Rough openings for existing wall, structural steel framing, or retrofit installations should be no less than (5-10mm) larger than the overall frame.
2. The contractor is responsible for any shimming or aligning required. Gaps are normally sealed as part of the installation or caulking/painting process.
3. Fire/smoke door frame sets MUST have appropriate sealant material.
4. Slide frame into wall opening.  
Install wood spreaders.
5. Where possible, the hinge jamb should be butted tightly to the wall.

6. Use tapered shims between anchors and wall. Use spreaders to maintain squareness and alignment of frame and to maintain door opening size.
7. Install anchors – Dynabolts - or alike.  
Drill appropriate size hole as per instructions
8. Backer rod or caulking should be used where gaps occur between frame and wall.
9. Insert anchor bolts and tighten securely, checking for frame alignment periodically.

## **Steel stud wall construction. Studs erected with frame**

1. Assemble frame as per manufacturer's instructions (knock downs).
2. Install snap-in anchors and stud clips in frame through the architrave then tap in with a hammer.
3. Frames may also be supplied with anchors welded in place.
4. Erect, brace, square and plumb frame as shown.
5. Install wood spreaders.
6. Attach jambs to floor via floor anchor (ramset plates).
7. Install jamb studs to floor.  
Header channels and ceiling runners must NOT be butted tightly against frame.  
Frames supplied are non load bearing, then correctly positioned in frame throat for wallboard.
8. Avoid nesting or overlapping stud joints, or other wall construction practices that will increase the overall wall thickness beyond the intended finished width.  
A nominal 3-4 mm additional clearance is provided in the throat of the press metal frame. No allowance is made for double stud
9. Attach jamb studs to anchors with screws or weld.