



Installation instructions

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HUGA moulded frame

lt. RAL-RG 426, part II

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1. Basic factors

HUGA's moulded frames are separated per RAL- RG 426, part II into two stress groups: stress group M (medium) for doors of up to 60 kg in weight, and stress group S (strong) for doors of up to 80 kg.

HUGA's standard moulded frame is designed for stress group M.

Please observe the notes and recommendations at the end of the installation instructions.

2. Mounting specifications

2.1 Before starting to assemble the frame, check that no parts are missing, that everything is in perfect condition and the right size for the job.

- 2 upright sections of frame (jamb) with seal
- 1 horizontal section (head) of frame with seal
- architraves to fit the frame sections
- Bag of fittings

2.2 Check the location where the frame is to be installed

- Is the structure of the wall suitable for the door?
- Should the height from the floor be taken into account (cutting & check)?
- Is the opening direction correct?
- Should the door open inwards or outwards?
Must any building regulations be observed?

3. Mounting and installation

3.1 If your HUGA moulded frame is to be converted using „HUGA's hinge reinforcement Art-No 412106“ or „HUGA's bag of fitting for frame conversion to stress group S“, this should be done now (see notes and recommendations). Flush moulded frames come equipped with the correct fittings.

PLEASE NOTE: Once the frame has been installed, conversion is no longer possible.

3.2 Place all jamb components on a clean surface. Press the white connectors into the upright jambs, the black connectors into the horizontal head. Apply adhesive to the cut faces, drive in the screws and the mitre joints, lightly pressing the architraves onto the mounting surface. (Diagram 1) Then screw the mitre joint to the synthetic connectors. Comply with the adhesive setting time. (Diagram 2)



Diagram 1



Diagram 2

3.3 Enough space should be left between the frame and the masonry wall, to allow free alignment of the frame. If necessary the masonry wall should be modified. (Diagram 3)



Diagram 3

3.4 After the frame has been aligned and clamped, the door should be inserted for fine-tuning, and to check that it closes properly. Use struts in the hinge and lock areas (Diagram 4). Apply foaming adhesive to the frame (see notes and recommendations). (Diagram 5) For sound-insulation purposes the remaining space between the wall and the frame should be filled with mineral wool or other appropriate material. (Diagram 6)



Diagram 4

3.6 If a floor seal (Schall-Ex) is built in, adjust this with the pressure screws in the door rebate, so that the sealing lips press lightly against the finished floor. (Diagram 9)



Diagram 9



Diagram 5



Diagram 6

3.5 Apply adhesive to the mitre surfaces, and screw the architrave to the mitre joints. (Diagram 7) Apply individual beads of adhesive to the grooves of the jamb components and push in the glued architrave until it is flush with the wall. The architrave can be adjusted by $-0/+15$ mm. (Diagram 8)



Diagram 7



Diagram 8

4. Notes and recommendations

Regardless of what purpose door is being installed, RAL-RG 426 part II and HUGA recommend using a frame from the appropriate stress group (excerpt from RAL-RG 426)

Place of application	M	S
Residential area	•	
Apartment entrance door		•
Rooms for business purposes		•

The foaming adhesive applied should be a 2-K-PUR-polyurethane foam. It should be certified as suitable for the task according to ift-guidelines.

Mounting doors of up to 40 kg in weight:

at least 3 points on each side of the frame at the height of the hinges and striking plates. The foaming adhesive should be applied over the entire width of the frame.

When mounting doors containing a large percentage of glazing (e.g. riva, sueno, all-glass door) the „HUGA-steel hinge recess ST84 Art-No. 401164“ must additionally be used.

Mounting doors of up to 60 kg in weight:

at least 3 points on each side of the frame at the height of the hinges and striking plates. The foaming adhesive must be applied to at least 30% of the area. Apply foam over the entire width of the frame. „HUGA hinge reinforcement Art-No. 412106“ must be used. The bag of fittings cannot be utilized with flush moulded frames.

Mounting doors of up to 80 kg in weight:

at least 3 points on each side of the frame at the height of the hinges and striking plates. The foaming adhesive must be applied to at least 30% of the area. Apply foam over the entire width of the frame. HUGA's „Bag of fittings for frame conversion to stress group S“ must be used when connecting the frame to the wall.

With flush-moulded frames, the fittings are designed for the specific door weight, and the frame needs only to be attached to the masonry. The attachment points are concealed beneath the striking plate and the hinge recess. These visible fittings should first be removed, the frame secured, and then the fittings should be remounted.

This should always be followed by an additional application of foaming adhesive to the upper corners of the frame.

Mechanical connection

Where doors have a weight of over 60 kg, the HUGA moulded frame of stress group S needs an additional heavy-duty connection between frame and wall. (e.g. Fischer S10 H 120 RS). Using the HUGA drilling jig, for instance, drill into the frame and through to the masonry at 45° behind the seal in the upper hinge region. Insert a dowel and then drive in a screw. Take care that the frame does not become twisted. The screw head will then be hidden by the seal. (Diagram 10)



Diagram 10

In accordance with DIN 18101, the frame is placed on the finished floor level (FFL), the clearance between the HUGA door and the FFL is approx. 5 mm. If less clearance is desired, then the upright frame sections must be trimmed accordingly. Do not place frame immediately on top of marble, tiled or parquet flooring. Seal the lower edge of the frame with jointing compound to protect against moisture. (Diagram 11)



Diagram 11

5. Installation notes

Timber is a natural product with its own qualities and characteristics. As it reacts to changes in humidity, we advise against installing doors and frames in rooms with more than 60% relative humidity (observe humidity levels in new developments). When masking the doors and frames (e.g. when painting, particularly rough plaster), the directions of the adhesive tape manufacturer must be observed. The wrong masking tape can damage the surface finish.