

Opening pull left (SX)      Opening pull right (DX)

FFL

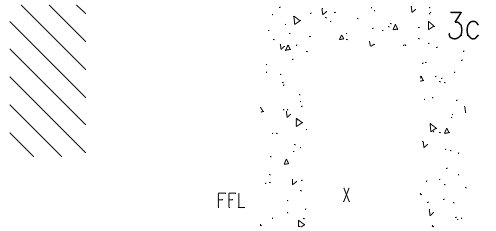
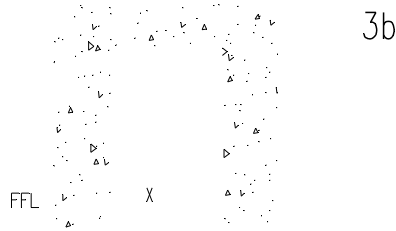
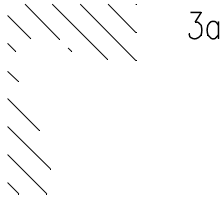
Be sure that the walls are made of blocks, bricks or homogeneous cement with a density of  $1200 \pm 400 \text{ kg/m}^3$  and a thickness of min. 150 mm.

If the frame rests on the finished floor carefully detach internal distance profile.

APPLICATION WITH WALL ANCHORS

APPLICATION WITH STEEL GRUB SCREWS

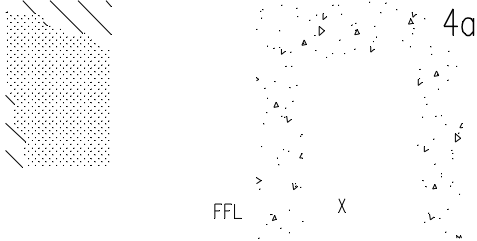
APPLICATION WITH PLASTIC GRUB SCREWS



Bend up the frame-brackets and mark on the wall their positions respecting the FFL level. Create the holes in the wall for the brackets.

Insert a 1 cm spacer under the door leaf with FM L 1000 (X). Temporarily immobilise the door in the wall opening, using a spirit level, true to the wall, the finished floor and the parallel walls.

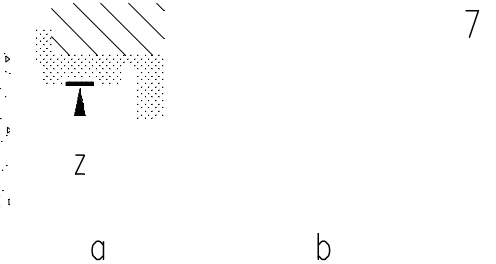
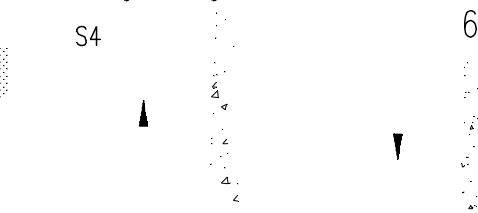
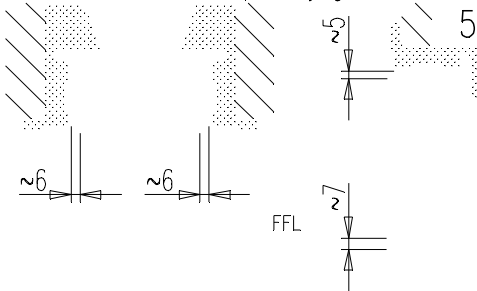
Insert a 1 cm spacer under the door leaf with wall FM L 1000 (X). Bend the wall anchors appropriately, temporarily immobilise the door in the wall opening, using a spirit level, true to the wall, the finished floor and the parallel walls.



Insert a 1 cm spacer under the door leaf with FM L 1000 (X). Temporarily immobilise the door in the wall space, using a spirit level, true to the wall, the finished floor and the parallel walls and fix the wall anchors with quick drying cement.

Fix the frame using the holes prepared under the thermal expansion seal, using grub screws Würth Art. Nr. 0910436112 (not supplied), starting with the mounting side hinges.

Screw the wall anchors through the prepared holes, using plastic expansion screws Hilti, HRD-UGS  $\varnothing 10 \times 100 \text{ mm}$  and the doorframe in hinges zone, using the Würth art. nr. 0910436112 steel anchor bolts. Expansion screws and anchor bolts are not supplied.

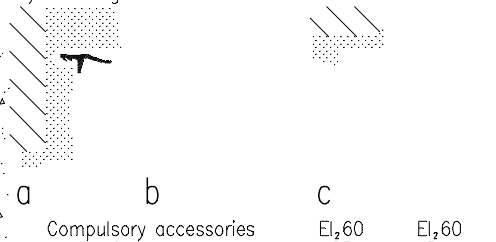
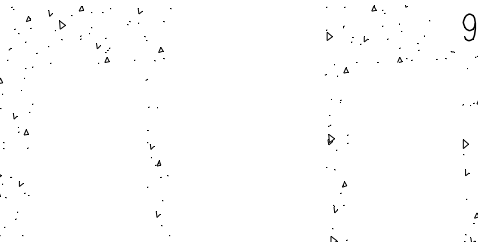
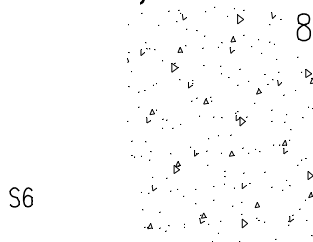


Fill the space between the frame and the wall with mortar without bending the frame, cover the frame with plaster and check the leeway.

Load bearing hinges:

To raise the door leaf: unscrew the upper blocking screw, screw on the lower one, screw on the upper one again. To lower the door leaf: unscrew the lower blocking screw, screw on the upper one. Operation to be carried out with the max. care with the aid of a lever.

a) Remove spacers between frame and leaf, install handle and glue the self expanding gasket on to the top part of frame.  
b) Installing the door handle.



Spring hinges:

Wind up the spring hinge in the opening direction inserting the tension pin. Even if self closing is not needed or overhead doorclosers are installed, wind up the hinge spring anyway blocking it with the tension pin.

With internal strike profile

Without internal strike profile

If the internal strike profile is not going to be used, using a knife, cut the internal traverse. Univer doors are certified with and without the interior strike profile.

Compulsory accessories for door:

- a) Strike seal FF/CR
- b) Automatic under door seal
- c) Door closer (anchored in the wall / however, the spring hinge can bear a light load).

EI<sub>2</sub>60 C5

EI<sub>2</sub>60 Sm

**GENERAL NOTES**

**STANDARD:** the assemble instructions have to be followed in every detail to respect the test conditions and assure the perfect functioning of the door, including the self-closing. Furthermore a regular service according to Decree 10th March 1998 is necessary.

**LIABILITY:** It is duty of the installer to follow the installation instructions in any detail, specifically point 6 and 8, in order to guarantee the safety of the end-users.

**CEMENT WORKS:** It's under customer's responsibility to execute the brickworks according to the norm EN 1634-1, to fill the frames with grout as indicated in box 5 of the present instructions and to keep the wall integral in particular in the anchor points of the door.

**FINISHINGS:** the serial door is finished with an epoxy-polyester powder paint oven-baked at 180° C. The surface is goffered and particularly resistant.

In case an additional paint is desired we advise to follow these instructions:

- make smooth the surfaces with sandpaper and dust them
- give a first hand of opaque 2 components epoxide using the product ALCEA EPOX 5203 / 0059 (beige)
- finish the surfaces with enamels or paints to your choice.

**CLEANING:** the doors are supplied from the factory clean and packed. We suggest to use a clothe and soaped water only. Do not scratch the surfaces.

**WARRANTY:** the manufacturer gives warranty as per Italian law (C.C.1495). Any claim for missing or damaged goods have to be recorded by inserting a written remark in the delivery notes and must be notified the maximum within eight days from the date of materials receipt.

**BRAND NAME SERIAL ACCESSORIES CE :**

Locks Std 015:	<b>CE</b> CPD-0497-1017	- EN 12209:2003/AC	- 3 M 3 1 0 C 2 H A 2 0
Locks Std 015:	<b>CE</b> 0432-BPR-0082	- EN 12209:2003/AC	- 3 M 3 1 0 C - H A 2 0
Hinges :	<b>CE</b> 001AJ/0	- EN 1935:02	- 4 7 7 1 1 4 0 14

**MAINTENANCE INSTRUCTIONS FOR UNIVER DOORSETS**

All fire resistant doorsets need regular maintenance in order to verify that no damage occurred and that they close regularly. The scheduled maintenance shall guarantee that the leaf swings correctly and that the self closing mechanism works properly. The doors shall be kept free from any obstructions. Doors must be kept free from obstructions (Law 19.09.1994, No. 626, M.D. 10.03.1998).

Any 5.000 opening cycles but at least every 6 months the following operations shall be carried out:

Lubricating the ball-bearing hinge.

Lubricating the spring hinge and the spring after removing the tension pin.

Wind up the spring inserting the tension pin. Verify that the closing force is sufficient to shut the door if opened to 30±2° .

Lubricating the lock and the latch.

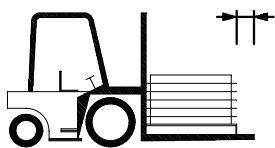
Verify the regular functionality of the doorset's accessories (handle, antipanic bar, overhead doorcloser etc.). Their mobile parts shall be lubricated, too.

In case of irregular functioning of the doorset or its accessories contact an authorized installer or replace the damaged accessories.

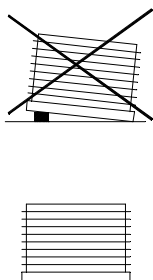
N.B. For lubrication use viscous products.

**STORAGE INSTRUCTIONS:**

It is duty of the company/person taking over the goods to store them in a suitable place so that they will be protected from the natural agents and from the direct sun rays. If during transportation or truck unloading it rains or snows on the goods it is necessary to remove immediately the nylon film from each leaf and frame, put the goods in vertical position to dry them appropriately. In case of external visible defects on doors, they have to be marked in the copy of the transportation document to be returned to the forwarder and notified to the manufacturer notified to the manufacturer within 8 days from the delivery date by registered mail. Goods with defects never have be utilised or assembled, they should be stored at disposal for controls by the manufacturer appointed person.



Move the materials with appropriate means.



Store and handle the materials with care.



Assemble by qualified staff only.



Do not expose the materials to the natural agents.