Fixing Anchors

Assembly steps

Fixing to the formwork	Preparing for assembly	Screwing-in and fixing the bolt ①

Case A
with
plastic nailing plate

Nailing plate
type 2275 or 2280

Assembly of
nailing plate

1.

Unscrew the
nailing plate

2.

washers

M②

3.
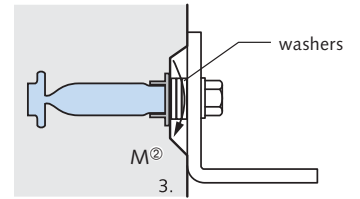
Case B
with
plastic fixing pin

Fixing pin
type 2250

Drill hole
in formwork

1.

Unscrew
remainder
of fixing pin
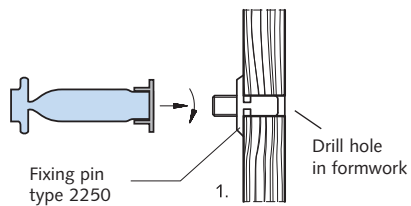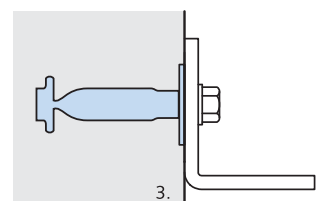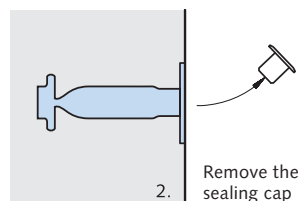
2.

washer

M②

3.
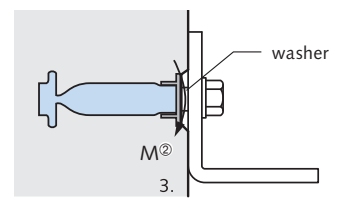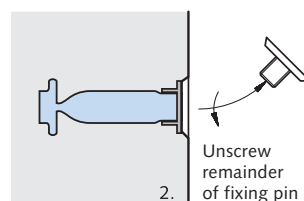
Case C
Fixing anchors
with
nailing plate

Plastic sealing cap
type 2244

Fixing of
sealing cap

1.

Remove the
sealing cap

2.

3.
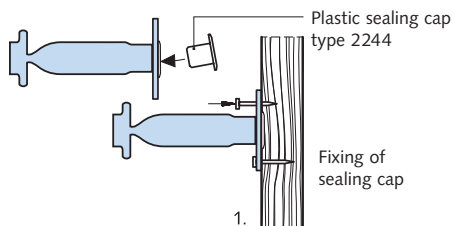
Case D
with hexagonal bolt

1.

Unscrew the
hexagonal bolt

2.

3.
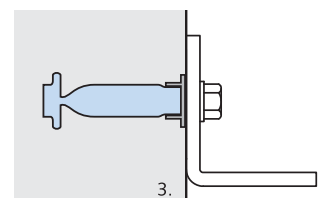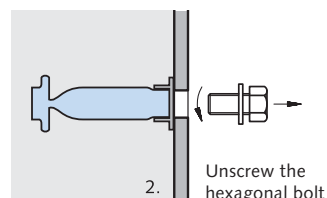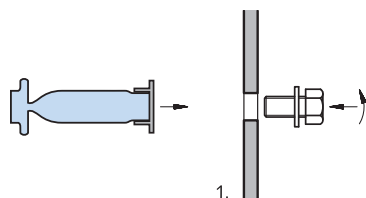
Case E
with thread adapter
and hexagonal bolt

Thread adapter
type 2600

Assembly of
thread adapter

1.

Unscrew the
hexagonal bolt
and thread adapter

2.

3.
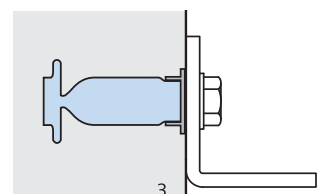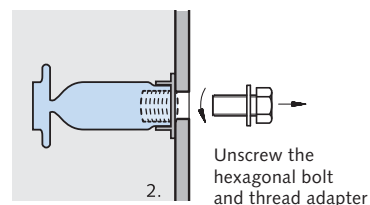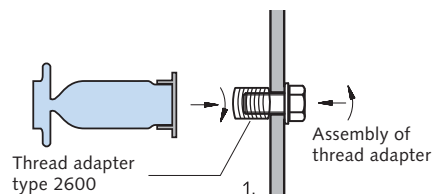
Case F
with magnetic
fixing plate on
steel formwork

Magnetic
fixing plate

1.

Unscrew
magnetic
fixing plate

2.

washers

M②

3.
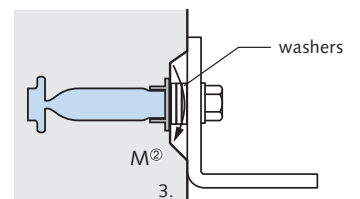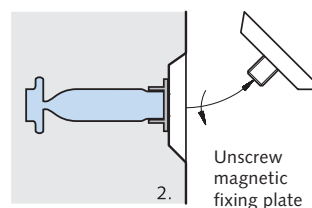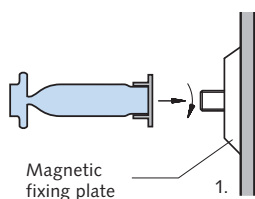
① Torque T_{inst} → see table on page 38   ② Bending of bolt has to be verified! (Bolt is not included in scope of delivery)

Installation parameters

General notes on installation

Before installing the fixing components, check whether the inside of the sockets and sleeves are dry and free from any contamination. To guarantee best possible bond between the fixing anchor and the concrete, make sure that the surface of the anchor is free from dirt, oil, etc.
The concrete has to be poured carefully; please avoid direct contact between the compacting device and the fixing anchor.

The fixing anchors may be embedded flush or recessed in the concrete.
It is strongly recommended to use washers to shim if anchors are recessed. After striking the formwork, the inside of the threaded sockets must be protected against ingress of water, dirt or oil until required for use i.e. for fixing components. Ensure the inside of the socket remains dry after final assembly.

The fixing component (bolt with standard metric thread) has to be selected according to the static engineer's specifications. Minimum screw-in length (s) for bolts and maximum installation torque (T_{inst}) can be found in the adjacent tables.
The fixing anchor must not be subjected to full load capacity until the concrete has reached its final strength.

The complete assembly instruction for DEMU Fixing anchors in various languages can be found at www.halfen.com

T-FIXX®

Thread-size	Minimum screw-in length s [mm]	Torque T_{inst} [Nm]*
M10	17.0	≤ 8
M12	20.0	≤ 10
M16	26.0	≤ 30
M20	32.0	≤ 60

Bolt anchor 1988

Thread-size	Minimum screw-in length s [mm]	Torque T_{inst} [Nm]*
M12	16.4	≤ 10
M16	21.2	≤ 30
M20	26.0	≤ 50
M24	30.8	≤ 90
M30	38.0	≤ 180
M36	45.2	≤ 250
M42	52.4	≤ 300

Bolt anchor 1985

Thread-size	Minimum screw-in length s[1] [mm]	Torque T_{inst} [Nm]*
M12	18.0	≤ 10
M16	24.0	≤ 30
M20	30.0	≤ 50
M24	36.0	≤ 90

[1] value s = 1.5 x d_{nom}

Bolt anchor 1980-P / Bar anchor

Thread-size	Minimum screw-in length s[2] [mm]	Torque T_{inst} [Nm]*
M12	14.4	≤ 10
M16	19.2	≤ 30
M20	24.0	≤ 50
M24	28.8	≤ 90
M30	36.0	≤ 180
M36	43.2	≤ 250
M42	50.4	≤ 300

[2] value s = 1.2 x d_{nom}; for bar anchors type 3016 (secured to the formwork with integrated nailing plates), the values have to be increased by 25 % → (s = 1.5 × d_{nom})

Socket anchors

Thread-size	Minimum screw-in length s[3] [mm]	Torque T_{inst} [Nm]*
M6	7.2	≤ 1
M8	9.6	≤ 2
M10	12.0	≤ 4
M12	14.4	≤ 8
M16	19.2	≤ 17
M20	24.0	≤ 25
M24	28.8	≤ 53
M30	36.0	≤ 96

[3] value s = 1.2 x d_{nom}; for socket anchors type 1130, 1130-G (secured to the formwork with integrated nailing plates), the values have to be increased by 25 % → (s = 1.5 × d_{nom})

*Tightening torque values apply for unlubricated bolts.