

TYPICAL HOOK & PLUG ANCHOR – MASONRY & CONCRETE (1)

HR + HKR Scaffolding Hook & Plug ø14, 70mm embedment of plug

External Scaffold Hook Tie Coupler

Ensure tie chord tube is butted against wall

SECTION

PLAN

ELEVATION

Inside standard

Tie chord tube fixed across both standards using load bearing couplers

HR + HRK Scaffolding Hook with Plug

Proposed tie for use in all locations.

HR-12120 (Hook)
HRK-14070 (Plug)

SWL Into Concrete (C20/25); 8.10 kN

SWL into Brick (15MPa); 5.15 kN

TYPICAL SELF TAPPING SCREWBOLT – MASONRY & CONCRETE (2)

M12 Excalibur screw bolts fixed into brick facade – 100mm Long, 90mm Embedment

SECTION

PLAN

ELEVATION

Welded butt tubes fixed to inside standard

Inside standard

M12 Excalibur Screwbolt

Proposed tie into brick or concrete where a stronger tie is required.

Typical SWL into Concrete (C30); 14.33 kN

Typical SWL into Brick (Fletton); 5.27 kN

TYPICAL DROP-IN EXPANDING ANCHOR – CONCRETE ONLY (3)

Fix M16 Hilti HKD-E push in anchors, 65mm long, 100mm embedment into concrete

SECTION

PLAN

ELEVATION

Hilti ring

Butt tube through Hilti ring

Ensure tie chord tube is butted against wall

Hilti ring fixed into HKD anchor

Inside standard

Tie chord tube fixed across both standards using load bearing couplers

M16 Hilti HKD-E Push-in Anchor

Proposed tie for use in concrete where heavy duty ties are required.

SWL Into Concrete (C20/25); 12.60 kN

SWL into Brick: N/A

TYPICAL CHEMICAL TIE – MASONRY & CONCRETE (4)

M16 threaded rod & resin to form chemical tie into brick facade. 200mm embedment into brickwork

SECTION

PLAN

ELEVATION

Band & plate couplers to fix chemical tie to scaffold

Inside standard

Tie chord tube fixed across both standards using load bearing couplers

Hilti or Wurth Chemical Ties with Threaded Rod

Possible tie for use in extremely poor structural locations – (Currently not allowed for).

Typical SWL Into Cracked Concrete; 24.3 kN*

Typical SWL into Brick; TBC kN*

*Loads depend on product chosen & base material conditions.