

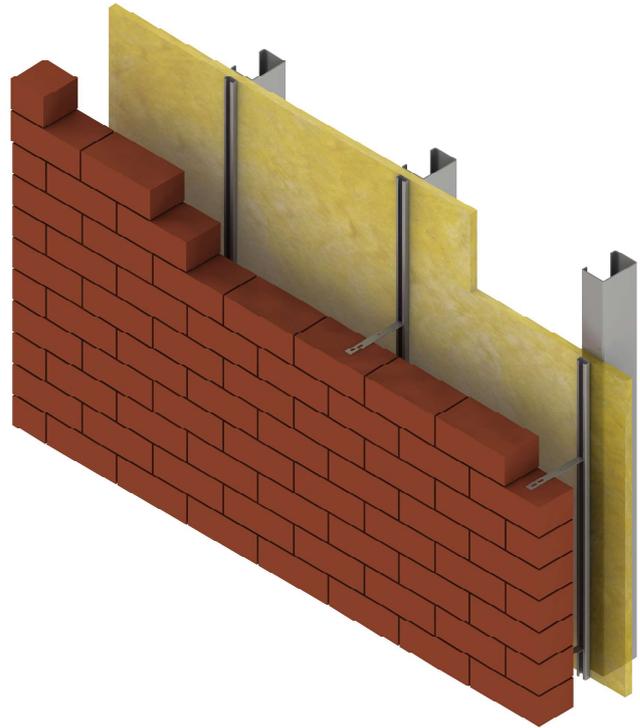
HMP-25/14 Brick restraining system

Brickwork restraint channels type **HMP-25/14** and the corresponding channel ties type **HWT-D-25** are used to tie back the outer leaf brick cladding wall on to a building substrate. The substrate can be either concrete or steel stud.

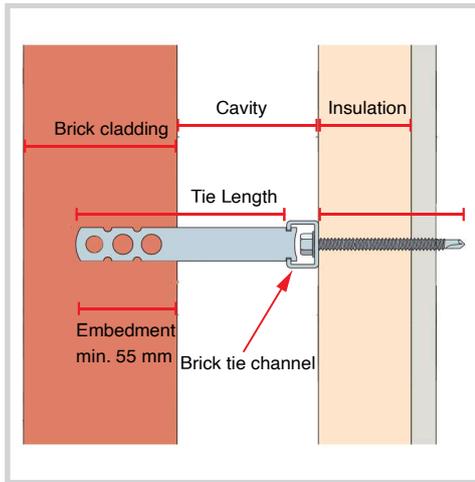
The attachment of the **HMP-25/14** brick tie channel is done with a suitable screw that drills through any type of insulation up to 220 mm thickness. The channels have pre-drilled holes with spacing of 100 mm. Self drilling screws to drill and tab into light gauge steel studs or concrete screws that drills to concrete are used for easy and fast attachments of the brick tie channel.

HWT-D-25 channel ties are available to suit cavities up to 265 mm. The channel ties fit on to the channel by rotating 90 degrees and easily positioned in any location along the length of the channel.

Compression sleeves are supplied in instances where the restraint system has to be stiffened against high compression loads. The components can be supplied are stainless steel grade AISI 304 and AISI 316.



HMP-25/14 & HWT-D-25 Installation



System Components:

- HMP-25/14 Channel in 2700 mm and 3000 mm as standard lengths.
- Threaded fixing screws available for light gauge steel and concrete. Screws can drill through insulation up to 220 mm thick.
- HWT-D-25 channel ties in different length to accommodate up to 259 mm open cavity.
- Compression sleeves supplied to correspond with the insulation thickness for enabling stability of the restraint system under compression load.
- All components are stainless steel grade AISI 304 - 1.4301 & AISI 316 - 1.4401

Wall Tie Types as per reference to PD 6697 and BS EN 1991-1-4

Required wall tie type	Application	Building height (m)	Geographical Location
Type 1	Heavy duty tie, suitable for most building types	Any height	Suitable for most sites. However, for relatively small or unusually shaped buildings in vulnerable areas, tie provision should be calculated
Type 2	General purpose tie, suitable for residential and small commercial buildings	15	Suitable for flat sites where basic wind speed is up to 31m/s and altitude is not more than 150m above sea level
Type 3	Basic wall ties, suitable for residential and small commercial buildings	15	Suitable for flat sites in towns/cities where basic wind speed does not exceed 27m/s and altitude is not more than 150m above sea level
Type 4	Light duty tie, suitable for box-form domestic dwellings	10	Suitable for flat sites in towns/cities where basic wind speed does not exceed 27m/s and altitude is not more than 150m above sea level

Notes: Refer to PD 6697: 2010 and BS EN 1991-1-4: 2005 for complete information.

HMP-25/14 Restriant System Performance Details

Insulation thickness (mm)	Vertical Tie Spacing (mm)	Spacing of the Fixings (mm)	Wind Load Capacity (kN/m ²)
Max. 220	300	400	3.31
Max. 220	375	400	2.65
Max. 220	450	400	2.21
Max. 220	675	400	1.58

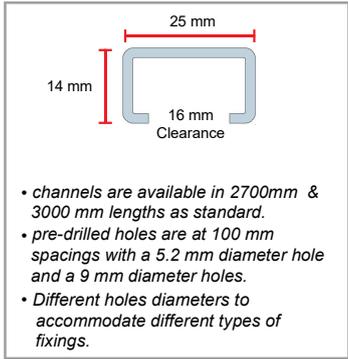
Notes: Centres shown achieve equivalent tie type performances to PD 6697 6.2.2.5

HMP-25/14 Brick Tie Channel



HMP-25/14 Brick Tie Channel Product Details		
Product Code	Channel Length (mm)	Drilled hole spacing (mm)
HMP-25/14-2700	2700	100
HMP-25/14-3000	3000	100

- Stainless steel AISI 304-1.4301 & AISI 316-1.4401
- 2700 & 3000 mm standard lengths



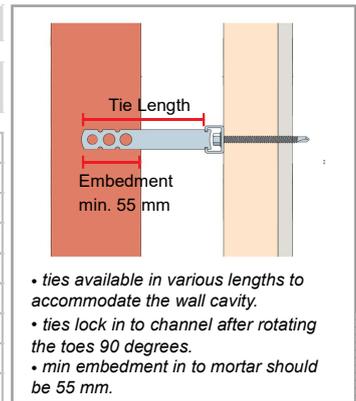
- channels are available in 2700mm & 3000 mm lengths as standard.
- pre-drilled holes are at 100 mm spacings with a 5.2 mm diameter hole and a 9 mm diameter holes.
- Different holes diameters to accommodate different types of fixings.

HWT-D-25 Channel Tie



HWT-D-25 Channel Ties Product details		
Product Code	Tie Length (mm)	Cavity (mm)
HWT-D-25-100	100	40-60
HWT-D-25-125	125	60-90
HWT-D-25-150	150	90-110
HWT-D-25-175	175	110-140
HWT-D-25-200	200	140-170
HWT-D-25-225	225	165-190
HWT-D-25-250	250	190-215
HWT-D-25-275	275	215-240
HWT-D-25-300	300	240-265

- Stainless steel AISI 304



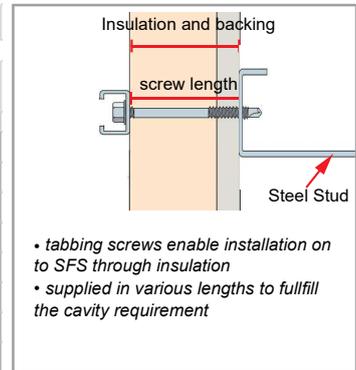
- ties available in various lengths to accommodate the wall cavity.
- ties lock in to channel after rotating the toes 90 degrees.
- min embedment in to mortar should be 55 mm.

JT2 D6 Self drilling screw



JT2-5.5/6.3 Self Drilling Screws			
Product Code	Screw Length (mm)	Overlay (mm)	Insulation & backing thickness (mm)
JT2 D6 5.5/6.3-62	62	30	25-45
JT2 D6 5.5/6.3-82	82		35-60
JT2 D6 5.5/6.3-102	102		45-80
JT2 D6 5.5/6.3-122	122		60-95
JT2 D6 5.5/6.3-135	135		65-110
JT2 D6 5.5/6.3-152	152		80-125
JT2 D6 5.5/6.3-192	192		130-175
JT2 D6 5.5/6.3-262	262		175-220

- Stainless steel AISI 304



- tabbing screws enable installation on to SFS through insulation
- supplied in various lengths to fulfill the cavity requirement

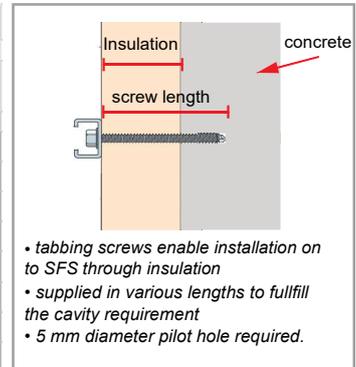
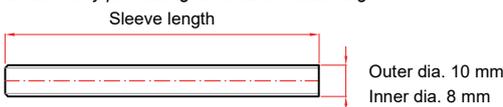
FBS 6.3 x 60 Concrete screw



FBS R 6.3 x 60 Concrete Screws			
Product Code	Screw Length (mm)	Pilot hole (mm)	Insulation & backing thickness (mm)
FBS R 6.3 x 60	60	5x30	25-45
FBS R 6.3 x 80	80		35-60
FBS R 6.3 x 100	100		45-80
FBS R 6.3 x 120	120		60-95
FBS R 6.3 x 140	140		65-110
FBS R 6.3 x 180	180		100-140
FBS R 6.3 x 220	220		120-160
FBS R 6.3 x 260	262		175-220

- Hardened steel with corrosion resistant coating

- Corresponds to the insulation thickness
- Supplied in various lengths to accommodate the insulation thickness
- compressive strength and stability of the channel tie system are both achieved by preventing the channel deflecting



- tabbing screws enable installation on to SFS through insulation
- supplied in various lengths to fulfill the cavity requirement
- 5 mm diameter pilot hole required.

HM-CPS Compression Sleeve

