

# ACS 25/15 Framifix

Used in conjunction with the ACS 4000 Range Channel Tie

- ✓ Exceeds Type 3 Capacity (PD 6697: 2010)
- ✓ Austenitic Stainless Steel (Grade 304)
- ✓ CE Marked (EN 845-1)
- ✓ CERAM Tested
- ✓ Masonry - Channel Tie
- ✓ 2.7m Standard Lengths



## Technical Data

ACS Frame Fix Ultra is designed to allow an outer leaf of a cavity wall constructed from masonry to be tied to light steel frame or other structural element. This is most commonly, but not exclusively through a rigid insulation board using a suitable fixing. The channel is fixed back to the structure via the pre-punched holes in the channel which are spaced at close centres to allow the fixing point to be selected depending on the application. Once fixed, ACS 4000 range ties can be positioned at any point along the channel to suit the coursing of the masonry panel.

## Test Results

	Mode of Test	Tie Feature	Maximum Declared Value (N)	BS EN 845-1 Required Value (N)	Mortar Class
BS EN 845-1 Brick Couplet Test	Compressive	Embedment End	4171	800	M2 (iv)
	Tensile		4314	1100	
	Compressive	Channel Tie End	1836	800	N/A
	Tensile		1107	1100	

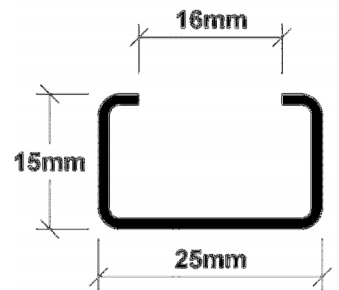


Table 1.0 – BS EN 845-1 Maximum Declared Load Values

For further information or technical assistance please contact the ACS Technical Department on 0870 850 0860 or email [technical@acsstainless.co.uk](mailto:technical@acsstainless.co.uk)

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# Technical Data Sheet

## Installation

The channel is typically fixed back to the SSF/Studwork through rigid insulation boards. Studs are normally set at 600mm horizontal centres; ties can then be positioned at any point along the length to suit the bed joint coursing at the required vertical centres. (Nominally 450mm)

## Frame Fix Design Resistances

Channel/Stud Max Horizontal CTRS	600	600	600	600*	600	600	600	600	mm
Channel Tie Max Vertical CTRS	225	300	375	450	450	600	600	600	mm
Fixings Max Vertical CTRS	337.5	337.5	450	450	562.5	562.5	675	675	mm
Max Wind Pressure (Factored) $\gamma_0 \cdot Q_k$	3.70	2.70	2.20	1.80	1.30	1.30	0.75	0.75	kN/m <sup>2</sup>
Max Wind Pressure (Unfactored) $Q_k$	2.47	1.80	1.47	1.20	0.87	0.87	0.50	0.50	kN/m <sup>2</sup>
Ties Per Square Metre	7.41	5.56	4.44	3.70	3.70	2.78	2.78	2.78	N <sup>o</sup>

Table 1.1 – Channel/Tie/Fixing Centres & Design Resistances

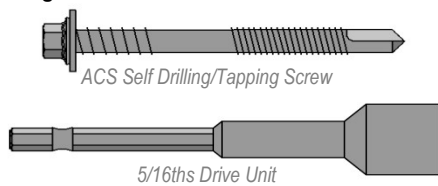
\* Standard System

## Fixings Screws

The ACS 25/15 Frame Fix Channel standard configuration is designed to fix back to the studwork at 450mm vertical centres. The pre-punched holes in the rear of the channel are spaced at 112.5mm centres so a fixing can always be positioned near to the end of the channel and the fixing centres can be varied to increase or reduce the load capacity as required (See Table 1.1). Self-tapping screws can be supplied to accommodate fixing through insulation board of up to 100mm as standard. Other lengths are available upon request.

ACS can supply and recommend the use of stainless steel screws for fixing the channel back to the studwork.

## Socket and Fixing



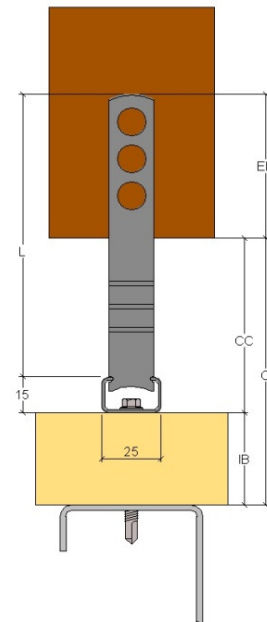
## Tie Length

Tie Reference	Tie Length (mm)	Clear Cavity Range (mm)
ACS4000/100	100	40-65
ACS4000/125	125	66-90
ACS4000/150	150	91-105
ACS4000/175	175	106-130
ACS4000/200	200	131-155
ACS4000/225	225	156-180
ACS4000/250	250	181-205
ACS4000/275	275	206-230
ACS4000/300	300	231-255

Table 1.2 – 4000 Range Tie Standard Lengths

Insulation Thickness	Stainless Steel Screw	Hardened Steel Zinc Plated Screw
25-40mm	25/15FS65-SS	25/15FS65-BZP
40-60mm	25/15FS75-SS	25/15FS75-BZP
60-70mm	25/15FS85-SS	25/15FS85-BZP
70-90mm	25/15FS105-SS	25/15FS105-BZP
100mm	25/15FS115-SS	25/15FS115-BZP
Drive Unit	TSDU-SS	TSDU-BZP

Table 1.3 – Tech Screw Lengths & References



L	Tie Length	Eb + CC – 15
Eb	Embedment	62.5mm (Min 50mm)
CC	Clear Cavity	C – IB
C	Structural Cavity	Varies
IB	Insulation Board	Varies

Table 1.4 – Cavity Makeup Detail

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