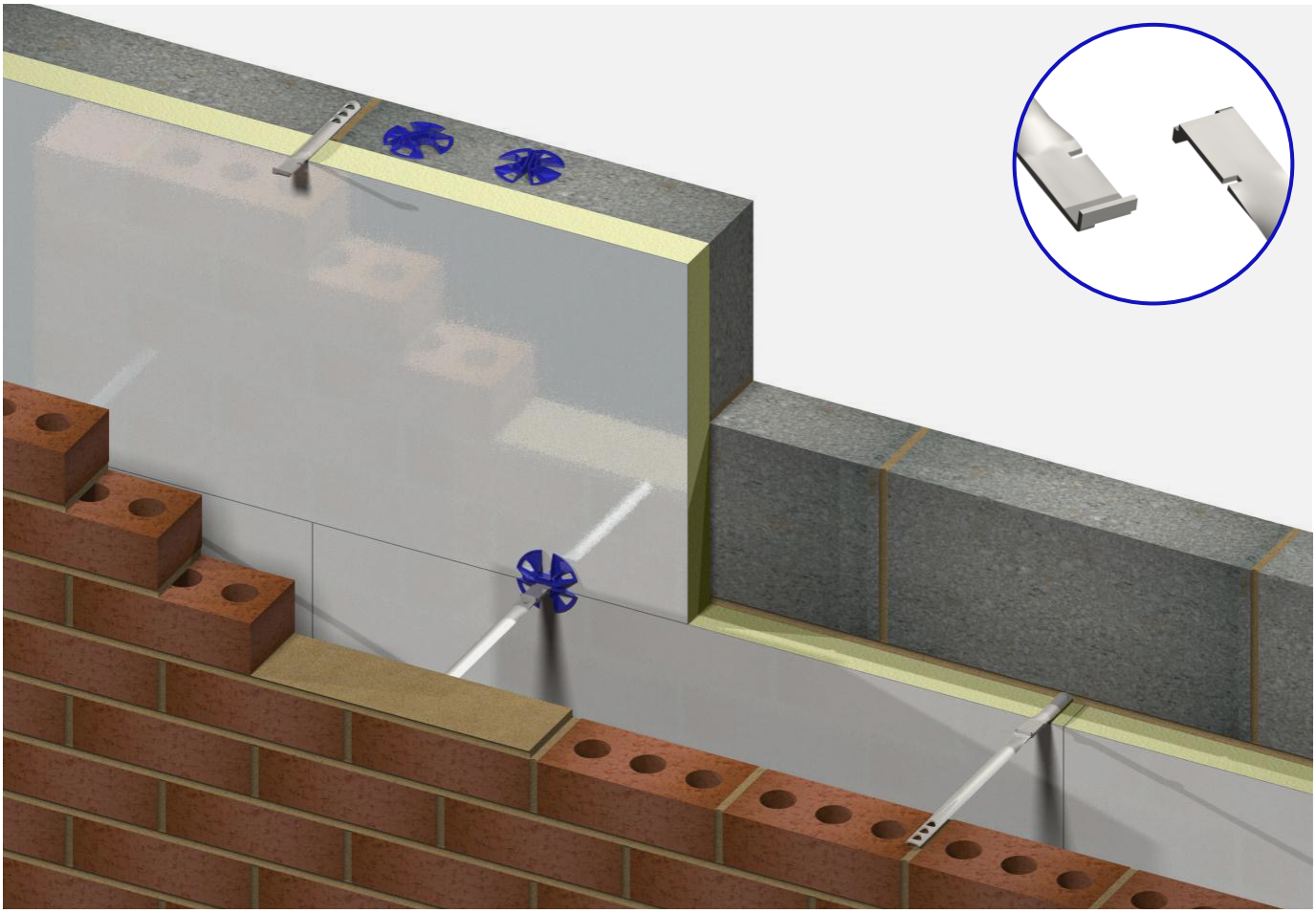
ACS

Technical Data Sheet

Two Part Tie

Two Part Tie

Check for updates



Technical data

UK CA | CE UK NI

BS EN 845-1

The ACS Two Part Tie is a standard duty cavity wall tie designed to exceed the requirements of a Type 2 Tie up to a 300mm cavity as described in PD 6697: 2019 when installed in line with the following guidance. For cavities up to 400mm, Type 2 performance can still be achieved with a greater density of ties per metre squared. The tie is resistant to water crossing a cavity due to the unique connection feature. This feature serves to prevent the transgression of water from the outer to the inner leaf of a building even when installed with an angle of up to 5° in an unfavourable direction. The minimum mortar joint thickness for which this tie is intended for use is 10mm.

Published 11/24 Version 1.1

Check that you are using the most up to date version of this Data Sheet at: acsstainless.co.uk/downloads

0113 391 8200
info@acsstainless.co.uk

acsstainless.co.uk/products/wall-ties/cavity-wall-ties/two-part-wall-tie

ACS Stainless Steel Fixings Ltd
ACSStainlessSteelFixings

Two Part Tie

Check for updates

Test results

Mode of Test	Max Cavity (mm)	Maximum Declared Value (N)	Mortar Class
Compressive	300	1452N	M2 (iv)
Tensile		1860N	
Compressive	400	1040N	
Tensile		1860N	

Product highlights

Type 2 Capacity
(PD 6697: 2019) Up to 300mm Cavity

Austenitic Stainless Steel
(Grade 304)

CE Marked
(BS EN 845 - 1)

Lucideon Tested

Masonry – Masonry Tie

150 - 400mm Cavities

Two Part Tie

Check for updates

Installation

Cavity walls constructed with a large clear cavity can often be problematic when the inner and outer leaves are built independently. Issues with overturning of blocks due to the weight of the tie and maintenance of a horizontal level may arise.

It is also advisable to avoid using long protruding ties when building the outer leaf separately to the inner as they may cause injury and are susceptible to damage.

The Two Part Tie allows a separate inner section to be built into the block or internal leaf, leaving a short slotted connection exposed for the connection of the outer sections, which are installed during the construction of the outer leaf. The standard inner sections are available in two standard lengths, either 170mm or 220mm in length to suit a maximum insulation board thickness of 70mm or 120mm consecutively (alternative lengths are available upon request). The Two Part Tie requires an embedment of 62.5mm into the bed joint in both leaves. The outer sections are available in a range of lengths to suit cavities from 150 - 400mm.

ACS Multi-Purpose Insulation Retaining Clip

Tie density & spacing

Wall ties should typically be installed at a density of at least 2.5 ties/m2 for walls in which both leaves are thicker than 90mm. To ensure a type 2 panel capacity, the ties should be installed not exceeding 900mm horizontal centres and 450mm vertical centres staggered at alternate courses up to a 300mm cavity and 600 × 450mm to maintain a Type 2 load capacity up to a 400mm cavity.

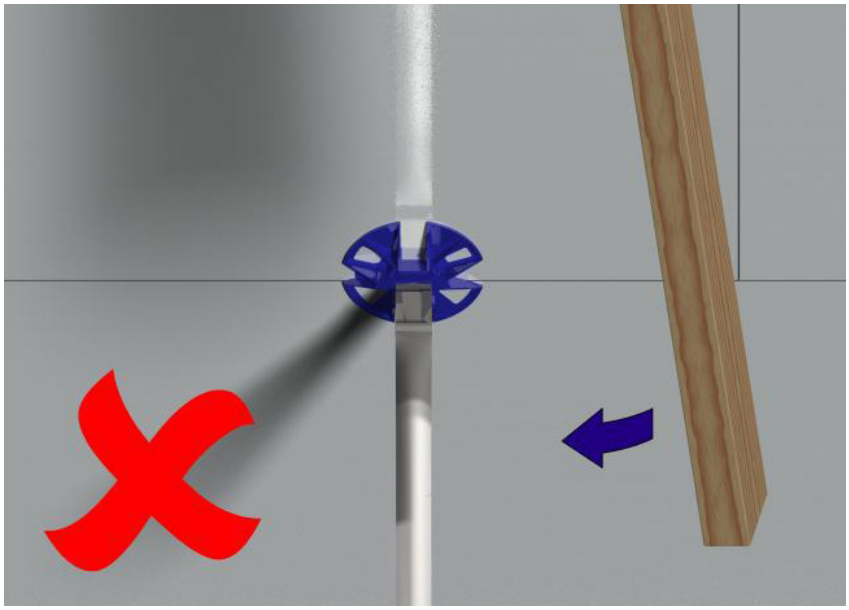
Wall ties should be evenly distributed over a wall except around openings or at an un-bonded panel edge where the tie density should be increased to 225mm vertical centres, ensuring there are ties within 225mm of the opening or edge.

Two Part Tie

Check for updates

Best practice

Care should be taken when cleaning mortar drops and debris from the ties after installation. DO NOT strike the ties from the side to avoid opening the jointed connection. Test data has proved the ties have a good resistance to low level lateral impact but recommend that it be avoided where possible to maintain the ties structural integrity.



Tie references

Tie Reference	Cavity Range (mm)	Outer Length for 170mm Inner (mm)	Outer Length for 220mm Inner (mm)
ACSTPT/150	*150	139	89
ACSTPT/175	151-175	164	114
ACSTPT/200	176-200	189	139
ACSTPT/225	201-225	214	164
ACSTPT/250	226-250	239	189
ACSTPT/275	251-275	264	214
ACSTPT/300	276-300	289	239
ACSTPT/325	301-325	314	264
ACSTPT/350	326-350	339	289
ACSTPT/375	351-375	364	314
ACSTPT/400	376-400	389	339

*for smaller cavities use the ACS 2000 range heavy-duty cavity tie

ACS

Built on tradition. Driven by innovation.

Get in touch to learn more about Wall Ties and the full range of ACS products.

0113 391 8200
info@acsstainless.co.uk
acsstainless.co.uk

ACS Stainless Steel Fixings Ltd
ACSStainlessSteelFixings