

Installation Guide

Channel Wall Ties

Channel ties can be used to provide restraint for external masonry leaves in conjunction with Leviat's range of cast-in and surface-fixed channels. Our channel ties have head profiles designed to suit the specific channel sections and, once slotted in place, provide unlimited adjustment along the length of the channel.

Channel wall ties are available to suit the following channel profiles:

- Omega 21/18
- 28/15
- 30/20
- 36/8*
- 38/17
- 40/25

*36/8 continuous channel is only suitable for shear applications, please refer to our Wall Ties and Restraint Fixings brochure for more information.



Recommended Tie Spacing for Cast-in Channel Ties for Masonry Cavity Applications

Tie Length (mm)	Cavity Width (mm)	Type 1	Type 2
125	45-69	600 X 450	900 X 450
150	70-94	600 X 450	900 X 450
175	95-119	750 X 450	900 X 450
200	120-144	750 X 450	900 X 450
225	145-169	750 X 450	900 X 450
250	170-194	750 X 450	900 X 450
275	195-219	750 X 450	900 X 450
300	220-244	300 X 450	600 X 450

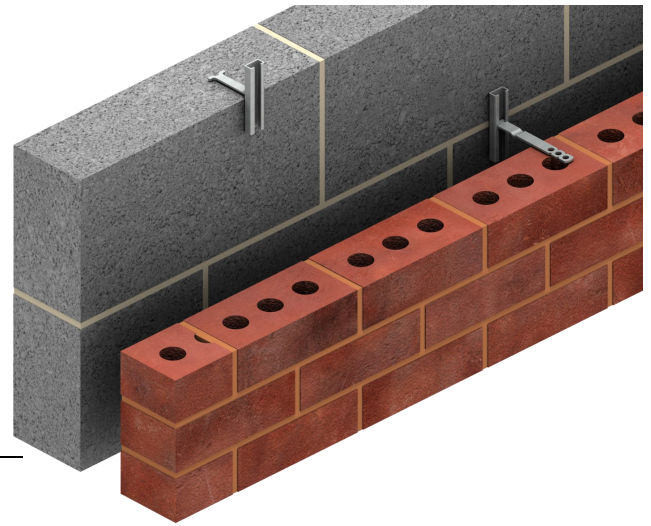
Note: Centres shown achieve equivalent tie type performance to PD 6697: 2019.

Channel wall ties can also be used with surface-fixed 28/15, 38/17 and 40/25 channels. However, it should be noted that adjustment of the tie along the channel can be hindered by the channel fixings and plate washers. Please contact the Leviat Technical team for further information and guidance regarding specific applications.

Ancon Fastrack

Ancon Fastrack Channel can be built into the inner leaf of blockwork, ready to take a channel tie to provide restraint for the outer leaf. Cavities between 50 and 250mm can be accommodated and dowelled channel ties are available for use with stonework. Two versions of Fastrack are available; 28/15 and 36/8. Both offer Type 2 performance to PD 6697:2019.

The recommended tie length for use with Ancon Fastrack channel is 'cavity width plus 50mm'.



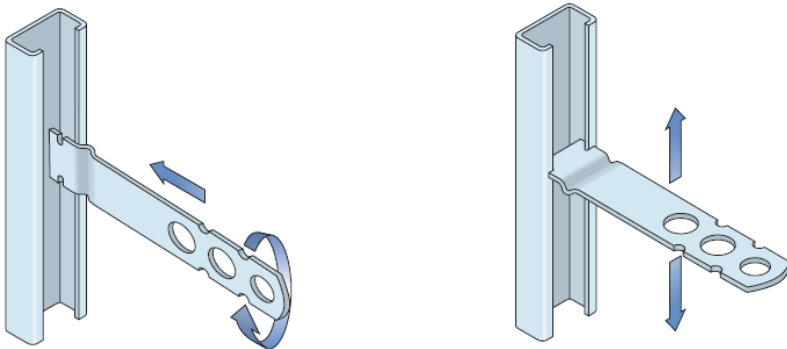
Recommended tie spacing for Ancon Fastrack

Tie Reference	Type 1	Type 2	Type 3	Type 4
28/15 Fastrack	450 X 450	900 X 450	900 X 450	900 X 450
36/8 Fastrack	450 X 450	900 X 450	900 X 450	900 X 450

Note: Centres shown achieve equivalent tie type performances to PD 6697:2017.

Installation Guidance

Channel wall ties are important to the stability of masonry and failure to install them correctly may lead to damp penetration, cracking or even the collapse of walls. The channel end of the tie should be inserted between the lips of the channel and rotated into place so that the tie engages with both channel lips. The drip part of the tie should point downwards and be positioned near the centre of the open cavity. Installed ties should be clear of mortar droppings to allow the drip to function and prevent water from crossing to the inner leaf.



The safety end of the tie should be pressed down in fresh mortar on the outer leaf with a minimum embedment of 55mm. Wall ties should be surrounded by mortar and not simply positioned directly onto masonry with mortar placed around them.

Ideally, channel ties should be installed with a slight fall to the outer leaf, not towards the inner leaf as this could provide a path for moisture to cross the cavity.

Note – for information regarding installation of cast-in or surface fixed channels, please refer to our Channel installation guide.

Separate installation guidance and literature is also available for the **Ancon 25/14 Restraint System** and range of thermally efficient **Teplo-Channel Basalt Fibre Wall Ties**. Please contact the Leviat Technical team for further information.

The Construction applications and details provided in this guide are indicative only. In every case installation should be entrusted to appropriately qualified and experienced persons. Normal handling precautions should be taken to avoid physical injury. The company cannot be held responsible for any injury as a result of using our products, unless such injury arises as a result of our negligence.

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