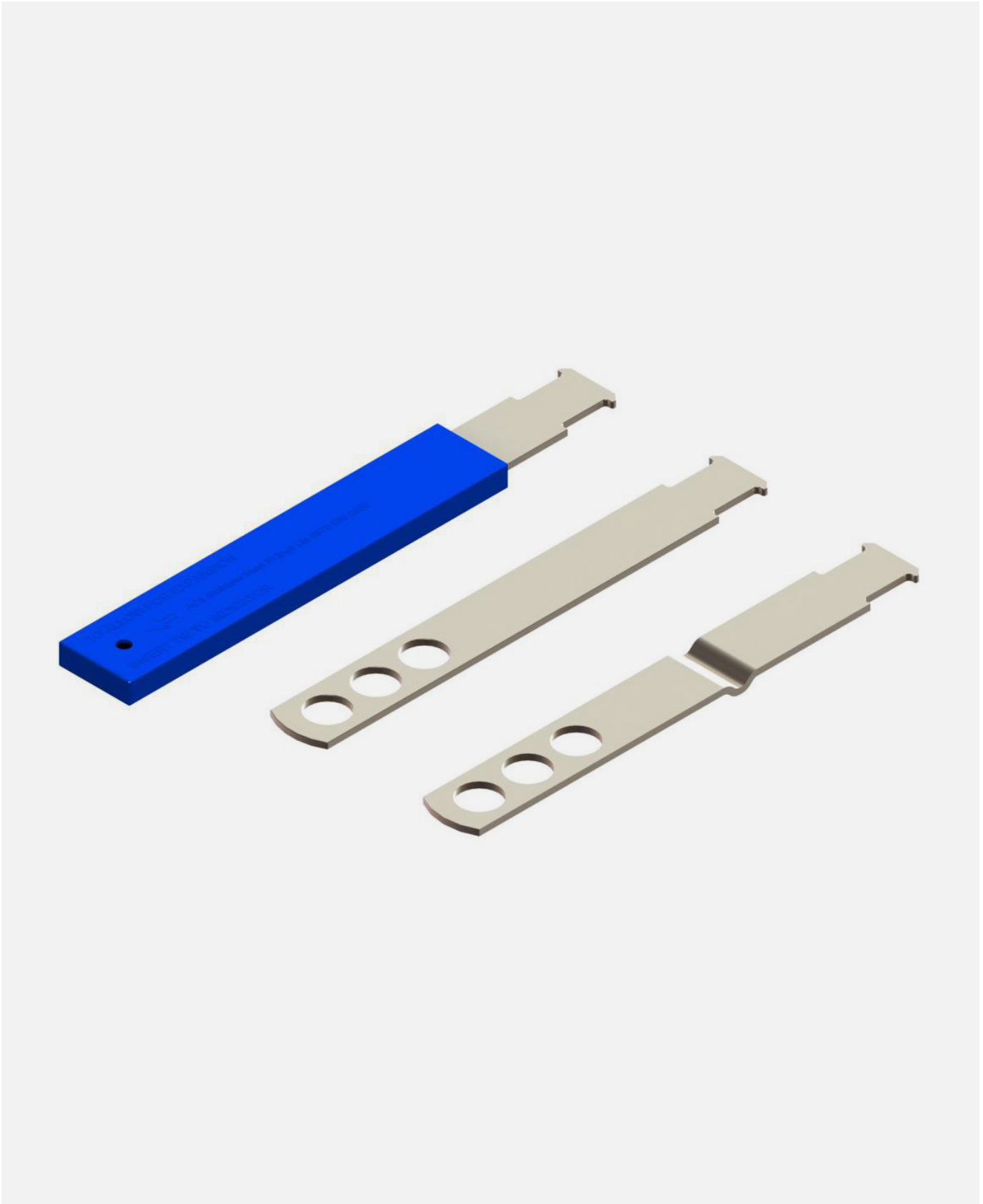
Technical Data Sheet

Apex Channel

To be used in conjunction with the ACS 4600 Range Ties



Apex Channel

Check for updates



Technical Data

UK CA | CE UK NI

BS EN 845-1

CCPI ASSESSED PRODUCT INFORMATION 003000080/0627 21/19 Apex Channel & 4600 Range Channel Tie

The ACS Apex Channel Tie System is designed to provide positive and negative axial restraint to applied windloads or shear restraint when used at columns for example. The system allows a masonry wall to be tied to a concrete substrate without the need for site drilling and post fixing. The Apex Channel can be supplied in 100mm or 3,000mm standard lengths complete with nail holes in the back of the channel to allow it to be easily fixed to the shuttering prior to concrete pouring. The channel is filled with a polystyrene infill which acts to prevent concrete ingress. 4600 Range Channel Ties can be supplied with a debondable plain end and debonding sleeve for use at a movement joint, or a safety end with or without a drip feature as required to suit the specific application.

Published 02/26 Version 1.3

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/channel/21-19-apexchannel

ACS Stainless Steel Fixings Ltd
ACSStainlessSteelFixings

Apex Channel

Check for updates

Test Results

The Apex Channel was cast into C30 concrete and tested in conjunction with the ACS 4600 Range Channel Tie at Lucideon to establish the Declared Load Capacity in tension, compression and shear.

The design resistance of ties conforming to BS EN 845-1 should be taken as the declared load capacity, relevant for the type of mortar and masonry units, divided by the value of γ_M for use with ancillary components given in NA to BS EN 1996-1-1:2005 +A1:2012, Table NA.1 which is a value of 3.0 for sites in the UK.

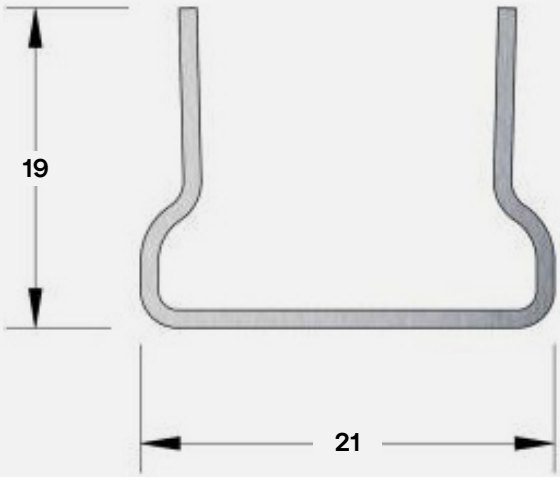
Mode of Test	Tie Feature	Maximum Declared Value (N)	Mortar Class
Shear	Channel Tie End	2340N	M2 (iv)
Tension		5460N	
Compression		2680N	
Shear	Embedment End	2500N	
Tension		4314N	
Compression		2680N	

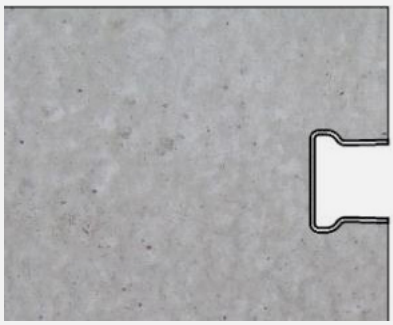
Product Highlights

- **Masonry – Channel Tie**
- **Tension – Compression / Shear**
- **Austenitic Stainless Steel** (Grade 304)
- **UKCA / CE+UKNI Marked** (BS EN 845 - 1)
- **Lucideon Tested**
- **Allows In Plane Movement**
- **Provides Lateral/Shear Restraint**
- **Debonded/Plain/Dripped**

Apex Channel

Check for updates





21/19 Apex Channel



4600 Range Tie

Installation

Apex channel is a high performance, self-anchoring, cast in channel designed to provide a horizontal or vertical slot in a concrete structure to accept 4600 Range Channel Ties. Apex channel is typically used to restrain brickwork, stonework or other masonry structures and can be used in applications where there is reduced cover to reinforcement. The channel is installed by nailing the channel onto the form work prior to concrete pouring. The channel is supplied with an infill to restrict concrete ingress. Ties are installed by twisting the tie into the channel aperture to engage the profiled end into the corresponding channel profile.

ACS

Built on tradition. Driven by innovation.

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

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

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