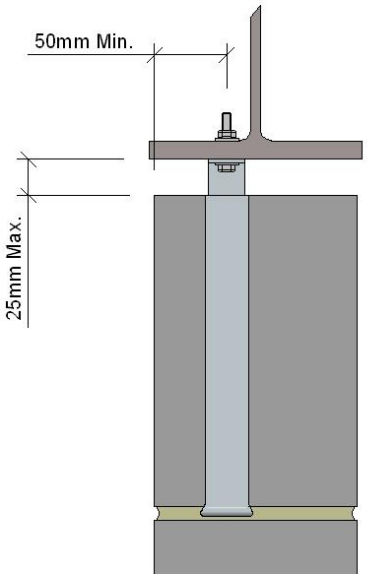
Technical Data Sheet

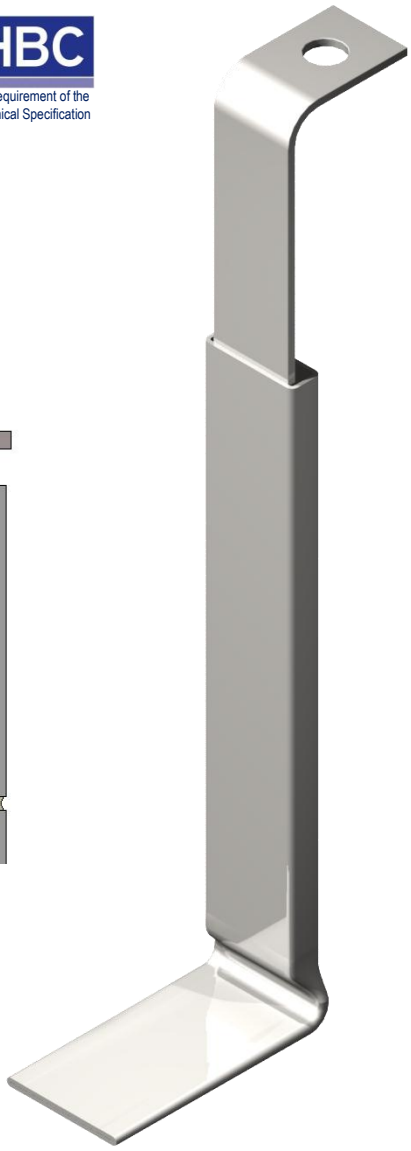
EN 845 - 1

Meets the Requirement of the NHBC Technical Specification

ACS AHR (Adjustable Head Restraint)

- ✓ **Shear/Movement Tie** *(PD 6697: 2010)*
- ✓ **Austenitic Stainless Steel** *(Grade 304)*
- ✓ **CE Marked** *(EN 845-1)*
- ✓ **CERAM Tested**
- ✓ **Allows Vertical Movement**
- ✓ **Provides Lateral Restraint**





Technical Data

The ACS Adjustable Hear Restraint (AHR) is designed to provide lateral restraint at the top of an internal block wall or the inner leaf of a cavity wall. The 'outer' section of the AHR is manufactured from a rectangular hollow tube to create and maintain a void in the vertical mortar joint. This allows free movement of the 'inner section'. A movement joint of 25mm (Max) between the soffit / bottom of steel and the top of the inner section will be sufficient to allow the normal movement expected in service as a result of live loading, thermal expansion and contraction and any shrinkage that may occur following construction.

Test Results

The design shear resistance of shear ties conforming to BS EN 845-1 should be taken as the declared shear 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, Table NA.1 which is a value of 3.5 for sites in the UK.

Mode of Test	Masonry Unit Strength (N)	Maximum Declared Value (N)	Mortar Class
Shear	7.00	1500	M2 (iv)
	2.90	840	

Installation

The horizontal leg of the outer section must be built into the bed joint with the centre line of the unit no closer than 50mm from the edge of the block. The vertical section should be built into the perpendicular joints ensuring that mortar fills the remaining voids on either side. The inner sliding section can be manufactured complete with a hole or slot to suit an M6 fixing, or alternatively can be supplied with a specially notched end to suit 28/15, 38/17 or 31/21 cast in channel. The standard system is designed to suit a block of 215mm in height and resist a load of 1.5kN in a 7N block per unit; however, alternative systems can be manufactured to suit specific requirements. The AHR's should be installed at 450, 675 or 900mm centres depending on the load requirements and edge reactions of the specific panel.

For further information or technical assistance please contact the ACS Technical Department on 0870 850 0860 or email technical@acsstainless.co.uk

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ACS
inner strength in construction