

ACS Stone Restraints

- ✓ **BS 8298: 2010 Compliant**
- ✓ **BS EN 845 Design**
- ✓ **BS EN 846 Tested**
- ✓ **Grade 304 or 316**
- ✓ **Designed to Suit Application**
- ✓ **1 or 3 hole ends**



Technical Data

ACS Stone Restraints are designed to provide lateral restraint against positive and negative windloads as well as any possible imposed loads that may be subjected to a stone façade in normal service. Stone restraints are typically designed complete with a one-way or two-way welded or loose dowel that should be embedded no less than 25mm into the stone.

The restraint fixing should be located at 1/5 points for stack bonded stones and 1/4 points for stretcher bonded stones. If this is not possible the fixing should be located at least 75mm from the edge of the stone. The maximum distance between restraint fixings should be 1200mm unless the stone and fixing method have been proved by structural calculation or physical test and there should be a maximum of four fixing points per stone which can be located in the horizontal or vertical joints.

ACS Design the Stone Restraints to suit the specific application taking into account the applied windload, cavity, required water resistance and the substrate into which the restraint tie is being fixed. Typical fixings are detailed in the table below.

Substrate or Structure	Recommended Fixing
Concrete	M6 Plug & Screw
	M6 Expansion Anchor
Steel	M5.5 BZP Self Drilling Tech Screw
Block	M6 Plug & Screw
Timber	M6 Stainless Coach Screw
	M6 Stainless Wood Screw

Stone Thickness (mm)	Min Dowel Diameter (mm)
30	≥3
40	≥5
50+	≥6

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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