

## Timber Frame Tie

This product is specifically designed to secure an inner timber frame to an outer brick skin. The main property of these ties is that they can absorb substantial vertical movement between the brick and timber while still performing their structural function.



## Product

### HELI-4.5-ONE Timber Frame Wall Tie

A 4.5mm Newbuild wall tie for securing external masonry to timber frames. The first helical wall tie was tested to EN846 for timber frame construction.

Used for domestic and small commercial builds up to four storeys high. Suitable for buildings with a maximum height of 15m and for flat sites where the basic wind speed is up to 25m/s and altitude is not greater than 150m above sea level,

## Test Results

HELI-4.5-ONE Timber Frame Tie	170mm (50mm cavity)	220mm (100mm cavity)	270mm (150mm cavity)
Tensile Load (As Received) Timber End	<b>1200N</b>	<b>1200N</b>	<b>1200N</b>
Compression Load (As Received) Timber End	<b>1200N</b>	<b>980N</b>	<b>640N</b>
Tensile Load (24mm Movement) Timber End	<b>1030N</b>	<b>950N</b>	<b>1050N</b>
Compressive Load (24mm Movement) Timber End	<b>1100N</b>	<b>840N</b>	<b>560N</b>
Tensile Load Mortar End	<b>1060N</b>	<b>1060N</b>	<b>1060N</b>
Compressive Load Mortar End	<b>2030N</b>	<b>1430N</b>	<b>720N</b>

### Safety Precautions

HELI-4.5-ONE Timber Frame Ties are manufactured from sheared plate and strip so may contain sharp edges. Suitable personal protection should always be used when handling/installing these products.