

# INSTALLATION GUIDE TEPLO-L-TIE



The Teplo-L-Tie is ideal where a low thermal conductivity restraint fixing is required between a masonry outer leaf and an in-situ structure. It is suitable for fixing to steel, timber, concrete and masonry.

An o-ring drip prevents water crossing the cavity and the Teplo-L-Tie can be used with the black Teplo-Clip where insulation is to be retained.

## INSTALLATION GUIDANCE

Restraint fixings 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.

'O rings' should be moved along the shank to 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 of masonry.

The outer leaf brickwork should be kept one course clear during installation of these ties.

## RECOMMENDED FIXINGS

The 7mm diameter hole in the upstand suits a variety of fixings, typically an M6 single expansion bolt for concrete, a plug and screw for either masonry or concrete, either an M6 set screw or SDTSS-38-5PT self-drilling screw for steelwork and a 5mm x 30mm countersunk wood screw for timber.

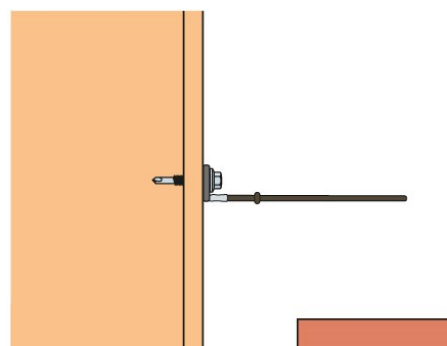
The Teplo-L-Tie is suitable for buildings requiring 120-minute fire resistance. Where this fire performance is required, appropriate fixings should be selected which match or exceed this 120-minute fire resistance performance.

Substrate	Recommended Ancon Fixings
Steel	M6 set screw SDTSS-38-5PT self-drilling screw
Timber	5mm x 30mm countersunk wood screw
Concrete	FBNII 6/10 single expansion bolt SX plug with M6 x 50mm hex head coach screw
Masonry	SX plug with M6 x 50mm hex head coach screw

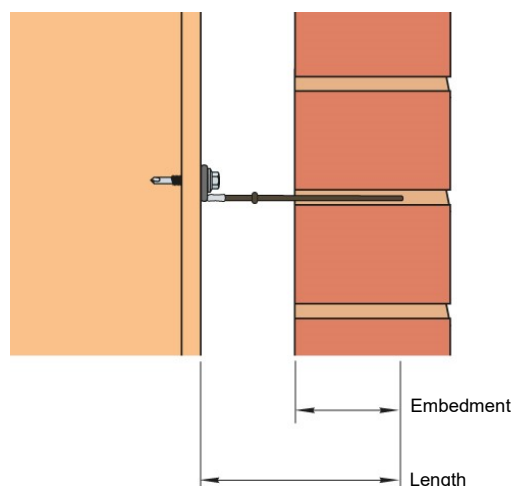
Note: The load performance will depend on the substrate and on-site pull tests are recommended to confirm the strength of uncertain or old substrates.

## INSULATION RETAINING CLIPS

The black Ancon Teplo-Clip Insulation Retaining Clip is suitable for use in partial fill cavities with all products in the TeploTie range.



Keep brickwork at least one course clear during installation



Teplo-L-Tie Fixed to Steel with Self-Drilling Screw



## RECOMMENDED FIXING CENTRES

Teplo-L-Ties are suitable for cavities from 100mm to 300mm. The range comprises 14 standard products which meet the performance of Tie Types 2, 3 or 4 when installed at a standard spacing of 2.5 ties per square metre; decreasing wall tie centres can increase the performance level (see table B).

Teplo-L-Tie is also a Type 6 tie, suitable for use in Timber Frame construction, installed at a standard spacing of 4.4 ties per square metre (see table A).

Teplo-L-Ties should achieve an embedment depth of 65mm in the outer leaf.

**Table A - Teplo-L-Tie Type 6 Timber Frame**

Product Code	Length of Tie (mm)	Cavity Width (mm)	BS5268 Type
TEPLO-L-5-165	165	100	6
TEPLO-L-5-190	190	125	6
TEPLO-L-5-215	215	150	6
TEPLO-L-5-240	240	175	6
TEPLO-L-5-265	265	200	6
TEPLO-L-7-290	290	225	6
TEPLO-L-7-315	315	250	6
TEPLO-L-7-340	340	275	6
TEPLO-L-7-365	365	300	6

Ties to be installed at a density of 4.4 per square metre in Timber Frame applications

**Table B - Teplo-L-Tie Product Codes and Recommended Fixing Centres**

Product Code	PD6697 Tie Type	Cavity mm	Tie Length mm	Type 1*	Type 2			Type 4
					Recommended Spacing (mm)			
TEPLO-L-7-165	2	100	165	500 X 450	900 X 450	-	-	
TEPLO-L-7-190	2	125	190	500 X 450	900 X 450	-	-	
TEPLO-L-7-215	2	150	215	500 X 450	900 X 450	-	-	
TEPLO-L-7-240	2	175	240	500 X 450	900 X 450	-	-	
TEPLO-L-7-265	2	200	265	500 X 450	900 X 450	-	-	
TEPLO-L-7-290	2	225	290	500 X 450	900 X 450	-	-	
TEPLO-L-7-315	2	250	315	500 X 450	900 X 450	-	-	
TEPLO-L-7-340	2	275	340	500 X 450	900 X 450	-	-	
TEPLO-L-7-365	2	300	365	500 X 450	900 X 450	-	-	
TEPLO-L-5-165	3	100	165	380 X 450	710 X 450	900 X 450	-	
TEPLO-L-5-190	3	125	190	380 X 450	710 X 450	900 X 450	-	
TEPLO-L-5-215	3	150	215	380 X 450	710 X 450	900 X 450	-	
TEPLO-L-5-240	4	175	240	230 X 450	450 X 450	740 X 450	900 X 450	
TEPLO-L-5-265	4	200	265	230 X 450	450 X 450	740 X 450	900 X 450	

**Note:** Centres shown achieve equivalent tie type performances to PD6697 Table 12.

\*Type 1 based on M2 mortar and a strength requirement of 2500N (PD6697) in Tension and Compression.

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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. Ancon Ltd 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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