

## Installation Guide

# Ancon Teplo-BFL-Tie

The Ancon Teplo-BFL-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.

The unique ribbed shank acts as a drip to prevent water crossing the cavity and the Ancon Teplo-BFL-Tie can be used with the black Ancon 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.

Installed ties should be clear of mortar droppings to allow the drip function to perform correctly and prevent water from crossing to the inner leaf of the masonry.

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

### Recommended Fixings

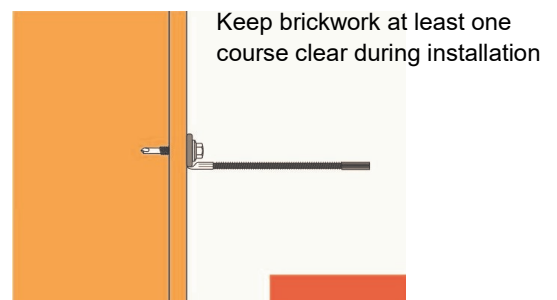
The 7mm diameter hole in the upstand suits a variety of fixings, typically an M6 expansion bolt for concrete, a plug and screw for either masonry or concrete, either an M6 set screw or SDTSS-38-5PT self-drilling screw for steelwork and a 5mm x 30mm countersunk wood screw for timber.

The Teplo-BFL-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.

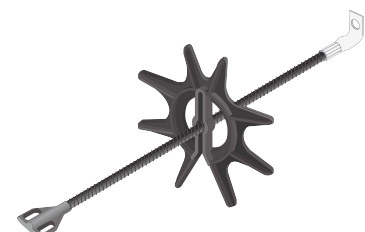
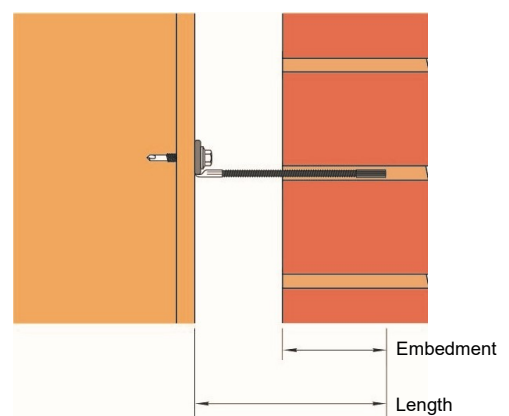
Substrate	Recommended Ancon Fixings
Steel	M6 x 40mm set screw
	SDTSS-38-5PT self-drilling screw
Timber	5mm x 30mm countersunk wood screw
Concrete	FAZ II Plus 6/10 expansion bolt
	DuoPower plug with M6x50 hex head coach screw
Masonry	DuoPower plug with M6x50 hex head coach screw

### Insulation Retaining Clips

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



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



## Recommended Fixing Centres

Ancon Teplo-BFL-Ties are suitable for cavities from 76mm to 400mm. The range comprises 18 standard products which meet the performance of Tie Types 2 or 3 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).

The Ancon Teplo-BFL-Tie also meets the requirements of 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).

**Table A - Ancon Teplo-BFL-Tie Type 6 Timber Frame**

Product Code	Length of Tie (mm)	Cavity Width (mm)	BS5268 Type
Teplo-BFL-5-155	155	76-100	6
Teplo-BFL-5-180	180	101-125	6
Teplo-BFL-5-205	205	126-150	6
Teplo-BFL-5-230	230	151-175	6
Teplo-BFL-5-255	255	176-200	6
Teplo-BFL-7-280	280	201-225	6
Teplo-BFL-7-305	305	226-250	6
Teplo-BFL-7-330	330	251-275	6
Teplo-BFL-7-355	355	276-300	6
Teplo-BFL-7-380	380	301-325	6
Teplo-BFL-7-405	405	326-350	6
Teplo-BFL-7-430	430	351-375	6
Teplo-BFL-7-455	455	376-400	6

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

Product Code	PD6697 Tie Type	Cavity	Tie Length	Type 1*	Type 2	Type 3
TEPLO-BFL-7-155	2	76-100	155	600 X 450	900 X 450	-
TEPLO-BFL-7-180	2	101-125	180	600 X 450	900 X 450	-
TEPLO-BFL-7-205	2	126-150	205	600 X 450	900 X 450	-
TEPLO-BFL-7-230	2	151-175	230	600 X 450	900 X 450	-
TEPLO-BFL-7-255	2	176-200	255	600 X 450	900 X 450	-
TEPLO-BFL-7-280	2	201-225	280	600 X 450	900 X 450	-
TEPLO-BFL-7-305	2	226-250	305	600 X 450	900 X 450	-
TEPLO-BFL-7-330	2	251-275	330	600 X 450	900 X 450	-
TEPLO-BFL-7-355	2	276-300	355	600 X 450	900 X 450	-
TEPLO-BFL-7-380	3	301-325	380	375 X 450	725 X 450	900 X 450
TEPLO-BFL-7-405	3	326-350	405	375 X 450	725 X 450	900 X 450
TEPLO-BFL-7-430	3	351-375	430	375 X 450	725 X 450	900 X 450
TEPLO-BFL-7-455	3	376-400	455	375 X 450	725 X 450	900 X 450
TEPLO-BFL-5-155	3	76-100	155	475 X 450	775 X 450	900 X 450
TEPLO-BFL-5-180	3	101-125	180	475 X 450	775 X 450	900 X 450
TEPLO-BFL-5-205	3	126-150	205	325 X 450	650 X 450	900 X 450
TEPLO-BFL-5-230	3	151-175	230	325 X 450	650 X 450	900 X 450
TEPLO-BFL-5-255	3	176-200	255	325 X 450	650 X 450	900 X 450

**Note:** Centres shown achieve equivalent tie type performances to PD6697:2019 Table 12.

\*Type 1 based on M2 mortar and 2500N Tensile/ 2000N Compressive capacity (PD 6697:2019).

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. The company 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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