

WINCRO FRAME CRAMPS

CRAMP FIXING APPLICATIONS FOR FIXING TO CONCRETE AND STEELWORK

Wincro's standard frame cramp has two outer 6mm diameter holes and one central 7mm diameter hole. Different methods are recommended for use in fixing to steelwork and fixing to concrete.

When frame cramps are fixed to steelwork, the following is recommended:

Use a WBSD zinc-plated carbon steel self-drilling/self-tapping screw complete with a neoprene isolation washer and a neoprene isolating patch between the frame cramp and the steel section. This eliminates the possibility of bi-metallic corrosion.

When frame cramps are fixed to concrete the following is recommended:

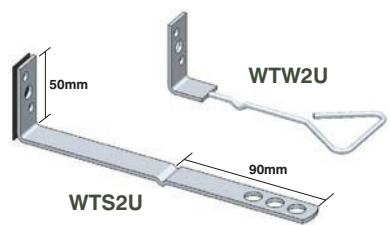
Use a WBPS Plug and screw using either the 7mm diameter central hole or the two 6mm diameter holes or use WBEB M6 expansion bolt through the 7mm diameter central hole.

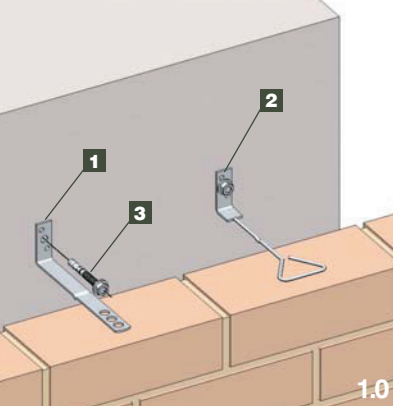
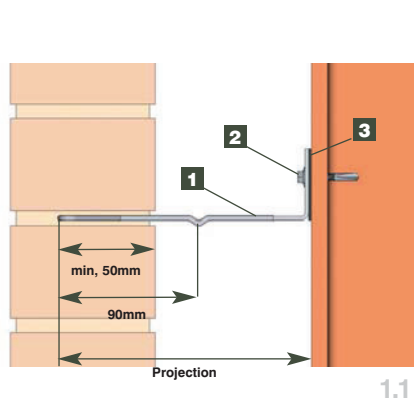
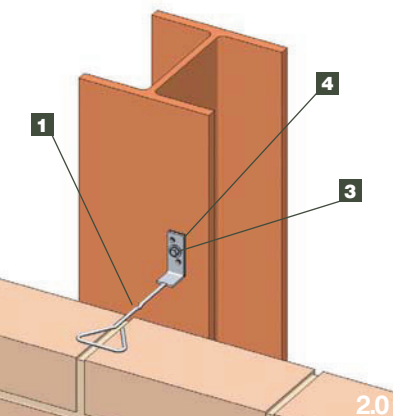
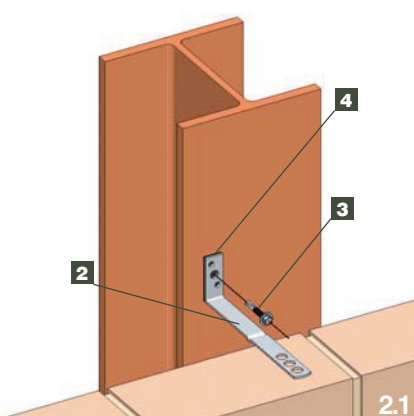
Wincro recommend large plate washers should be used as this increases the tensile load capacity of frame cramps.

Please contact our Technical Design team for further guidance.

1.0 WINCRO RECOMMENDED LENGTHS FOR FRAME CRAMPS		
Product reference	Cramp projection (mm)	Cavity width (mm)
WTS2U/100	100	25-50
WTS2U/125	125	50-75
WTS2U/150	150	76-100
WTS2U/175	175	101-125
WTS2U/200	200	126-150
WTS2U/225	225	151-175

For other frame cramp products, please see pages 6-8



<p>1.0 / 1.1</p> <p>1.0 Fixed to concrete using a WBEB Expansion Bolt</p> <ul style="list-style-type: none"> 1 WTS2U 2 WTW2U Flexible End Frame Cramp 3 WBEB Expansion Bolt <p>1.1 Fixed to steelwork with WBSD Self-Drilling, Self-Tapping Screw</p> <ul style="list-style-type: none"> 1 WTS2U 2 WBSD Self-Drilling, Self-Tapping Screw 3 WIP Isolation Patch 	 <p style="text-align: right;">1.0</p>	 <p style="text-align: right;">1.1</p>
<p>2.0 / 2.1</p> <p>Fixed to steelwork using a WBSD Self-Drilling Self-Tapping Screw</p> <ul style="list-style-type: none"> 1 WTW2U Flexible End Frame Cramp 2 WTS2U 3 WBSD Self-Drilling, Self-Tapping Screw 4 WIP Isolation Patch 	 <p style="text-align: right;">2.0</p>	 <p style="text-align: right;">2.1</p>

UNIVERSAL COLUMN TIE

Wincro's universal column tie is a simple and time-saving answer to tying masonry to steelwork. It is better than the traditional bolted or shot-fired ties and cramps.

Benefits include:

- 4 different fitting options
- Ease of installation with no fitting tools or equipment required
- Allows for variation in coursing
- Easy to handle
- Excellent pull-out strength
- Exceeds the requirements of DD140 for a Type 2 tie
- Manufactured from high quality grade 1.4301 (304) stainless steel

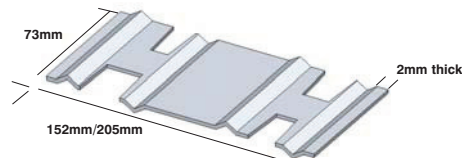
Variation in notch sizes means the Wincro universal column tie can be slotted easily around the flange of a column and so provide an effective restraint between the inner and outer leaves of masonry cavity walls.

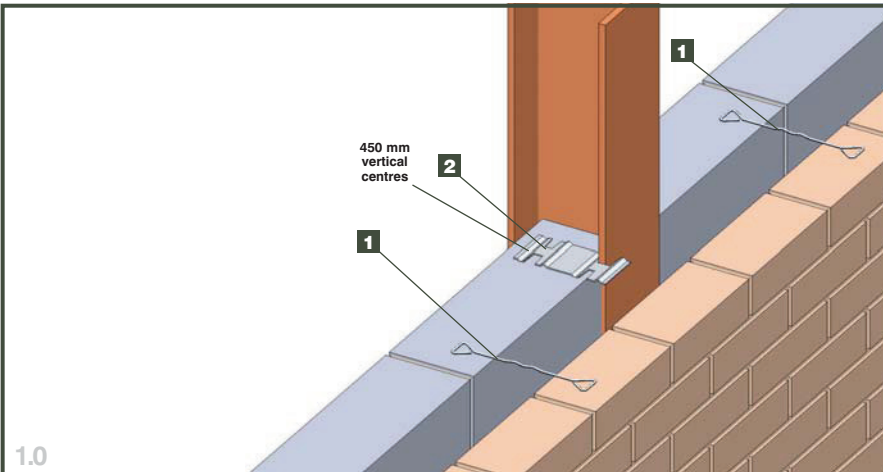
Note: Where the tie is used with untreated mild steel structural steelwork, it is advisable to paint the flange with a bitumen coat where the two materials come into contact.

2.0 **WINCRO WTUC DIMENSIONS**

Length (mm)	Width (mm)	Boxed in
152	73	50
205	73	50

Special lengths can be manufactured on request

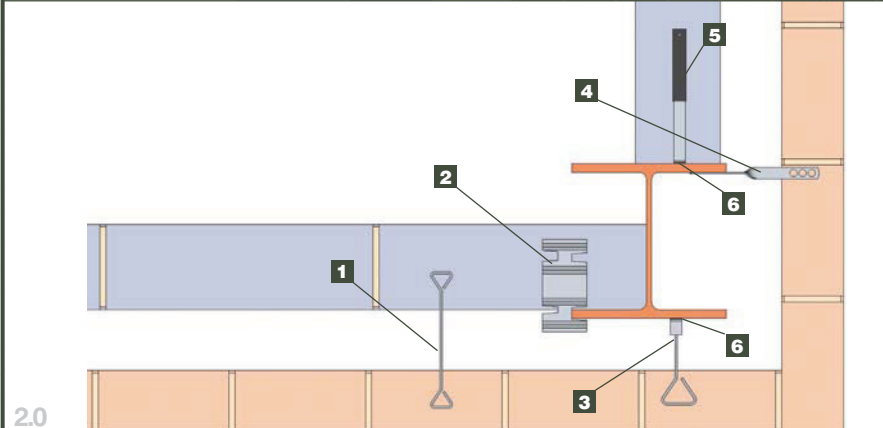




1.0

1.0
WT2 / WTUC

- 1** WT2 Type 2 Wall Tie
- 2** WTUC Wincro UC Column Tie



2.0

2.0
WTUC Column Tie

- 1** WT2 Type 2 Wall Tie
- 2** WTUC Wincro UC Column Tie
- 3** WTW2U fixed at 450mm vertical centres
- 4** WTS4H Tie
- 5** WTP3U (with WDS De-bonding Sleeve)
- 6** WIP Isolation Patch