

MOUNTING INSTRUCTIONS

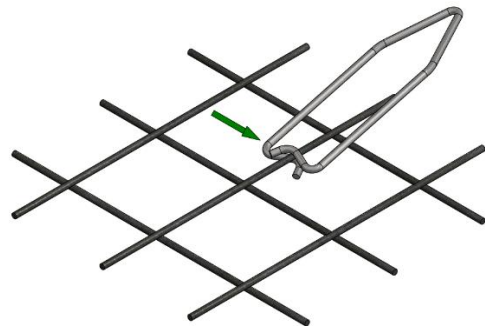
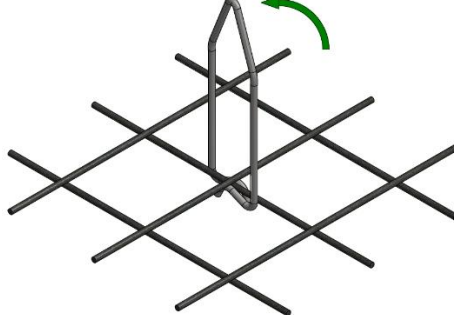
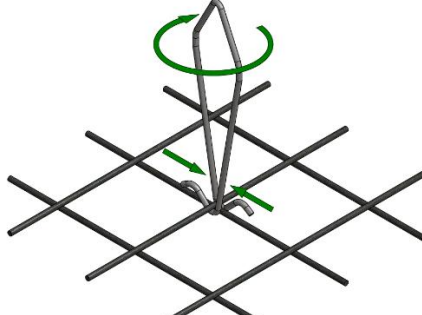

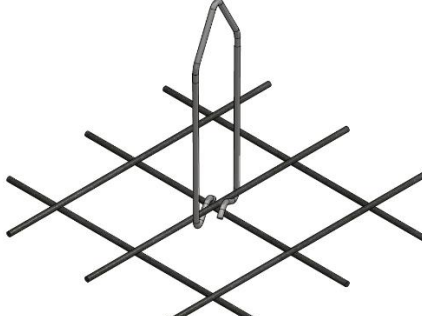


SANDWICH PANEL ANCHOR SYSTEM | TVB PANEL TIE - STICK IN HAIRPIN



PLACING THE STICK IN HAIRPIN "TVB"

Table 45

<p>1. The TVB anchor is attached to the upper reinforcement bar. The upper reinforcement bar is wedged between the two arms of the anchor.</p>	
<p>2. The anchor is lifted upright.</p>	
<p>3. Press simultaneously on both arms of the hairpin and fix it to the lower reinforcement bar by rotating it clockwise.</p>	
<p>4. Intermediary position after rotation.</p>	
<p>5. Final position of the TVB hairpin.</p>	

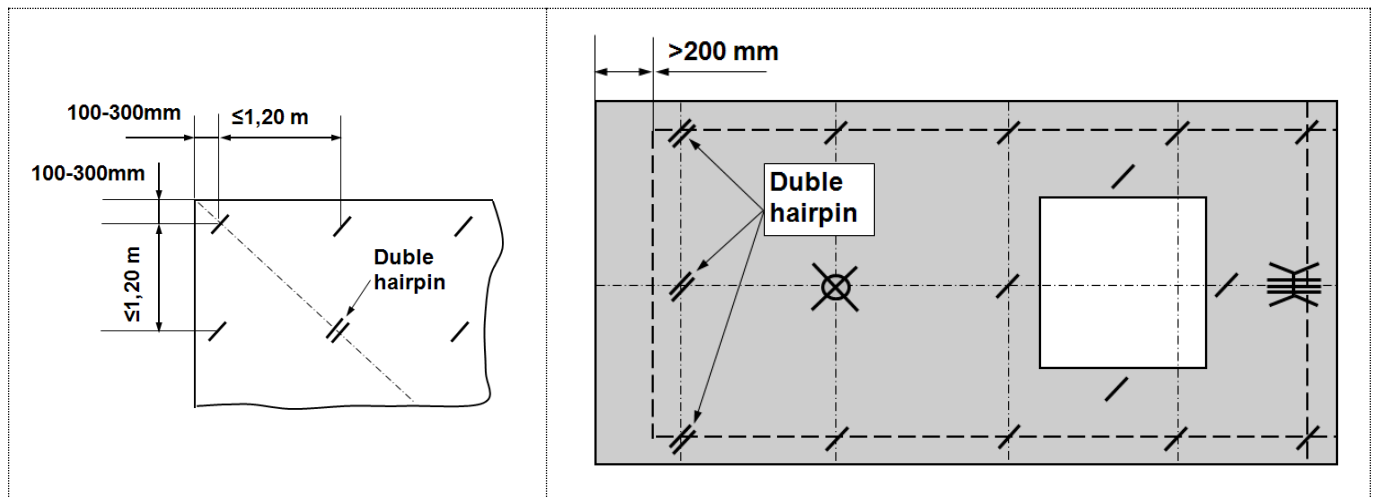
The supporting anchors TVA and TVB dimensions depend on the outer layer thickness and the insulation thickness. The maximum values for "S_h" are the same as those indicated for the straight TVH hairpin.

Table 46

d mm		The insulation layer thickness e mm												
		30	40	50	60	70	80	90	100	110	120	130	140	150
60	TVA	3 -140	3 -140		3 -160		4 -200				4 -250			
	TVB	3 -150				4 -175		4 -200			4 -250			
70	TVA	4 -160				4 -200				4 -250				5 -280
	TVB	4 -160			4 -175		4 -200		4 -250				5 -280	
80	TVA	4 -160			4 -200				5 -250			5 -280		
	TVB	4 -160		4 -175		4 -200			The supporting hairpin TVA has to be applied.					
90	TVA	4 -160		4 -200				4 -250		5 -250		5 -280		
	TVB	4 -160		4 -175		4 -200			The supporting hairpin TVA has to be applied.					
100	TVA	4 -160		4 -200		5 -200		5 -250			5 -280			
	TVB	4 -160	4 175		4 -200		The supporting hairpin TVA has to be applied.							
120	TVA	5 -200				5 -250				5 -280		5 -320		
	TVB	The supporting hairpin TVA has to be applied.												

POSITIONING OF THE PANEL TIES

The panel ties are type tested. A special dimensioning of these restraint hairpins is not necessary when they are used in combination with a bearing anchor, manchet or plate anchor if the following situations are observed:



The maximum distance between hairpins must not exceed 1.2 m. For large adhesion forces to the formwork, such as textured finishes, the maximum distance between hairpins must not exceed 0.9 m. The positioning grid for the hairpins must not exceed or fall below the ratio 3:4 or respectively 4:3.

The second hairpin at the diagonal must be double. If a manchet anchor or a plate anchor is placed in that position, the use of a double hairpin can be avoided.

Normally the outer layer projects more than 200 mm. In that case, double hairpins with $d = 4.0$ mm are to be used for the first vertical row.

CONTACT



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TERWA CONSTRUCTION GROUP

Terwa Construction Netherlands (HQ)

Global Sales & Distribution
Kamerlingh Onneslaan 1-3
3401 MZ IJsselstein
The Netherlands
T +31-(0)30 699 13 29
F +31-(0)30 220 10 77
E info@terwa.com

Terwa Construction Central East Europe

Sales & Distribution
Strada Sânzieni
507075 Ghimbav
Romania
T +40 372 611 576
E info@terwa.com

Terwa Construction Poland

Sales & Distribution
Ul. Cicha 5 lok. 4
00-353 Warszawa
Poland
E info@terwa.com

Terwa Construction India & Middle East

Sales & Distribution
India
T +91 89 687 000 41
E info@terwa.com

Terwa Construction China

Sales & distribution
5F 504, No. 101 Chuanchang road
PRC, 200032, Shanghai
China
E info@terwa.com

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