

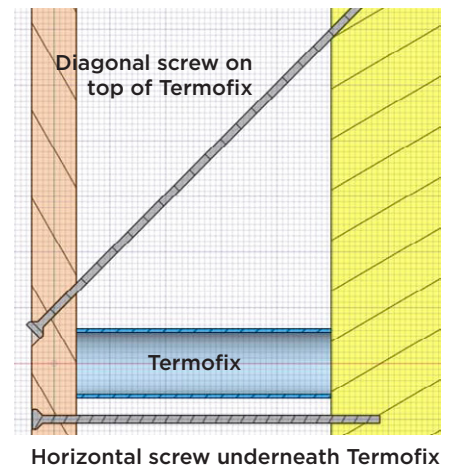


TERMOFIX SPACER'S - SCREWING TABLE FOR BATTENS

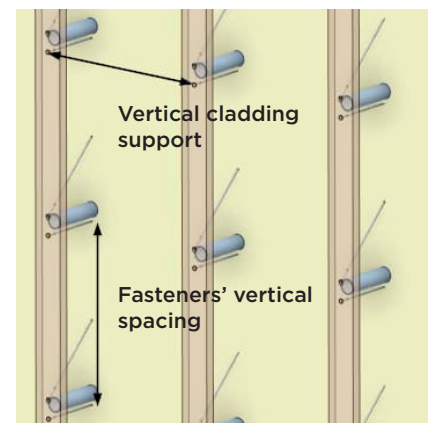
**TERMOFIX SPACER'S COMPRESSIVE
STRENGTH $N_{RD} = 3.1 \text{ KN (120-180) MM}$ &
 $4,78 \text{ KN (50-100) MM}$
(MAXIMUM USE TEMPERATURE 50°C).**

THE TABLES ARE VALID WITH THE FOLLOWING ASSUMPTIONS

- Vertical 32x100 wooden cladding support battens are used with at least three spans (wood density used in calculation is 350 kg/m³). Load factor 1.15 caused by the continuity of the cladding support battens has been taken into account.
- The mass of the facade is 25 kg/m². Diagonal screws + Termofix with a minimum of 1200 ctc vertically.
- The wood's service class is 2, which includes dry wooden outdoor structures.
- The diagonal screws must be at a minimum angle of 30° from the horizontal position.
- The minimum distance of a screw with D = 6 to the edge of the battens and support structure is 4xD, i.e. 24 mm.
- The value used for the minimum penetration of the screw into the support structure is 30 mm. At smaller penetrations, the pullout resistance of the screw may become dominant.
- The facade panel, cladding support battens or support structures have not been examined. Their deflection at the serviceability limit state and resistance at the ultimate limit state must be checked separately!



Horizontal screw underneath Termofix



Screw Rothoblaas HBS (normal), D = 6, minimum penetration into wood 30 mm

- Design resistance, horizontal screw, instantaneous wind load ($k_{mod} = 1.1$), $F_{t,Rd} = 1.279$ kN
- Design resistance, diagonal screw, constant load ($k_{mod} = 0.60$), $F_{t,Rd} = 0.70$ kN

Maximum peak velocity pressure q_p

$C_{pe,1}$ factor of 1.4 for zone A and safety factor of 1.5 for wind load have been taken into account.

	q_p [kPa]	Vertical cladding support batten spacing (horizontal)		
		300 ctc	400 ctc	600 ctc
Fasteners' vertical	300 ctc	5,89	4,42	2,94
	600 ctc	2,94	2,21	1,47
	900 ctc	1,96	1,47	0,98
	1200 ctc	1,47	1,10	0,74

Maximum wind suction pressure w_e

Safety factors or wind load zone factors have not been taken into account.

	w_e [kPa]	Vertical cladding support batten spacing (horizontal)		
		300 ctc	400 ctc	600 ctc
Fasteners' vertical	300 ctc	12,36	9,27	6,18
	600 ctc	6,18	4,64	3,09
	900 ctc	4,12	3,09	2,06
	1200 ctc	3,09	2,32	1,55

Screw SPAX, partially threaded, D = 6, minimum penetration into wood 30 mm

- Design resistance, horizontal screw, instantaneous wind load ($k_{mod} = 1.1$), $F_{t,Rd} = 1.753$ kN
- Design resistance, diagonal screw, constant load ($k_{mod} = 0.60$), $F_{t,Rd} = 0.96$ kN

Maximum peak velocity pressure q_p

$C_{pe,1}$ factor of 1.4 for zone A and safety factor of 1.5 for wind load have been taken into account.

	q_p [kPa]	Vertical cladding support batten spacing (horizontal)		
		300 ctc	400 ctc	600 ctc
Fasteners' vertical	300 ctc	8,06	6,05	4,03
	600 ctc	4,03	3,02	2,02
	900 ctc	2,69	2,02	1,34
	1200 ctc	2,02	1,51	1,01

Maximum wind suction pressure w_e

Safety factors or wind load zone factors have not been taken into account.

	w_e [kPa]	Vertical cladding support batten spacing (horizontal)		
		300 ctc	400 ctc	600 ctc
Fasteners' vertical	300 ctc	16,93	12,70	8,47
	600 ctc	8,47	6,35	4,23
	900 ctc	5,64	4,23	2,82
	1200 ctc	4,23	3,18	2,12

Screw SPAX, fully threaded, D = 6, minimum penetration into wood 30 mm

- Design resistance, horizontal screw, instantaneous wind load ($k_{mod} = 1.1$), $F_{t,Rd} = 2.132$ kN
- Design resistance, diagonal screw, constant load ($k_{mod} = 0.60$), $F_{t,Rd} = 1.108$ kN

Maximum peak velocity pressure q_p

$C_{pe,1}$ factor of 1.4 for zone A and safety factor of 1.5 for wind load have been taken into account.

	q_p [kPa]	Vertical cladding support batten spacing (horizontal)		
		300 ctc	400 ctc	600 ctc
Fasteners' vertical	300 ctc	9,81	7,36	4,90
	600 ctc	4,90	3,68	2,45
	900 ctc	3,27	2,45	1,63
	1200 ctc	2,45	1,84	1,23

Maximum wind suction pressure w_e

Safety factors or wind load zone factors have not been taken into account.

	w_e [kPa]	Vertical cladding support batten spacing (horizontal)		
		300 ctc	400 ctc	600 ctc
Fasteners' vertical	300 ctc	20,60	15,45	10,30
	600 ctc	10,30	7,72	5,15
	900 ctc	6,87	5,15	3,43
	1200 ctc	5,15	3,86	2,57