Technical data sheet

TFPC
Timber Frame Panel Closer

The TFPC timber frame panel closer is used to draw timber panels together.
It helps minimise air leakage at the joint between timber frame panels and avoids the damage to the exterior substrate when using screws alone. It can be used for inline panel to panel connections, timber frame corner connections and timber frame panel to sole plate connections. The unique patented screw guide ensures that the fastening is
driven quickly and accuratley.

NEW

SC 2

INDOOR

Z275

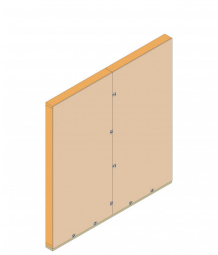
Features

Material

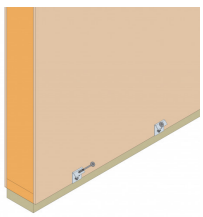
- S250GD + Z275 according to EN10346:2009
- Material Thickness: 2.5mm

Benefits

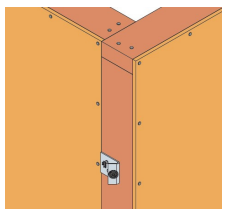
- Screw guide ensures fast, accurate installation.
- Simple method of joining panels and reducing air leakage without damaging the OSB Sheathing.
- Screw thread design pulls the panels firmly together.
- For inline panel-to-panel connections, timber frame corner connections & panel-to-sole plate connections.
- All fasteners supplied.



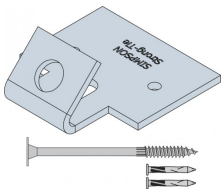
Panel to Panel Installation



Panel to Sole Plate Installation



Panel to Panel Corner Installation



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TFPC
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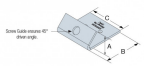
SIMPSON Strong-Tie

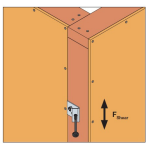
Technical Data

Product Dimensions

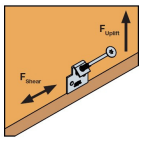


References	Dimensions and drill holes [mm]				Holes		
	A	B	C	Thickness	Flange A	Flange B	
					Ø10	Ø5	Ø8x14 Obround
TFPC	21	54	50	2.5	1	2	1

Product Capacities



Corner Panel Installation: Install the SDW Screw



Panel to Sole Plate: Force Directions

References	Fastener Qty		Characteristic Capacities [kN]		
	Flange A	Flange B	$R_{1,k}$ - Shear	$R_{2,k}$ - Uplift	$R_{3,k}$ - Lateral
	SDW22458	N3.75x30			
TFPC	1	2	3	1.9	1.3

1. SDW22458 refers to 8.0 x 117mm SDW structural screw (included).
2. N3.75x30 refers to 3.75 x 30mm square twist nail (included).

Installation

Installation - Panel to Panel Connection

Securely fix the first panel in place (propping if necessary). Position the second panel in line with the first and apply mastic to the vertical stud (if required). Connect the panels using the TFPC as follows:

1. Unless otherwise stated by the engineer, use 4 x TFPC per 2.4m vertical panel joint, starting 300mm from the base,then at 600mm centres.
2. Position the TFPC (panel closer) so that the edge of the TFPC is in line with the edge of the OSB.
3. Fix the TFPC to the timber frame panel using two 3.75x30mm square twist nails (included).
4. Insert the SDW22458 structural screw into the panel closer, maintaing an angle of 45° to pull the panels together.
5. It is recommended to fit the bottom TFPC first, then the top one, followed by the two in the middle.
6. Fold the breather membrane over the TFPC and fix in place.

Installation - Corner Panel Installation

Securely fix the first panel in place (propping if necessary). Position panels together to create the corner and apply mastic to the vertical stud (if required). Connect the panels using the TFPC as follows:

1. Unless otherwise specified by the engineer, use 4 x TFPC per 2.4m vertical panel joint, starting with 300mm from the base, then 600mm centres.
2. Position the TFPC so that the edge of the TFPC is in line with the edge of the stud.
3. Fix the TFPC to the timber frame panel using the 2no 3.75x30mm square twist nails (included).
4. Insert the SDW22458 structural screw into the panel closer, maintaining an angle of 45° to pull the panels together.
5. It is recomended to fit the bottom TFPC first, then the top one, followed by the two in the middle.
6. Fold the breather membrane over the TFPC and fix in place.

Installation - Panel to Sole Plate Connection

1. Unless otherwise specified by the engineer, use 1 x TFPC at 600mm centres horizontally or as specificed by the structural engineer.
2. Position the TFPC (panel closer) so that the bottom edge of the TFPC is in line with the bottom edge of the OSB.
3. Fix the TFPC to the timber panel using two 3.75x30mm square twist nails.
4. Insert the SDW22458 structural screw into the panel closer, maintaining an angle of 45°, to fix the timber panel to the sole plate.

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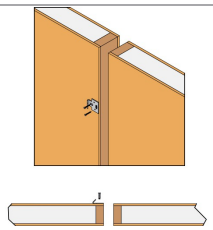
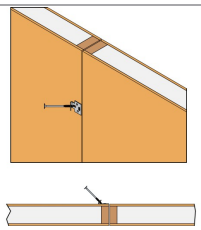
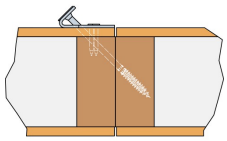


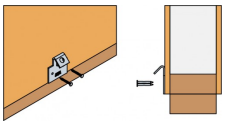
Panel installation: Install the Square Twist Nails



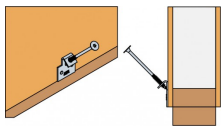
Panel to Panel Installation: Install the SDW Screw.



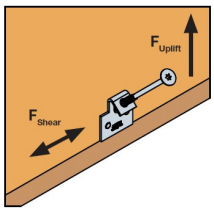
Panel to Panel Installation: Installed Cross Section



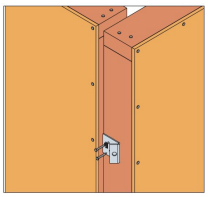
Sole Plate Installation: Install the Square Twist Nails



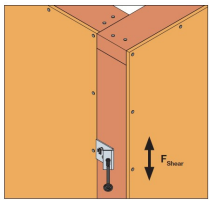
Sole Plate Installation: Install the SDW Screw



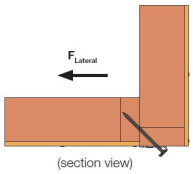
Panel to Sole Plate: Force Directions



Corner Panel Installation: Install the Square Twist Nails



Corner Panel Installation: Install the SDW Screw



Corner Installation: Installed Cross Section

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