

Solid-Drive™
SWD DOUBLE THREADED Screw
For Structural Wood-to-Wood Applications



Double threaded wood screw with clamping effect



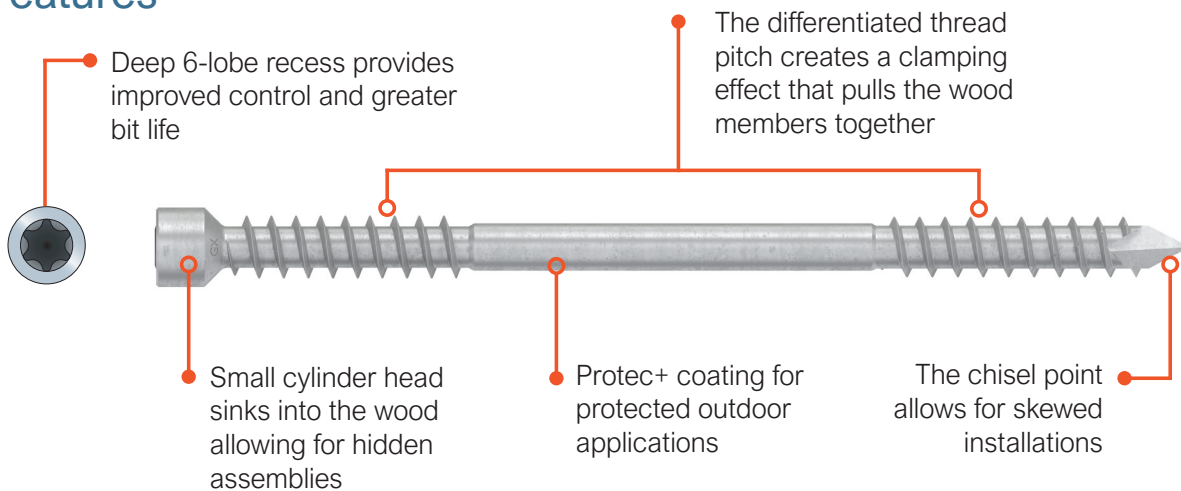
Double threaded wood screw

SWD is a double threaded structural screw designed to connect and pull together two wood members. The small cap-style head and double thread creates a hidden assembly with high strength.

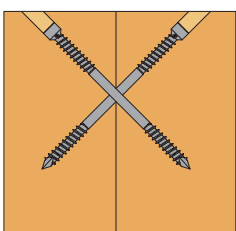
- The design of the screw, with an improved ratio between the thread and smooth shank, means that the load bearing capacity is maintained, despite of the reduced diameter
- The small cylinder head reduces the insertion torque and makes it possible to countersink the screws
- The deep 6-lobe recess T-30 or T-40 depending on thread diameter, reduces risk of spin-offs and protects the coating
- The chisel point reduces the risk of wood splitting and allows for skewed installations. No pre-drilling is required
- The Protec+ coating is a wear resistant coating that can endure the friction of the installation and the exposure of high loads from the structural applications
- CE-marked according to EN14592



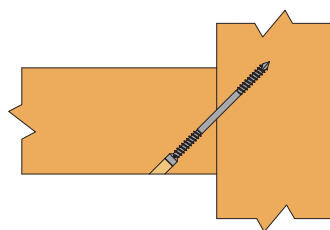
Features



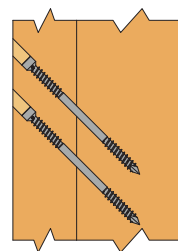
Benefits of using the SWD screws:



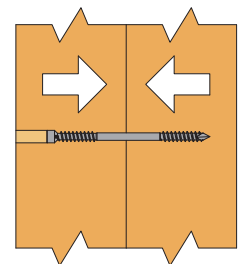
Countersinks easily into the wood



Creates a hidden assembly

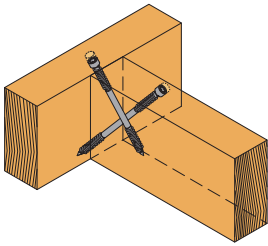


Good load bearing performance in skewed installations

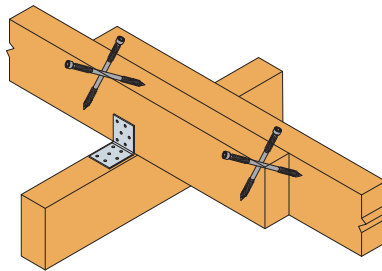
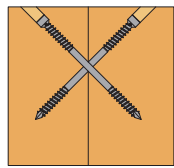


The double thread with differentiated pitch pulls the wood members together

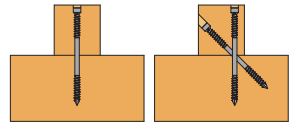
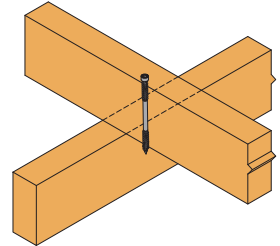
Installation examples:



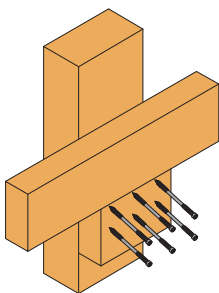
Cross-screwing creates a strong connection that can obtain loads in two force directions



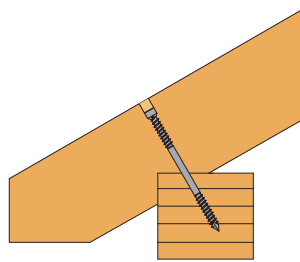
Connecting beams on a ledger



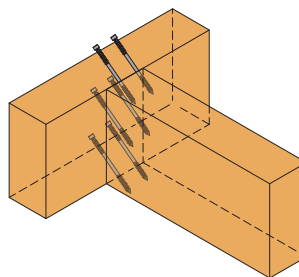
Fixing beams



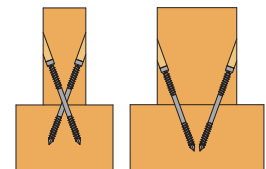
Joist support skewed installation



Trusses

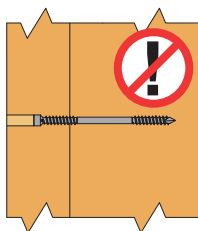
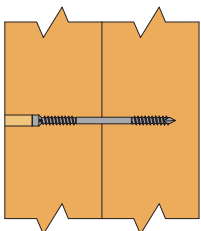


Beam-to-beam skewed installation

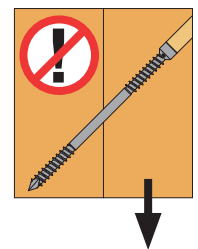
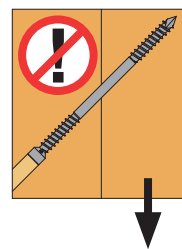
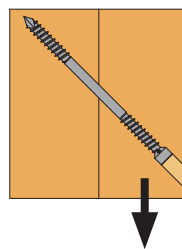
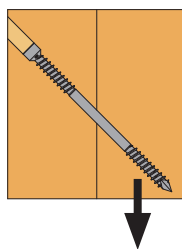


Fixing studs

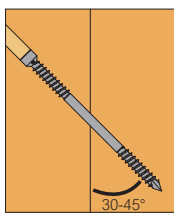
Important aspects to remember when using the SWD screws:



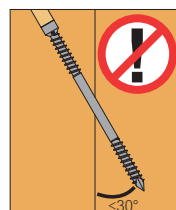
1. The screw should be installed so that the smooth middle part ends up where the two wood members meet each other.



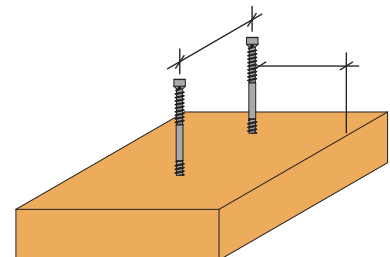
2. For skewed installations, always install the screws following the force direction, so that the screw will be under tension instead of compression.



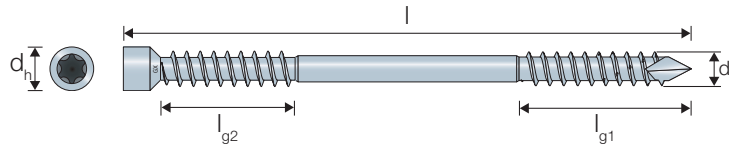
3. The optimal installation angle to obtain the highest transverse load bearing capacity is 30-45° between the screw and shear direction.



4. The angle between the screw and the wood fiber direction should never be less than 30°.



5. Ensure that minimum requirements for edge & internal distances are respected.



SWD Protec®+ Coating

Model No.	Item code	Dimensions [mm]					Bit	Box
		d	l	d _h	l _{g1}	l _{g2}		
SWD6.5X65	75425	6.5	65	8.0	28	21.5	T-30	50
SWD6.5X90	75426	6.5	90	8.0	40	33.5	T-30	50
SWD6.5X130	75427	6.5	130	8.0	40	33.5	T-30	50
SWD6.5X160	75428	6.5	160	8.0	65	58.5	T-30	50
SWD6.5X190	75429	6.5	190	8.0	80	73.5	T-30	50
SWD6.5X220	75430	6.5	220	10.0	95	88.5	T-30	50
SWD8.0X90	75431	8.0	90	10.0	40	31.5	T-40	50
SWD8.0X130	75432	8.0	130	10.0	40	31.5	T-40	50
SWD8.0X160	75433	8.0	160	10.0	65	56.5	T-40	50
SWD8.0X190	75434	8.0	190	10.0	80	71.5	T-40	50
SWD8.0X220	75435	8.0	220	10.0	95	86.5	T-40	50
SWD8.0X245	75436	8.0	245	10.0	107.5	99	T-40	50
SWD8.0X275	75437	8.0	275	10.0	107.5	99	T-40	50
SWD8.0X300	75438	8.0	300	10.0	135	126.5	T-40	50
SWD8.0X330	75439	8.0	330	10.0	135	126.5	T-40	50

For additional technical data, such as load-bearing capacities, installation data and more, visit our website www.strongtie.eu.

Characteristic Capacities

References	Characteristic Yield Moment M _{y,k} [Nm]	Characteristic withdrawal f _{ax,k,90°} [N/mm ²]	Characteristic head pull-through f _{head,k} [N/mm ²]	Characteristic tensile capacity f _{tens,k} [kN]
SWD6.5xℓ	14,5	13,0	29,4	14,3
SWD8.0xℓ	31,2	14,2	38,8	21,9

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Make you calculations with Solid Wood*

* Use the Solid Wood dimensioning software for your calculations: solidwood.strongtie.eu