Technical data sheet

SDW

Structural Wood Screw



The Strong-Drive® SDW screw is a 8.0mm diameter, high-strength structural wood screw specifically designed for fastening multi-ply wood members together such as plated trusses, engineered timber products and solid-sawn timber. CE marked to EN14592. Driver bit included in every box.

Features

Material

Heat treated carbon steel - black E-coat™

Features

The SDW installs easily with no pre-drilling and is available in optimized lengths for fastening 2, 3 and 4-ply trusses or 45mm engineered timber such as Laminated Veneer Lumber (LVL). The SDW enables single-side fastening, while still allowing concurrent loading on both sides of the assembly to the full allowable head or point-side load of the fastener.

- CE marked to EN14592
- Low-profile head for reduced interference during handling or installation of hardware on the assembly
- High shear values enable wider screw spacing
- Bold thread design firmly clinches plies together to close gaps in multi-ply assemblies
- Optimal screw lengths provide maximum point side penetration
- Driver bit included in each box

Applications

Support

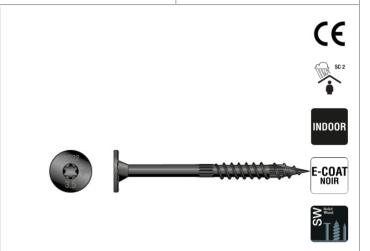
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Common Applications

- Fastening of multiple wood elements including uprights and trusses
- Solid wood
- Engineered timber

Warning:

Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Accordingly, the SDW timber screws should only be used in dry,





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Product Dimensions

Deference	Fastener Dimensions [mm]					Driver Bit
References	I	l _g	d ₁	d	d _h	Dilver dit
SDW22258-R50E	66	36		8	19	T-40
SDW22300-R50E	76	37		8	19	T-40
SDW22338-R50E	86	40		8	19	T-40
SDW22438-R50E	111	37		8	19	T-40
SDW22458-R50E	117	37	5.6	8	19	T-40
SDW22500-R50E	127	40		8	19	T-40
SDW22600-R50E	152	37	1	8	19	T-40
SDW22638-R50E	162	37		8	19	T-40
SDW22634-R50E	172	40		8	19	T-40

Structural Parameters - hEN14592

References	Characteristic Yield Moment - Threaded Section - M _{y,k} [M _{y,k}] [Nm]	Characteristic withdrawal parameter - f _{ax,k,90°} [f _{ax,k,90°}] [N/mm²]	Characteristic head pull- through parameter - f _{head,k} [f _{head,k}] [IV/mm²]	Characteristic tensile capacity - f _{tens,k} [f _{tens,k}] [kN]	Characteristic torsional strength - f _{tor,k} [f _{tor,k}] [Nm]	Torsional ratio
SDW22258- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22300- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22338- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22438- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22458- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22500- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22600- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22638- R50E	17.4	13.2	21.4	21.4	24.2	4.5
SDW22634- R50E	17.4	13.2	21.4	21.4	24.2	4.5

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Installation

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- SDW screws install best with a low-speed drill and a T40 6-lobe bit (bit included with every box of screws).
- Pre-drilling is typically not required. SDW screws may be installed through metal truss plates as approved by the truss designer
- Drive the fastener so that the top of the head is slightly embedded into the top surface of the timber. To ensure correct performance, do not under or over-drive the fastener.
- Individual screw locations may be adjusted up to 75mm to avoid conflicts with other hardware or to avoid timber defects.







Truss Assembly



Frame reinforcemen





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