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

c

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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Technical Data

Product Dimensions

References	Fastener Dimensions [mm]					Driver Bit
	l	l_g	d_1	d	d_h	
SDW22258-R50E	66	36	5.6	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		8	19	T-40
SDW22500-R50E	127	40		8	19	T-40
SDW22600-R50E	152	37		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 - $f_{head,k}$ [$f_{head.k}$] [N/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

Installation

Installation

- 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.

Stud Wall Assembly

Truss Assembly

Frame reinforcemen

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