

# 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,**



SDW  
Structural Wood Screw

## Technical Data



### Product Dimensions

References	Fastener Dimensions [mm]					Driver Bit	Weight [kg]
	l	l <sub>g</sub>	d <sub>1</sub>	d	d <sub>h</sub>		
SDW22258-R50E	66	36	5.6	8	19	T-40	0.018
SDW22300-R50E	76	37		8	19	T-40	0.02
SDW22338-R50E	86	40		8	19	T-40	0.021
SDW22438-R50E	111	37		8	19	T-40	0.025
SDW22458-R50E	117	37		8	19	T-40	0.028
SDW22500-R50E	127	40		8	19	T-40	0.03
SDW22600-R50E	152	37		8	19	T-40	0.034
SDW22638-R50E	162	37		8	19	T-40	0.037
SDW22634-R50E	172	40		8	19	T-40	0.038

### Structural Parameters - hEN14592

References	Characteristic Yield Moment - Threaded Section - M <sub>y,k</sub> [M <sub>y,k</sub> ] [Nm]	Characteristic withdrawal parameter - f <sub>ax,k,90°</sub> [f <sub>ax,k,90°</sub> ] [N/mm <sup>2</sup> ]	Characteristic head pull-through parameter - f <sub>head,k</sub> [f <sub>head,k</sub> ] [N/mm <sup>2</sup> ]	Characteristic tensile capacity - f <sub>tens,k</sub> [f <sub>tens,k</sub> ] [kN]	Characteristic torsional strength - f <sub>tor,k</sub> [f <sub>tor,k</sub> ] [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

## SDW Structural Wood Screw

### 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.



*Stud Wall Assembly*



*Truss Assembly*



*Frame reinforcement*

