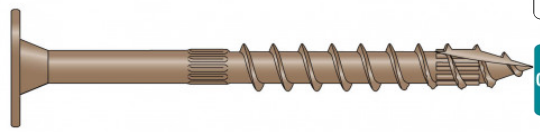
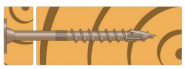
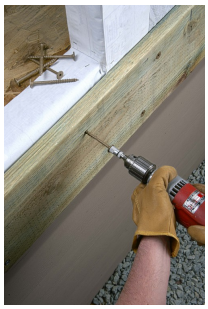
Teknisk datablad

SDWS
Konstruktionsskrue, udendørs

SDWS konstruktionsskruer til udendørs brug installeres uden forboring. Den patenterede spids sikrer at skruen hurtigt bider sig fast i træet og der er på ingen måde grund til at bore for. Skruens grove gevind giver en høj udtrækstyrke og det store lavprofilerede skivehoved betyder at man ikke behøver underlagsskiver.







Stud wall assembly

Railing fastening

Egenskaber

Materiale

- Kulstofstål med Double-barrier® coating

Fordele

- Ingen forboring
- Lavprofileret skivehoved fungerer som underlagsskive.
- Savtakket gevind på spidsen sikrer et hurtigt 'bid' i træet.
- TX-recess for optimal kontakt med bits.
- Double-barrier® coating giver tilstrækkelig beskyttelse til udendørs installationer og til brug i trykimprægneret træ.

Anvendelse

Samlinger

- Træ-træ

Anvendelsesområder

- Fastgørelse af træ

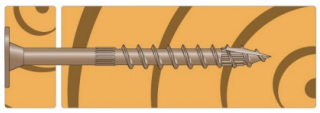
Teknisk datablad

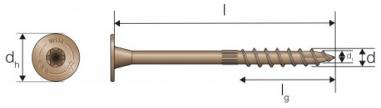
SDWS
Konstruktionsskrue, udendørs

SIMPSON Strong-Tie

Teknisk data

Dimensioner





Art. nr.	DB nr.	Dimensioner [mm]						Antal pr. kasse
		d	l	d_h	d_1	l_g	Bit	
SDWS08X75DB	2066741	8	75	19.4	5.2	37	T-40	50
SDWS08X100DB	2066736		100	19.4	5.2	59	T-40	50
SDWS08X126DB	2066737		126	19.4	5.2	69	T-40	50
SDWS08X151DB	2066738		151	19.4	5.2	69	T-40	50
SDWS08X202DB	2066739		202	19.4	5.2	69	T-40	50
SDWS08X252DB	2066740		252	19.4	5.2	69	T-40	50

Produktkarakteristiske egenskaber

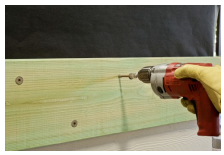
Art. nr.	Bøjningsstyrke $M_{y,k}$ [$M_{y,k}$] [Nm]	Karakteristisk udtrækningsparameter - $f_{ax,k,90°}$ [$f_{ax.k.90°}$] [N/mm²]	Karakteristisk gennemtræksparameter - $f_{head,k}$ [$f_{head.k}$] [N/mm²]	Karakteristisk trækstyrke - $f_{tens,k}$ [$f_{tens.k}$] [kN]	Karakteristisk vridningsstyrke - $f_{tor,k}$ [$f_{tor.k}$] [Nm]
SDWS08X75DB	17.4	13.2	21.4	21.4	24.2
SDWS08X100DB	17.4	13.2	21.4	21.4	24.2
SDWS08X126DB	17.4	13.2	21.4	21.4	24.2
SDWS08X151DB	17.4	13.2	21.4	21.4	24.2
SDWS08X202DB	17.4	13.2	21.4	21.4	24.2
SDWS08X252DB	17.4	13.2	21.4	21.4	24.2

Montering

Monteringsvejledning

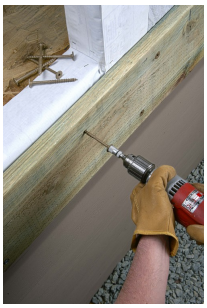
- Installeres med TX-40

Railing fastening



Exterior timber element fastening

Exterior timber element fastening



Stud wall assembly

SDWS
Konstruktionsskrue, udendørs

Bæreevner

Timber to Timber characteristic capacities

Art. nr.	Product characteristic capacities - Timber to Timber C24															
	Axial resistance		Shear resistance parallel to the grain depending of t_1 [Rv.0.k] [kN]							Shear resistance perpendicular to the grain depending of t_1 [Rv.90.k] [kN]						
	t_1 [mm]	$R_{ax.k}$ [kN]	35 [mm]	40 [mm]	45 [mm]	60 [mm]	75 [mm]	80 [mm]	≥100 [mm]	35 [mm]	40 [mm]	45 [mm]	60 [mm]	75 [mm]	80 [mm]	≥100 [mm]
SDWS08X75DB	40	3.41	3.21	3.26	3.05	-	-	-	-	3.21	3.26	3.05	-	-	-	-
SDWS08X100DB	43	5.49	3.74	3.95	3.97	-	-	-	-	3.74	3.95	3.97	-	-	-	-
SDWS08X126DB	60	6.35	3.95	4.17	4.19	4.19	-	-	-	3.95	4.17	4.19	4.19	-	-	-
SDWS08X151DB	85	6.35	3.95	4.17	4.19	4.19	4.19	4.19	-	3.95	4.17	4.19	4.19	4.19	4.19	-
SDWS08X202DB	137	6.35	3.95	4.17	4.19	4.19	4.19	4.19	4.19	3.95	4.17	4.19	4.19	4.19	4.19	4.19
SDWS08X252DB	186	6.35	3.95	4.17	4.19	4.19	4.19	4.19	4.19	3.95	4.17	4.19	4.19	4.19	4.19	4.19

These capacities are valid for:

- Timber element under the head with thickness ≤ t_1 disclosed in adjacent column
- Screw axis between 45° and 90° from timber grain for ESCR(XXX), and 90° from timber grain for all other screws.

For tightening screws (partially threaded), t_1 dimension is the maximum thickness of the under-head timber member for which the thread is fully in the pointside timber member, for an optimum installation and tightening.
The shear capacities are given for several timber thicknesses t_1 of the under-head member under the following configurations:

- Load axis at 0° from both timber grains $R_{v.0°.k}$
- Load axis at 90° from both timber grains $R_{v.90°.k}$

These capacities are valid for C24 timber grades or higher
The pre-drilled hypothesis for capacity and distances calculation is fulfilled.
For partial threaded screws, capacities are only given for configurations where the thread is less than 5mm in under-head timber member, in order to achieve optimum installation and tightening.
Clause (2) in 8.3.1.2 from EN1995-1-1:2004+A2:2014 about embedment length is ignored in these calculations.

Steel to Timber characteristic capacities

Art. nr.	Product characteristic capacities - Steel to Timber C24				
	Axial resistance [Rax.st.k] [kN]	Shear resistance - Thin plate		Shear Resistance - Thick steel	
		$R_{v.0.st.k}$ [kN]	$R_{v.90.st.k}$ [kN]	$R_{v.0.st.k}$ [kN]	$R_{v.90.st.k}$ [kN]
SDWS08X75DB	3.41	3.45	3.45	4.53	4.53
SDWS08X100DB	5.49	3.97	3.97	5.05	5.05
SDWS08X126DB	6.35	4.19	4.19	5.26	5.26
SDWS08X151DB	6.35	4.19	4.19	5.26	5.26
SDWS08X202DB	6.35	4.19	4.19	5.26	5.26
SDWS08X252DB	6.35	4.19	4.19	5.26	5.26

Shear capacities are given for thick (t_{st} = d) and thin (t_{st} = 0,5xd) steel plates under the following configurations:

- Load axis at 0° from timber grain $R_{v.0°.k}$
- Load axis at 90° from timber grain $R_{v.90°.k}$

These capacities are valid for C24 timber grades or higher.
For intermediate steel thicknesses, capacities shall be calculated by linear interpolation between the limiting thin and thick plate values.
The pre-drilled hypothesis for capacity and distances calculation is fulfilled.

Ledger on Stud characteristic capacities

Art. nr.	Product characteristic capacities - Ledger on stud C24									
	Minimum width of the stud [mm]	Minimum distance to the bottom side of the ledger $a_{4,c}$ [mm]	Shear capacity depending of thickness of ledger t_1 [Rv.90-0.k] [kN]							
			35 [mm]	40 [mm]	45 [mm]	60 [mm]	75 [mm]	80 [mm]	90 [mm]	≥100 [mm]
SDWS08X75DB	46	23	3.45	3.26	2.93	-	-	-	-	-
SDWS08X100DB	46	23	3.97	3.97	3.92	-	-	-	-	-
SDWS08X126DB	46	23	4.19	4.19	4.19	4.19	-	-	-	-
SDWS08X151DB	46	23	4.19	4.19	4.19	4.19	4.19	4.19	4.07	-
SDWS08X202DB	46	23	4.19	4.19	4.19	4.19	4.19	4.19	4.19	4.19
SDWS08X252DB	46	23	4.19	4.19	4.19	4.19	4.19	4.19	4.19	4.19

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