Technical Sheet

SDCFC
Fully Threaded Cylinder Head Structural Screw

The SDCFC cylindrical head structural wood screw with full thread is designed for timber framing, framework and reinforcement. This screw can be used for a wide range of applications in professional wood construction.



Features

Material

- Hardened Carbon Steel
- Black E-Coat™

Applications

Advantages

- **Countersunk head:** ideal for timber/timber or steel/timber assembly with head flush with surface
- **Underhead ribs:** for a clear finish and no timber superficial split
- **Full asymetrical thread** for a maximum withdrawal capacity, allows compressive load bearing
- **SawTooth® point:** fast start, easy driving, no need for pre-drilling
- **Torx driven:** reduces the wear of the bit

Suitable for

- Solid Timber, Glulam timber, CLT, Wood-based panels

When to use

- Timber to timber assembly
- Timber reinforcement (to transversile tension or compression)

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SIMPSON Strong-Tie

Technical Data

Product Dimensions

Reference	Fasteners Dimensions[mm]										
	Item Code	Other				Product Dimensions[mm]					
		Tun / DB nr.	NOB nr.	Qty per box	Weight[kg]	d[mm]	l[mm]	Thread Length[mm]	dh[mm]	d1[mm]	Driver Bit[mm]
SDCFC8X120	78446	2523245	60774125	50.0	0.033	8	120	110	10.2	5.2	T-40
SDCFC8X160	78447	2523247	60774126	50.0	0.038	8	160	150	10.2	5.2	T-40
SDCFC8X200	78448	2523249	60774127	50.0	0.053	8	200	190	10.2	5.2	T-40
SDCFC8X240	78449	2523250	60774128	50.0	0.063	8	240	230	10.2	5.2	T-40
SDCFC8X280	78450	2523252	60774129	30.0	0.074	8	280	270	10.2	5.2	T-40
SDCFC8X330	78451	2523254	60774130	30.0	0.086	8	330	320	10.2	5.2	T-40
SDCFC8X350	78452	2523255	60774131	30.0	0.091	8	350	340	10.2	5.2	T-40
SDCFC10X240	78456	2523262	60774135	25.0	0.091	10	240	228	13.4	6.2	T-50
SDCFC10X300	78457	2523263	60774136	25.0	0.112	10	300	288	13.4	6.2	T-50
SDCFC10X380	78458	2523264	60774137	25.0	0.137	10	380	368	13.4	6.2	T-50
SDCFC10X500	78459	2523266	60774138	25.0	0.157	10	500	476	13.4	6.2	T-50
SDCFC10X600	78460	2523267	60774139	15.0	0.193	10	600	576	13.4	6.2	T-50
SDCFC10X800	78461	2523269	60774140	15.0	0.263	10	800	776	13.4	6.2	T-50
SDCFC10X1000	78462	2523271	60774141	15.0	0.313	10	1000	976	13.4	6.2	T-50

Product characteristic properties

Reference	Screw Parameters				
	Characteristic parameters				
	Characteristic Yield Moment – My,k[Nm]	Characteristic withdrawal parameter - $f_{ax,k,90°}$[N/mm²]	Characteristic head pull-through parameter - $f_{head,k}$[N/mm²]	Characteristic tensile capacity - $f_{tens,k}$[kN]	Characteristic torsional strength - $ftor,k$[Nm]
SDCFC8X120	21.9	13.4	9.4	21.7	25
SDCFC8X160	21.9	13.4	9.4	21.7	25
SDCFC8X200	21.9	13.4	9.4	21.7	25
SDCFC8X240	21.9	13.4	9.4	21.7	25
SDCFC8X280	21.9	13.4	9.4	21.7	25
SDCFC8X330	21.9	13.4	9.4	21.7	25
SDCFC8X350	21.9	13.4	9.4	21.7	25
SDCFC10X240	37.9	13	9.4	32.9	46
SDCFC10X300	37.9	13	9.4	32.9	46
SDCFC10X380	37.9	13	9.4	32.9	46
SDCFC10X500	37.9	13	9.4	32.9	46
SDCFC10X600	37.9	13	9.4	32.9	46
SDCFC10X800	37.9	13	9.4	32.9	46
SDCFC10X1000	37.9	13	9.4	32.9	46

Installation

Spacing and Edge distances - Shear loaded screws

Reference	Screw spacing										
	Minimum distances - Shear loaded fastener[mm]										
									and grain = 90°		
	a1.0[									c.90[mm]	a4.t.90[mm]
SDCFC8X120	9(									80	80
SDCFC8X160	9(									80	80
SDCFC8X200	9(									80	80
SDCFC8X240	9(									80	80
SDCFC8X280	96	40	120	80	40	40	40	40	80	80	80

Spacing and Edge distances - Shear loaded screws
See full table online ➡️

Spacing and edge distances - Axially loaded screws

Reference	Screw spacing			
	Minimum distances - Axialy loaded fastener[mm]			
	a1[mm]	a2[mm]	a1.cg[mm]	a2.cg[mm]
SDCFC8X120	80	24	64	24
SDCFC8X160	80	24	64	24
SDCFC8X200	80	24	64	24
SDCFC8X240	80	24	64	24
SDCFC8X280	80	24	64	24
SDCFC8X330	80	24	64	24
SDCFC8X350	80	24	64	24
SDCFC10X240	100	30	80	30
SDCFC10X300	100	30	80	30
SDCFC10X380	100	30	80	30
SDCFC10X500	100	30	80	30
SDCFC10X600	100	30	80	30
SDCFC10X800	100	30	80	30
SDCFC10X1000	100	30	80	30

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