Engineered Strength for Mass Timber Connections

Structural Timber to Timber Connections Including Glulam and CLT Cross Pair Applications

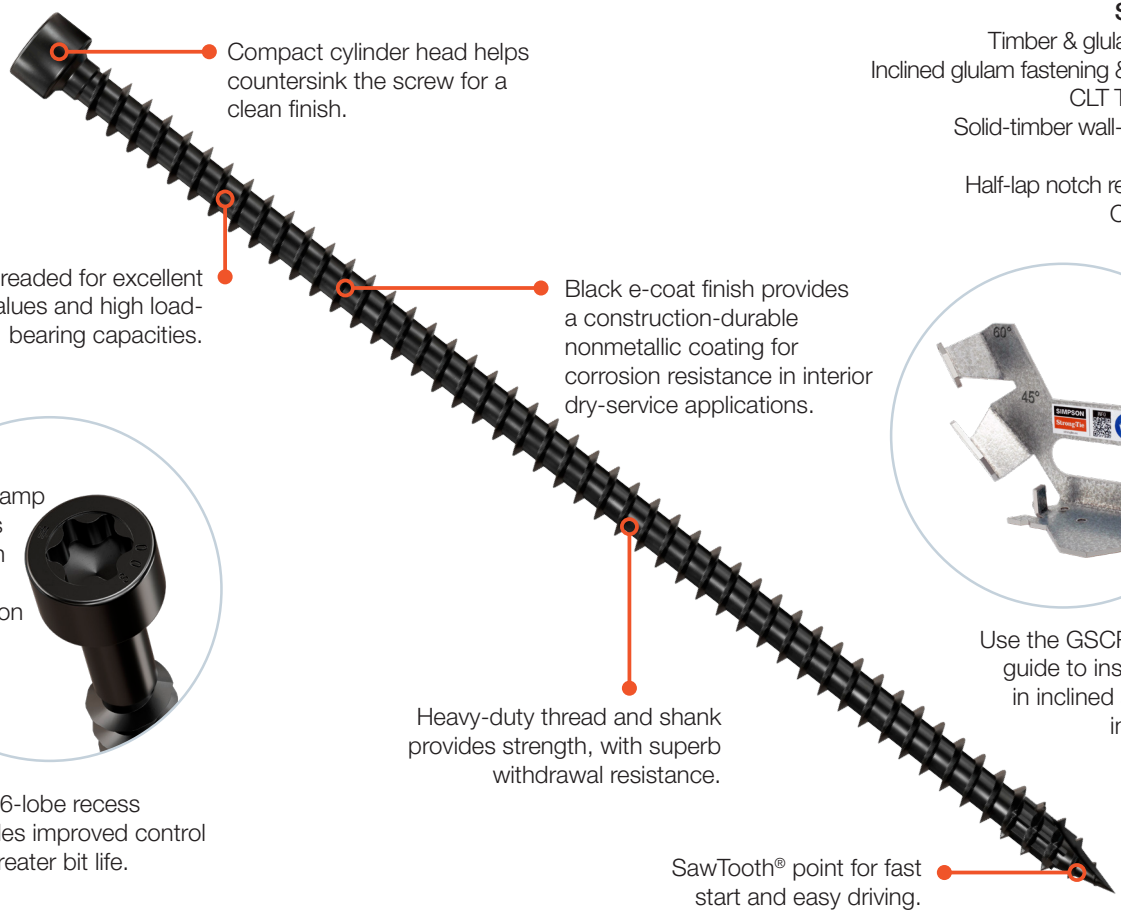
The newly redesigned Solid-Drive® SDCFC screw is a robust structural fastener for demanding applications involving large members such as mass timber. A fully threaded shank provides withdrawal resistance, and the compact cylinder head creates a clean finish when left exposed, or a concealed finish when countersunk. The SawTooth® point ensures fast starts, reducing installation torque and eliminating the need for predrilling in most applications. The black e-coat finish enhances aesthetics and, along with the optimized hardness profile, helps mitigate risk of brittle fracture for reliable, long-term performance.

Codes/Standards: ETA-21/0670

ETA-21/0670

SDCFC screws in glulam application.

Features



Deep 6-lobe recess provides improved control and greater bit life.

Suitable for:
Timber & glulam fastening
Inclined glulam fastening & cross pairs
CLT T-connection
Solid-timber wall-plate to CLT
CLT half-lap
Half-lap notch reinforcement
CLT butt-joint

Use the GSCREW screw guide to install SDCFC in inclined and angled installations.

Technical Support Contact your local Simpson Strong-Tie technical support team at any time during the design stage. We can advise the optimal nail pattern and load capacity.

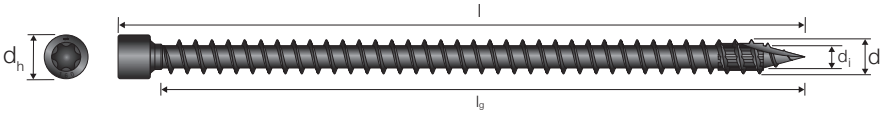
Solid·Drive™ SDCF Fully Threaded Screw – NEW! Black E-Coat

Advantages of Black E-Coat

Black E-Coat reduces the risk of hydrogen embrittlement, which is a malfunction phenomonon seen on zinc coated screws when they are put under a lot of stress.

E-coat is a construction-durable non-metallic coating for corrosion resistance in interior dry-service applications.

To know more about hydrogen embrittlement and how to avoid it, go to our website **strongtie.eu.**



Black E-Coat
C2 acc. to EN ISO 12944-2
SC2 – 50 years acc. to EC5

SDCFC – Range Overview

Reference	Article code	Dimensions [mm]				
		d	l	l_g	d_h	d_l
SDCFC8X120	78446	8,0	120	110	10,2	5,2
SDCFC8X160	78447	8,0	160	150	10,2	5,2
SDCFC8X200	78448	8,0	200	190	10,2	5,2
SDCFC8X240	78449	8,0	240	230	10,2	5,2
SDCFC8X280	78450	8,0	280	270	10,2	5,2
SDCFC8X330	78451	8,0	330	320	10,2	5,2
SDCFC8X350	78452	8,0	350	340	10,2	5,2
SDCFC10X240	78456	10,0	240	228	13,4	6,2
SDCFC10X300	78457	10,0	300	288	13,4	6,2
SDCFC10X380	78458	10,0	380	368	13,4	6,2
SDCFC10X500	78459	10,0	500	476	13,4	6,2
SDCFC10X600	78460	10,0	600	576	13,4	6,2
SDCFC10X800	78461	10,0	800	776	13,4	6,2
SDCFC10X1000	78462	10,0	1000	976	13,4	6,2

SDCFC – Characteristic Parameters

Reference	Characteristic Parameters				
	$M_{y,k}$ [Nmm]	$f_{ax,k}$ [N/mm²]	$f_{tens,k}$ [kN]	$f_{tor,k}$ [Nm]	$f_{y,k}$ [N/mm²]
SDCFC8	21,9	13,4	21,7	25	1000
SDCFC10	37,9	13	32,9	46	1000

$f_{ax,k}$ is the characteristic withdrawal parameter for timber with a characteristic density of 350 kg/m³

Ratio of the characteristic torsional strength to the mean insertion moment: $f_{tor,k} / R_{tor,mean} \geq 1,5$

Use Fastener Designer to make your calculations.

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