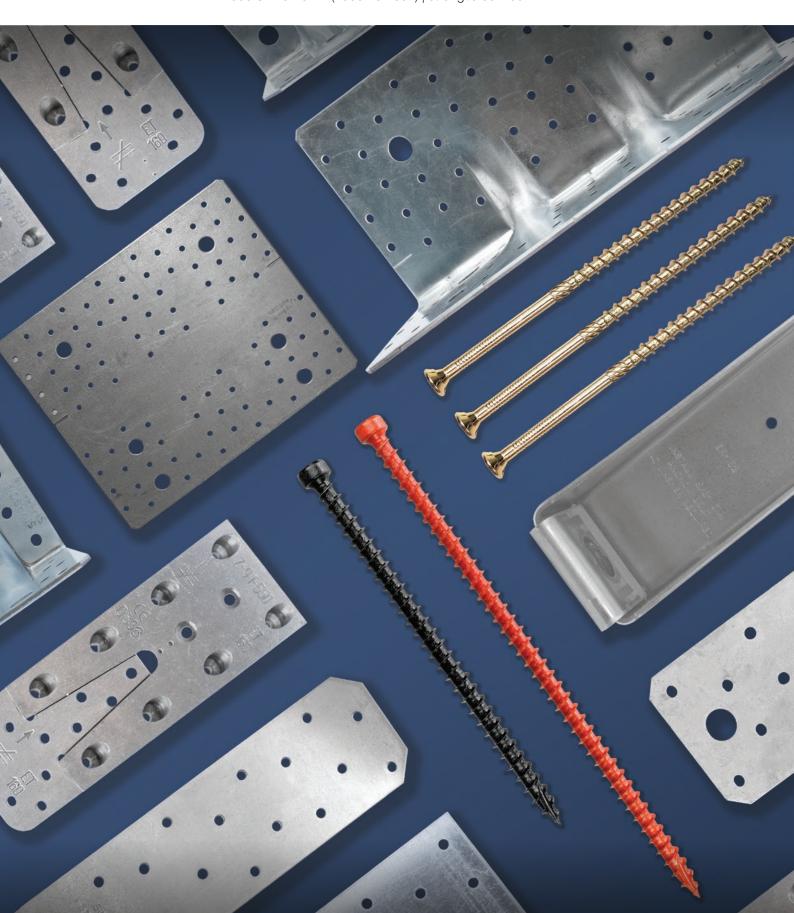
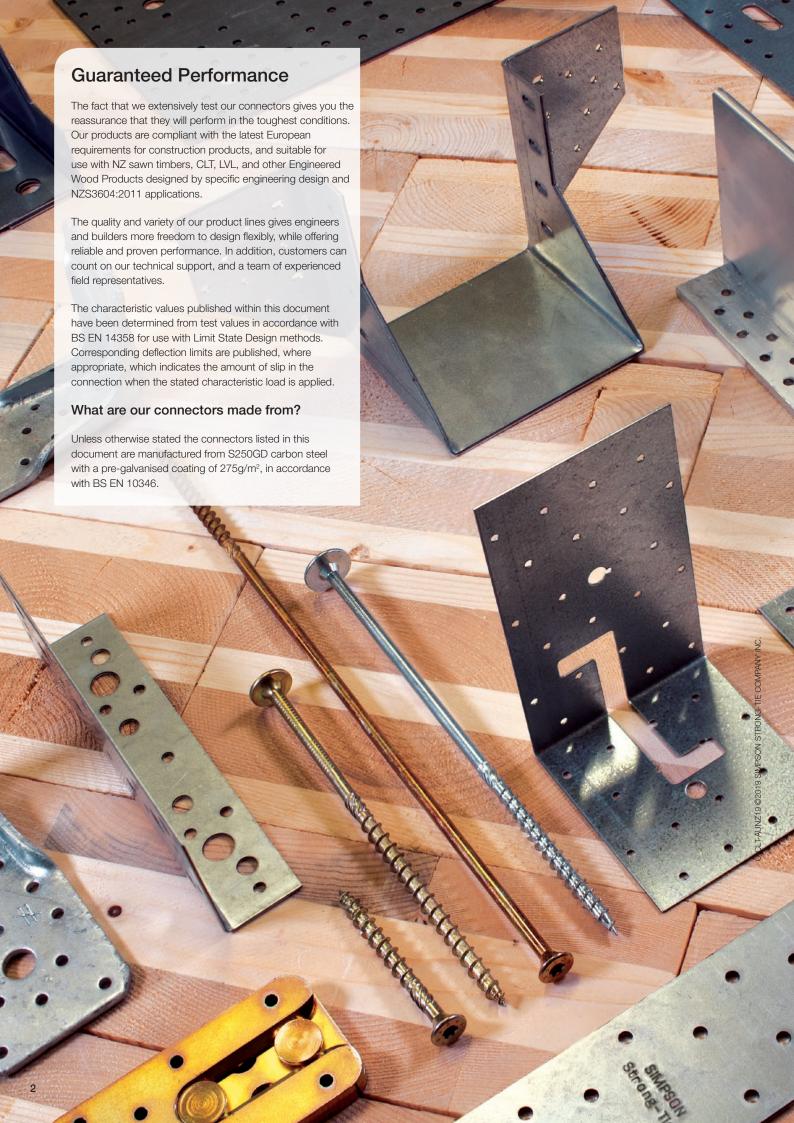
STRUCTURAL CONNECTOR & FASTENER SOLUTIONS



for CLT & Engineered Wood Products

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For a full range of connectors to suit beams, joists, rafters or similar structural members - refer to our timber connector catalogue.

About Simpson Strong-Tie®



Quality Policy

We help people build safer structures economically. We do this by designing, engineering and manufacturing "No Equal" structural connectors and other related products that meet or exceed our customers' needs and expectations.

Everyone is responsible for product quality and is committed to ensuring the effectiveness of the Quality Management System. Simpson Strong-Tie® is an ISO 9001 registered company. ISO 9001 is an internationally recognised quality management system standard, which lets our customers know that they can count on the consistent quality of Simpson Strong-Tie® products and services.





Environmental, Health And Safety Policy

Simpson Strong-Tie® continues to look for ways to build safer and stronger structures while being mindful of how we can help protect the environment and the health and safety of our employees. We are committed to environmental management, including health, safety and ecological protection.

Simpson Strong-Tie® is accredited to the internationally recognised standards for environmental health & safety management systems.





Testing Laboratory Accreditation

Our European Test Laboratory located in Tamworth, Staffordshire is the first manufacturer's facility to achieve third party accreditation to the international standard BS EN ISO/IEC 17025.

The fact that we extensively test our connectors gives you the reassurance that they will perform in the toughest conditions. We strive to ensure that our products are compliant with the latest European requirements for construction products.







Introduction to Cross-Laminated Timber



Cross-Laminated Timber (CLT) is growing in popularity as a sustainable and beautiful construction material. Practical too, CLT can be used for walls, floors and ceilings and is well suited to offsite assembly.

CLT has various benefits making it an attractive building material. These benefits include:

Design flexibility - CLT has many applications. It can be used in walls, roofs or ceilings. The thickness of the panels can easily be increased by adding more layers and the length of the panels can be increased by joining panels together.

Prefabrication - floors or walls made from CLT can be fully manufactured before reaching the construction site, which decreases lead times and could potentially lower overall construction costs.

Engineers and Architects are now favouring CLT for its elegance, sustainability and its cosmetic appearance.

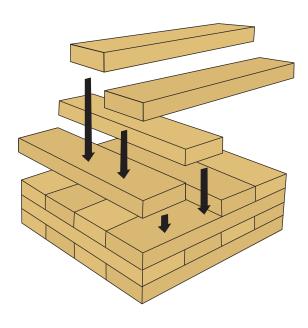
CLT Panel Manufacture

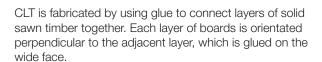
This is a highly involved and technical process.

Timber lengths are prepared and cut to suit the application and project requirements.

Adhesive is applied to the timber, and it is then arranged in perpendicular layers

Hydraulic pressing is used for panels where higher pressures or specific pressure values at the panel edges are required. Otherwise vacuum pressing is employed to assemble the panels as this allows several panels to be pressed simultaneously. This method also allows pressure to be applied to curved panels.







Stadthaus, Murray Grove. Image courtesy of KLH UK.

Understanding The Corrosion Issue

Many environments and materials can cause corrosion, including ocean salt air, fire retardants, fumes, fertilizers, preservative-treated wood, de-icing salts, dissimilar metals and more. Metal connectors, fasteners and anchors could corrode and lose load-carrying capacity when installed in corrosive environments or when installed in contact with corrosive materials.

The many variables present in a building environment make it impossible to accurately predict if, or when, corrosion will begin or reach a critical level. This relative uncertainty makes it crucial that specifiers and users are knowledgeable of the potential risks and select a product suitable for the intended use. It is also prudent that regular maintenance and periodic inspections are performed, especially for outdoor applications.

It is common to see some corrosion in outdoor applications. Even stainless steel can corrode. The presence of some

kinds of corrosion, e.g. white rust on zinc, does not mean that load capacity has been affected or that failure is imminent. If significant corrosion, e.g. red rust, is apparent or suspected, then a qualified engineer or inspector should inspect the framing members, fasteners and connectors. Replacement or cleansing of affected components may be appropriate. Red rust corrosion of steels will mostly carry on increasing and will cause major damage at an advanced stage.

Due to the many different chemical treatment formulations, chemical retention levels, moisture conditions and formulation variants, selection of coatings has become a complex task. It is important to fully educate yourself by reviewing information, literature and evaluation reports, and to select the fastener coating so that it fits with the connector coating to avoid decreased performance of the connection.

Galvanic corrosion

Galvanic corrosion (also known as bimetallic corrosion, dissimilar metal corrosion or contact corrosion) may occur when dissimilar metals (e.g. galvanised mild steel and stainless steel) are in contact in a corrosive electrolyte (e.g. water containing salt, acid, etc.). When a galvanic couple forms, one of the metals in the couple becomes the anode and corrodes faster than it would all by itself, while the other becomes the cathode and corrodes slower than it would alone. For galvanic corrosion to occur, three conditions must be present:

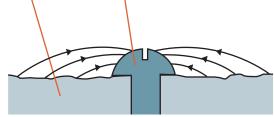
- 1. Electrochemically dissimilar metals must be present,
- 2. These metals must be in electrical contact,
- 3. The metals must be exposed to an electrolyte.

The relative nobility of a material can be predicted by measuring its corrosion potential. The well-known galvanic series, (see right) lists the relative nobility of certain materials in seawater. A small anode/cathode area ratio is highly undesirable. In this case, the galvanic current is concentrated onto a small anodic area. Rapid thickness loss of the dissolving anode tends to occur under these conditions. Adverse area ratios are likely to occur with fasteners at joints. Carbon steel fasteners used with

stainless steel connectors should be avoided because the ratio of the area between the stainless steel to carbon steel is small and the fasteners will be subject to aggressive attack, thus greater corrosion. Conversely, the rate of attack of a carbon steel connector secured by a stainless steel fastener is much slower.

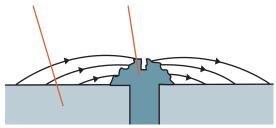
Corroded end (Anode)
Magnesium, Magnesium alloys and Zinc
Aluminium, Cadium, Iron and Steel
Lead, Tin, Nickel and Ni-Cr alloy
Brasses, Copper and Cu-Ni alloys
Nickel
Stainless steels
Protected end (Cathode)

Carbon Steel Stainless Steel



Large Anode (Carbon Steel) area, small Cathode (stainless steel fastener) area showing no attack on the fasteners and relatively insignificant attack of carbon steel.

Stainless Steel Carbon Steel



Large Cathode (Stainless Steel) area, small Anode (carbon steel fastener) area showing no attack on the stainless steel and relatively increased attack of the fastener.

HTT/DTT Hold Down



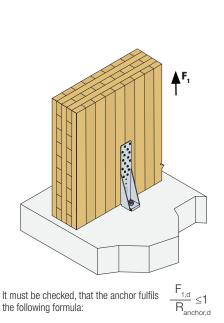
Ideal for existing or new construction, HTT and DTT hold downs provide a high strength timber to concrete, or timber to timber tension connection.

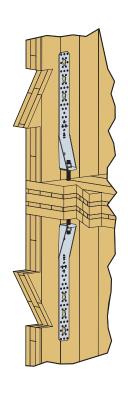
The long vertical legs on the HTT range makes it possible to add the required number of fasteners nails or screws in a vertical post and still comply to relevant standards with regards to fastener spacing requirements.

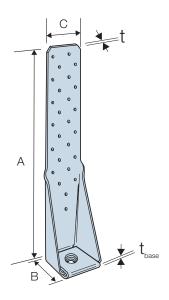
The unique design of the HTT - a multi-ply seat formed from a single piece of steel - gives the tension tie extra strength at the concrete anchorage point. Timber structures that are subjected to uplift forces can be connected to a concrete support with the HTT hold down.

Material: Pre-galvanised mild steel.









ABR255 Hold Down Bracket

The ABR255 is a hold down bracket designed for fixing CLT panels to concrete / timber floors and parapet walls. Very versatile, it is particularly resistant to shear loads thanks to its optimized geometry.

Material: Pre-galvanised mild steel.

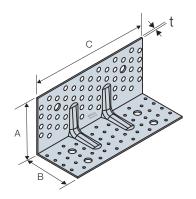
- One-piece connector.
- 255mm wide with 120 and 100mm length legs.
- Reinforcing ribs provide enhanced performance.
- High performance for horizontal (F_2 / F_3) and vertical (F_4) loads directions.

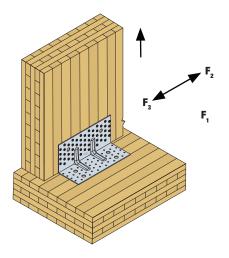


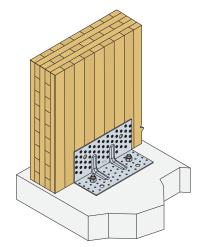
ABR255

Product Dimensions: ABR255

Model No.		Dimensions	[mm]		Qty Hole	s Flange A	Qty Holes Flange B	
MOUGH NO.	А	В	С	t	Ø5	Ø14	Ø5	Ø14
ABR255	120	100	255	3	52	2	41	4







TFLS Timber Frame Levelling System



TFLS provides the combined function of levelling and fixing the sole plate to the foundation or substructure. It comprises a universal base plate and packing pieces which can be added or removed as required. The system can be designed to transfer vertical and lateral loads from the wall to the foundation.

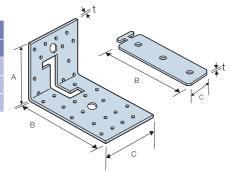
Material: Pre-galvanised mild steel.

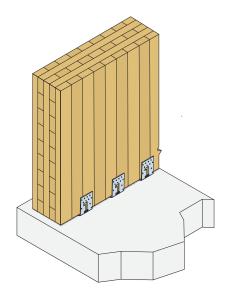
- Adaptable accommodates structural packing up to 30mm deep.
- Universal suitable for walls of 89mm and 140mm construction.
- Flexible packing pieces can easily be added or removed from the base plate to achieve the required depth.
- Multiple holes in bracket offer a variety of fixing options.
- The TFLS is laid on top of the DPC.
- If the TFLS bracket and/or packers are installed at every load point then it is not necessary to fill the void between the underside of the sole plate and the foundation with structural grout (filling of void may be required to satisfy other requirements.)



Product Dimensions: TFLS

Model No.		Dimensions	[mm]	Qty Holes	Flange A	Qty Holes Flange B		
Model No.	А	В	С	t	Ø3	Ø8	Ø3	Ø8
TFLS	89	140	83	1.0	10	1	19	1
TFLSPK89	-	89	39	2.0	-	-	-	2
TFLSPK140	-	140	39	2.0	-	-	-	3





ABR Reinforced Angle Brackets

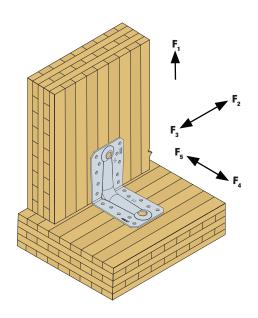
The ABR9020 and ABR10525 reinforced angle brackets are designed for fixing CLT panels to timber floors and parapet walls. Reinforcing ribs provide enhanced performance.

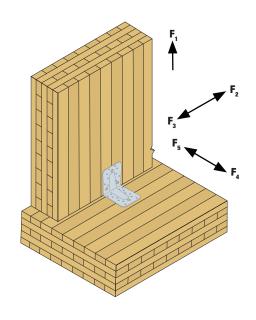
Material: Pre-galvanised mild steel.

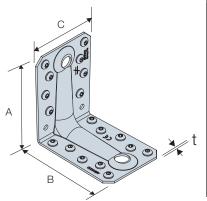


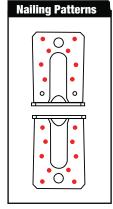
Product Dimensions: ABR9020 / ABR10525

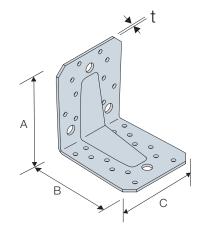
Model No.		Dimensio	ons [mm]			Qty Holes Flange A		Qty Holes Flange B			
	A	В	С	t	Ø5	Ø11	Ø13	Ø5	Ø11	Ø13	
ABR9020	88	88	65	2.0	10	-	1	10	1	-	
ABR10525	105	105	90	2.5	10	2	1	14	-	1	

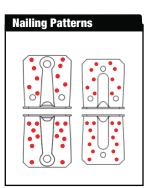












NPB Nail Plate for Butt Joints with CLT

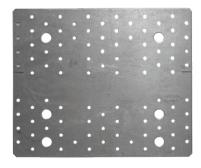


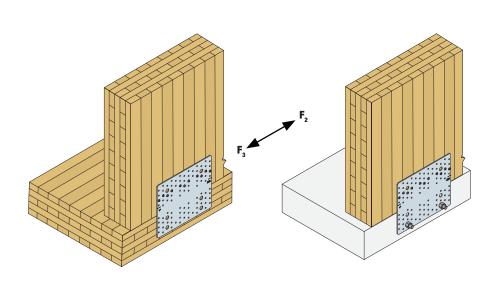
NPB255 nail plate has been developed specifically to fix CLT panels to timber or concrete.

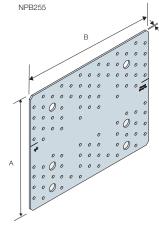
Material: Pre-galvanised mild steel.

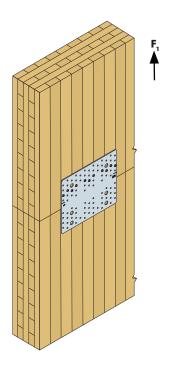
Product Dimensions: NPB

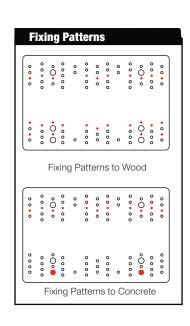
Model No.	Dim	ensions [r	nm]	Qty F Upj		Qty Holes Lower		
Wodel No.	А	В	t	Ø5	Ø1	Ø5	Ø14	
NPB255	214	214 255		52	2	41	4	











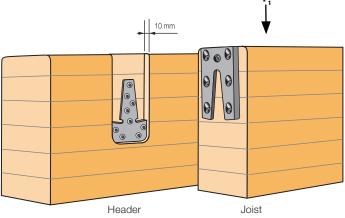
ETB Concealed Beam Hanger

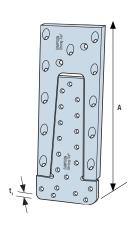
For a concealed connection, the ETB concealed connector comes in two parts. The first is pocketed in the header timber and fixed with nails, while the second part is fitted to the end of the beam with screws. No slots or dowel holes need to be made, speeding up installation time on site.

Material: Joist plate: 10mm aluminium. Header plate: 6mm aluminium

Order nails and screws separately.

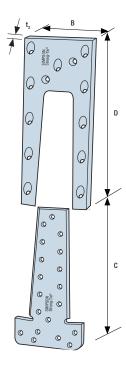






Product Dimensions: ETB

	Jo	Joist Size [mm] Connector Dimensio		nensions	[mm]		Header Holes	Joist Holes			
Model No.	Width	Heiç	ght	۸	A B		D t			Ø 5	Ø5.4
	Min	Min	Max	А		С	U	١	2	00	95.4
ETB120-B	70	150	200	121	60	85	95	6	10	9	6
ETB160-B	70	185	250	166	60	95	130	6	10	11	8
ETB190-B	90	220	300	195	75	138	165	6	10	19	11





ESCR Washer Head Structural Timber Screw

SIMPSON
Strong-Tie

The ESCR screws have a washer head and 6 lobe drive to aid installation and give excellent pull-through capacities.

Material: Heat treated carbon steel.

Benefits

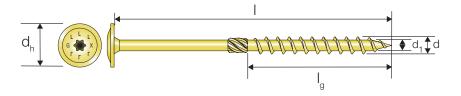
- High pull-out resistance.
- Reamer allows smooth driving.
- Connects two or more timbers together.

Finish: Electrogalvanised with yellow finish and anti-friction coating. Zinc coating thickness ≥ 5µm.

Warning: Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Accordingly, the ESCR timber screws should only be used in dry, interior and non-corrosive environments.

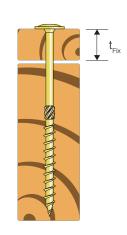
Installation:

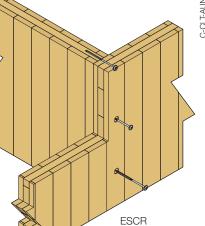
- The ESCR screws have a washer head and 6 lobe drive to aid installation and give excellent pullthrough capacities.
- Screws install best with an impact driver and a T40 6-lobe bit (included in the box).
- Pre-drilling is typically not required.
- Drive the fastener so that the top of the head is slightly embedded into the top surface of the timber. To ensure correct performance, do not under or over-drive the fastener.



Product Dimensions: ESCR

Model No.			Pro	duct Dimensior	ns [mm]		
Model No.	d	ı	d _h	d ₁	l _g	t _{six} (Max)	Bit
ESCR8.0x80	8	80	20	5.3	54	26	T-40
ESCR8.0x100	8	100	20	5.3	54	46	T-40
ESCR8.0x120	8	120	20	5.3	54	66	T-40
ESCR8.0x140	8	140	20	5.3	84	56	T-40
ESCR8.0x160	8	160	20	5.3	84	76	T-40
ESCR8.0x180	8	180	20	5.3	100	80	T-40
ESCR8.0x200	8	200	20	5.3	100	100	T-40
ESCR8.0x220	8	220	20	5.3	100	120	T-40
ESCR8.0x240	8	240	20	5.3	100	140	T-40
ESCR8.0x260	8	260	20	5.3	100	160	T-40
ESCR8.0x280	8	280	20	5.3	100	180	T-40
ESCR8.0x300	8	300	20	5.3	100	200	T-40
ESCR8.0x320	8	320	20	5.3	100	220	T-40



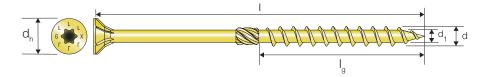


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ESCRC Countersunk Structural Timber Screw



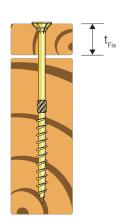
The ESCRC is a countersunk head screw designed to connect two or more timber members together. The countersunk head gives flush fitting while allowing the timber members to close up firmly.



ESCRC Product Dimensions

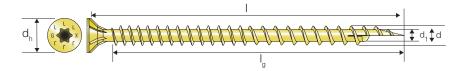
Madel No			Prod	duct Dimension	s [mm]		
Model No.	d	ı	d _h	d ₁	l _g	t _{fix} (Max)	Bit
ESCRC8.0X80	8	80	15	5.3	54	26	T-40
ESCRC8.0X100	8	100	15	5.3	54	46	T-40
ESCRC8.0X120	8	120	15	5.3	54	66	T-40
ESCRC8.0X140	8	140	15	5.3	84	56	T-40
ESCRC8.0X160	8	160	15	5.3	84	76	T-40
ESCRC8.0X180	8	180	15	5.3	100	80	T-40
ESCRC8.0X200	8	200	15	5.3	100	100	T-40
ESCRC8.0X220	8	220	15	5.3	100	120	T-40
ESCRC8.0X240	8	240	15	5.3	100	140	T-40
ESCRC8.0X260	8	260	15	5.3	100	160	T-40
ESCRC8.0X280	8	280	15	5.3	100	180	T-40
ESCRC8.0X300	8	300	15	5.3	100	200	T-40
ESCRC8.0X320	8	320	15	5.3	100	220	T-40





ESCRFTC Fully Threaded Structural Timber Screw

The ESCRFTC is a countersunk head screw designed to connect two or more timber members together. The countersunk head gives flush fitting while allowing the timber members to close up firmly.



ESCRFTC Product Dimensions

Model No.			Product Dir	nensions [mm]		
Model No.	d	ı	d _h	d ₁	l _g	Bit
ESCRFTC8.0x180	8	180	15	5.2	170	T-40
ESCRFTC8.0x200	8	200	15	5.2	190	T-40
ESCRFTC8.0x240	8	240	15	5.2	230	T-40
ESCRFTC8.0x300	8	300	15	5.2	290	T-40
ESCRFTC8.0x400	8	400	15	5.2	390	T-40
ESCRFTC10.0x180	10	180	18.5	6.1	168	T-50
ESCRFTC10.0x220	10	220	18.5	6.1	208	T-50
ESCRFTC10.0x240	10	240	18.5	6.1	228	T-50
ESCRFTC10.0x300	10	300	18.5	6.1	288	T-50
ESCRFTC10.0x350	10	350	18.5	6.1	338	T-50



SDWC Cap Style Fully Threaded Structral Timber Screw



The SDWC Truss screw is tested in accordance with ICC-ES AC233 (screw) and AC13 (wall assembly and roof-to-wall assembly) for uplift and lateral loads between wall plates and vertical wall framing and between the top plate and the roof rafters or trusses. SDWC15450 is recognised for use in chemically treated timber as described in the evaluation report.

Material: Carbon steel

Finish: SDWC15450—E-Coat™;

SDWC15600—Clear Zinc Coating (with Orange Topcoat)

Product and Packaging Information

SDWC15450-KT and SDWC15600-KT contains:

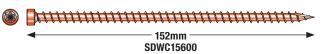
- (50) Strong-Drive® SDWC screws
- (1) Matched-tolerance driver bit

(Part no. BIT30T-2-RC3; also sold separately)

- (1) Metal installation guide tool
- SDWC-GUIDE (for SDWC15600 only; also sold separately) or
- SDWC-GUIDE275 (for SDWC15450 only; also sold separately)









Strong-Drive SDWC TRUSS Screw Specifications

		Thread Length (mm)		Diameter (mm)			Fastener Strength	
Model No.	Fastener Length (mm)		Head	Major	Minor	Bending Yield Strength (MPa)	Tension (kN)	Shear (kN)
SDWC15450	114	108	8.31	5.97	3.86	1345	15.5	10.9
SDWC15600	152	146	0.31	5.97	3.00	1343	13.3	10.9

For the purposes of measuring overall length, fasteners shall be measured from the top of the head to the end of the point. Length of thread includes the point. Bending yield strength is the 5%-offset value based on the minor diameter as determined following ASTM F1575.

Tension and shear properties are average ultimate values. Shear strength is shear through the threads.

Characteristic Single-Shear Lateral Design Values for the Strong-Drive SDWC Truss Screws

	Fastener	Thread	Side Member		Main M	ember	Late	ral Characteristic Design Value, Q _{kL} (N)			
Model No.			Min. Thickness	Grain Min. Thickness Grain Q _{kt.} para		Q _{kL}	Q _{kL} perp				
	Length (mm)	Length (mm)	(mm)	uranı	(mm) Grain	uranı	JD4	JD5	JD4	JD5	
SDWC15450	114	108	38	Face	38	End	_	_	2220	2220	
			2-38	Face	38	Edge	4200	3500	5300	5100	
SDWC15600	152	152 146	38	Face	38	End	_	_	2950	2650	
			2_38	Face	38	End	_		4650	4150	

The Main Member is the part where the fastener tip is embedded; the Side Member is part adjacent to the head.

Minimum penetration into the main member shall be 25mm

The main and side members shall be sawn timber or structural composite timber with the design density or equivalent design density typical of JD4 and JD5 grades.

Screws shall be installed into the side grain of the wood side member with the screw axis at a 90-degree angle to the surface of the member.

Para: Parallel-to-grain loading in the side member and perpendicular-to-grain loading in the main member.

Perp: Perpendicular-to-grain loading in the side member and perpendicular-to-grain loading in the main member, except where the main member is loaded parallel-to-grain.

Characteristic Withdrawal and Pull-Through for the Strong-Drive SDWC Truss Screws

Model No.	Thread Length (mm)	Thread Length (mm)	Main Member		Withdrawal Characteristic Design Value, Q _{kw} (N/mm)		Pull-Through Characteristic Design Value, Q _{kp} (N/mm)	
			Min. Thickness (mm)	Grain	JD4	JD5	JD4	JD5
SDWC15450	114	108	38	Edge	133	84	_	_
			38	End	78	50	96	82
SDWC15600	152	146	38	Face	110	75	108	97
			2-38	Face	118	102	131	105

Withdrawal and pull-through characteristic values are in N/mm of thread penetration into the main member and side member, respectively.

Face and edge installations are at 90 degrees to the grain and end installation is along the grain. Withdrawal and Pull-through loads shall be checked against tension strength in design.

Connection Geometry for Strong-Drive SDWC Truss Screws

		Minimum Distance or Spacing (mm)		
Cor	dition	SDWC15450	SDWC15600	
Edge Distance	Load in any direction	30	30	
	Load Along Grain Toward End	60	60	
End Distance	Load Along Grain Way From End	60	60	
	Loading Across Grain	60	60	
Cassing Datuson Footoners in a Day	Loaded Along Grain	90	90	
Spacing Between Fasteners in a Row	Loaded Across Grain	60	60	

Edge distances, end distances, and spacing of screws shall be sufficient to prevent splitting of the timber or as required in this table, or when applicable, as recommended by the structural composite timber manufacturer, whichever is more restrictive.

Edge and end distances based on AS 1720.1, Table 4.8.

SIMPSON

CSA Structural Connector to Timber Screw

CSA is a self-drilling flat head screw with a type 17 point tip suitable for installing construction connectors to timber structures.

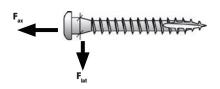


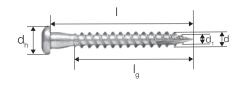
- Flat head.
- Type 17 point.
- Carbon Steel or Stainless Steel.
- 250 screws per box.

CSA Product Dimensions

Model Reference	Product Dimensions [mm]						
Would helefelice	d	1	d _h	d ₁	l _g	Bit	
CSA5.0x40	4.9	40	8.3	3.2	34	T-20	
CSA5.0x40S	4.9	40	8.3	3.2	34	T-20	

Carbon Steel
Stainless Steel





CNA Ring Shank Nail

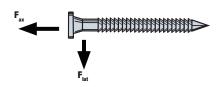
CNA ring shank nail is tested and approved for use with Simpson Strong-Tie joist hangers, brackets, straps and nail plates.

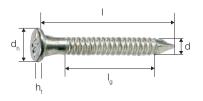
- Annular ring shank.
- Carbon steel for interior applications only.
- Grade 304 Stainless Steel for exterior applications and corrosive environments.

CNA Product Dimensions

	Madal No	Product Dimensions [mm]						
	Model No.	d	l l	d _h	d,	l _g		
	CNA4.0x50	4.0	50	8	4.4	34		
	CNA4.0x60S	4.0	60	8	4.4	44		

Carbon Steel
Stainless Steel





QDBPC50E Construction Connector System



The revolutionary screw connector attachment, QDBPC50E, for installing Simpson Strong-Tie® CE-labelled CSA connector screws. By using QDBPC50E you will achieve a significant time saving of at least 50% due to the fact that no time is wasted on searching for loose screws in a box, installing them with a screwdriver and starting the process all over again. When using the new attachment, a new screw is ready as soon as the first has been installed. There is no waiting or lost screws by using this system.



QDBPC50E Attachment

- Part of the Quik drive range.
- Use with CSA collated screws to install connectors such as angle brackets and joist hangers to timber.
- Suitable for screws 35mm to 50mm long.
- Use with Mandrel code: MANDREL 128E.
- Connects easily with screw gun or Quik drive extension.
- Teflon coated moving parts for a long life.

CNA connector nails are listed as fasteners.

QDBPC50E includes	Model No.	Compatible Screws
Attachment	QDBPC50E	
Mandrel	MANDREL 128E	CSA
Spare Bits	BITLTX20E (x1)	

The CSA connector screw is specifically designed to fasten steel brackets to wood. The smooth shaft under the head fits tightly to the hole in the bracket. This provides a stiff connection with larger cross-resistance than standard screws. Fibre cut tip allows for easyand fast driving. In most load bearing capacity tables for brackets,

CSA screws can replace CNA nails, when used in the same connection detail, as they have greater pullout strength per unit than a CNA nail, and at least the same cross-bearing capacity.

Minimum requirements for spacing and minimum edge and end distances for connector screws CSA5,0x ℓ are the same as for connector nails CNA4,0x ℓ .

Model No.	Length [mm]	Diameter	Qty per Strip	Material	Application	Qty per Pack
CSA5.0X40T	40	5.0	25	Carbon Steel	For fastening connectors to wood.	1,500





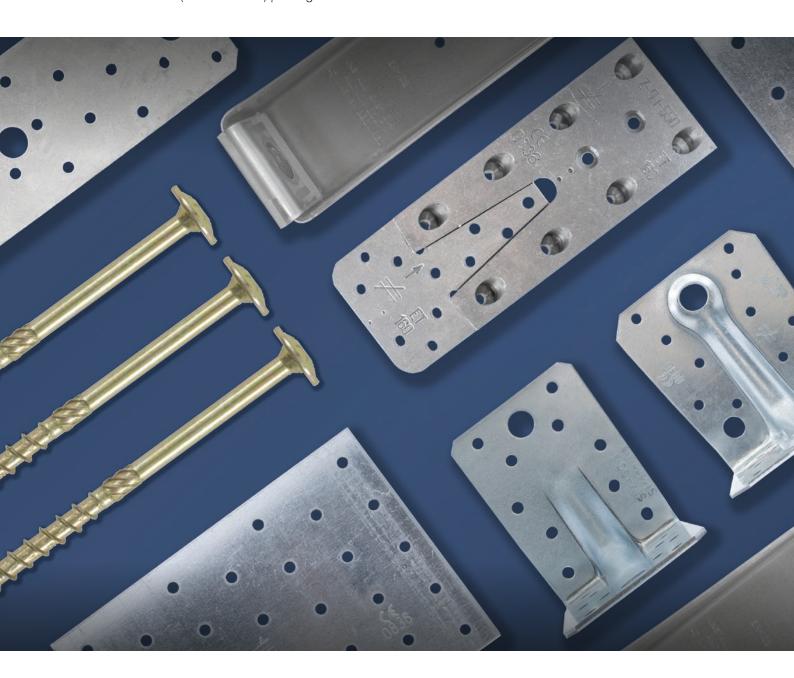


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