

EGCL End Grain Connector

SIMPSON
Strong-Tie®

Suitable for solid timber: EGCL is a two-piece system that provides a high-strength, hidden connection between timber members where the joist header or post is fastened into the end-grain of a carried joist.

As the connector is concealed within the timbers, this method provides 30 minutes fire resistance.

EGCL can be surface mounted or recess fitted.

Ideal for light duty structures.

Benefits:

- Can be pre-installed off-site for rapid assembly
- Provides a discrete connection where aesthetics are the priority
- Light weight aluminium for ease of handling

Material:

- Joist plate: 8 mm aluminium
- Header plate: 8 mm aluminium

Suitable on:

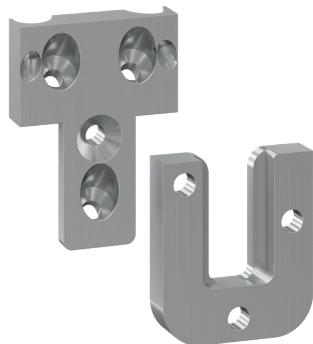
- Solid timber

For use with:

- Timber to timber connections as part of a light duty structure

Installation:

- Mounting connectors EGCL is simplified by the use of a jig available on stock
- The slot can be routed by using a Ø16 mm cutter with Ø30 mm washer



EGCL60



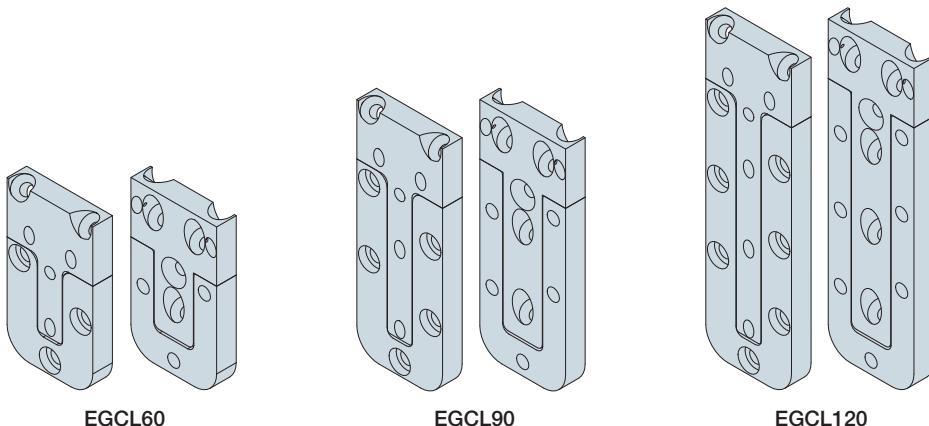
EGCL90



EGCL120

Technical Support Contact your local Simpson Strong-Tie technical support team at any time during the design stage. We can advise the optimal density and thickness combination for the project.

EGCL End Grain Connector



Product Dimensions

References	Product dimensions [mm]						Number of holes		
	A	B	C	D	E	$t_1=t_2$	U-part Ø5	T-part Ø4	
							90°	45°	90°
EGCL60	61	35	48	21	40	8	3	3 + 2	1
EGCL90	89	35	76	21	68	8	5	4 + 2	1
EGCL120	117	35	104	21	96	8	7	5 + 2	1

Except for the two optional uplift screws, fill all screw holes with screws.

To prevent rotation and to absorb uplifting, lateral and axial loads, two optional fully threaded screws are inserted from the joist through the connector into the header.

Product Characteristic Capacities – Timber Beam to Timber Beam

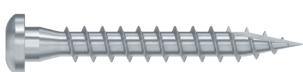
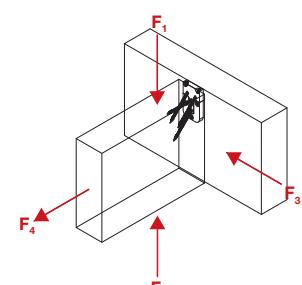
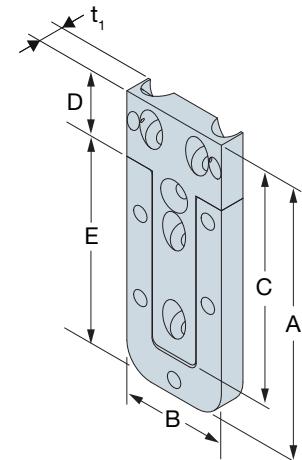
References	Fasteners qty		Characteristic capacities - Timber C24 [kN]					
	Header / post	Joist	Min Joist dimension [mm]		$R_{1,k}$	$R_{2,k}$	$R_{3,k}$	$R_{4,k}$
			CSA 5,0x40	TTUFS 4,0x60	Min Width	Min Height		
EGCL60	3	4 (6)	40	100	5,3	3,1	1,5	2,3
EGCL90	5	5 (7)	40	120	5,9	3,6	1,8	3,1
EGCL120	7	6 (8)	40	140	7,5	4,2	2,2	3,9

The specified values apply to the minimum dimensions of the joist.

For larger cross-sections and different screws, observe the specifications of the respective ETA.

If the force is only in the F_1 direction, the two optional screws from above can be left out.

For further product capacities, please visit strongtie.eu

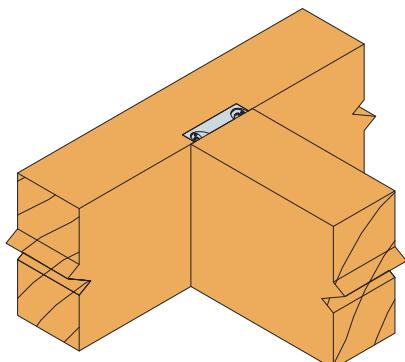


CSA5.0x40
To fasten EGCL into the header / post

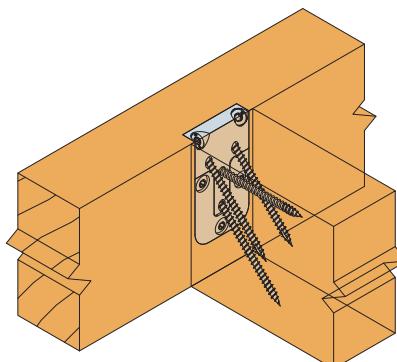
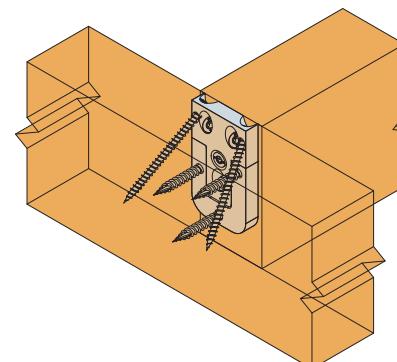
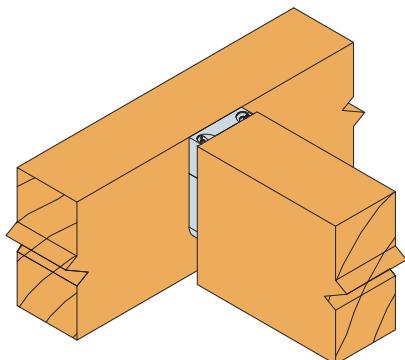


TTUFS5.0x40
To fasten EGCL into the carried joist

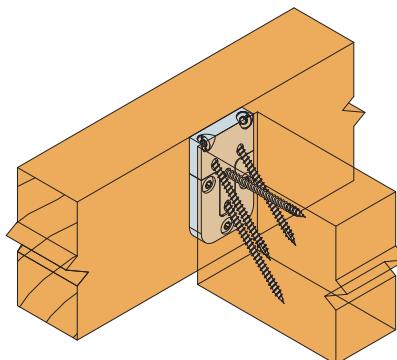
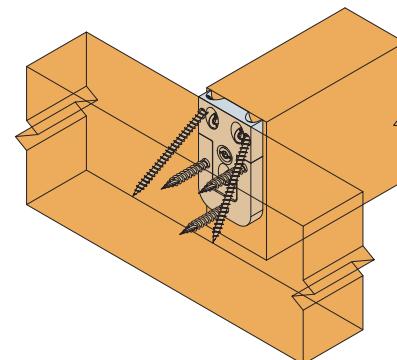
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Recessed installation

Recessed installation
fasteners into carried joistRecessed installation
fasteners into header

Surface installation

Surface installation
fasteners into carried joistSurface installation
fasteners into header

EGCL End Grain Connector



EGCL solid timber post-to-beam connection (surface mounted)



EGCL solid timber joist-to-beam connection recessed fit (routed)
showing fastener configuration

EGCL is intended for smaller timber sizes. For medium duty applications and timber sizes, please refer to the EGCM product range.