

# EGCM End Grain Connector

**SIMPSON**  
**Strong-Tie**®

Suitable for solid timber and Glulam joists:  
EGCM 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.

EGCM can be surface mounted or recess fitted. A routing template is available separately.

Ideal for single and multi-story residential construction projects.

#### Features:

- Can be pre-installed off-site for rapid assembly
- Each component easy to pair due to identical width and height
- Light weight aluminium for ease of handling

#### Material:

- Joist plate: 16 mm aluminium
- Header plate: 16 mm aluminium

#### For use with:

- Timber to timber connections as part of single or multi-storey construction projects

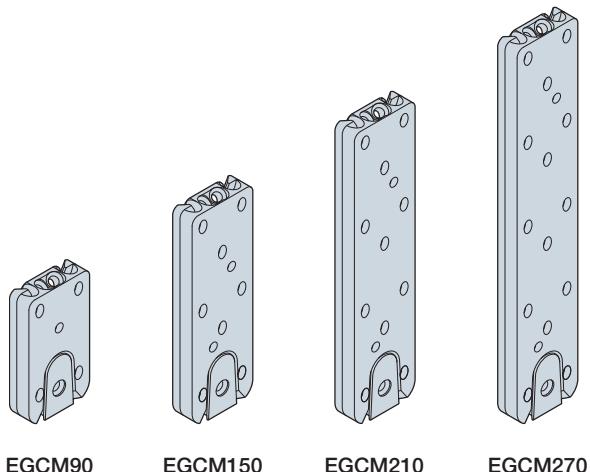
#### Installation:

- Mounting connectors EGCM 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.
- CAUTION: EGCM should not be used for an assembly with a negative slope.



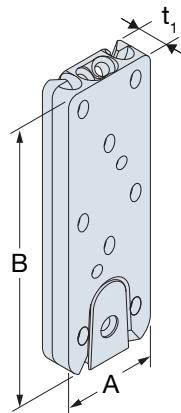
**Technical Support** Contact your local Simpson Strong-Tie technical support team at any time during the design stage. We can advise the optimal density and thickness combination for the project.

## EGCM End Grain Connector



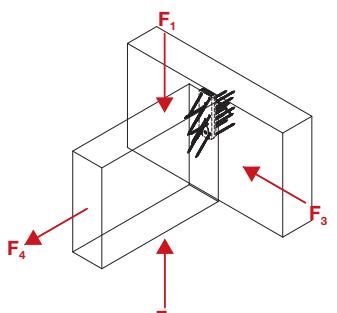
## Product Dimensions

References	Joist dimensions [mm]		Header dimensions [mm]	Product dimensions [mm]			Header holes [mm]	Joist holes [mm]			
	Width [mm]	Post width [mm]		A	B	t					
				Min	Min						
EGCM90	75	125		50	90	16	6	7			
EGCM150	75	125		50	150	16	11	12			
EGCM210	75	125		50	210	16	18	15			
EGCM270	75	125		50	270	16	21	18			



## Product Characteristic Capacities – Timber Beam to Timber Beam

References	Fasteners qty		Characteristic capacities – Timber C24 [kN]											
			CSFT6.0x85						CSFT6.0x110					
			Joist Height [mm]						Joist Height [mm]					
	Header	Joist	Min	Max	R <sub>1,k</sub>	R <sub>2,k</sub>	R <sub>3,k</sub>	R <sub>4,k</sub>	Min	Max	R <sub>1,k</sub>	R <sub>2,k</sub>	R <sub>3,k</sub>	R <sub>4,k</sub>
EGCM90	6	5 (7)	135	180	14.2	6.5	12.7	8.6	150	210	18.3	8.7	9.6	14.0
EGCM150	11	10 (12)	195	270	27.8	6.5	23.7	16.7	210	350	35.6	8.7	18.7	25.9
EGCM210	16	13 (15)	255	360	35.6	6.5	28.6	22.3	270	390	46.0	8.7	24.9	31.4
EGCM270	21	16 (18)	315	450	43.2	6.5	33.0	27.7	330	480	56.2	8.7	31.0	36.4



The quantities in brackets are the quantities of fixings in the supported beam plus the screws to prevent lifting.

The top screws going from the joist par to the header must be installed to block the uplift.

For further product capacities, please visit [strongtie.eu](http://strongtie.eu)

General case:



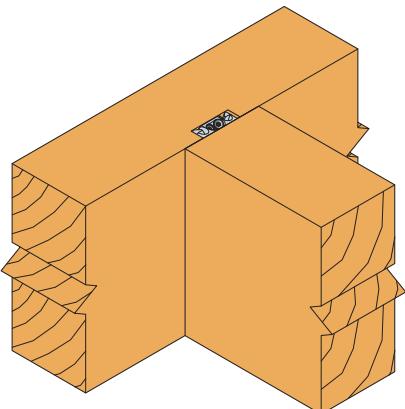
CSFT6.0x85

For header thinner than 80 mm:

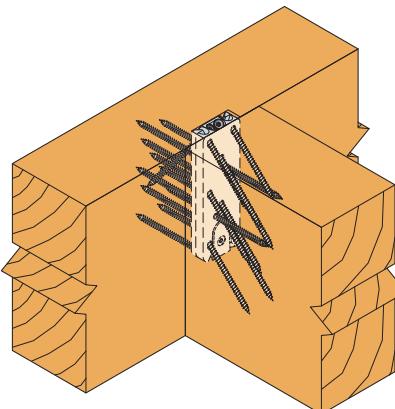


TTUFS5.0x40

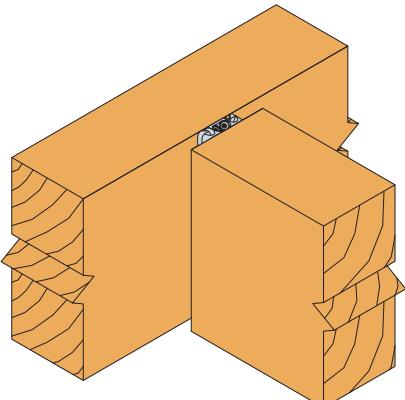
for timberheaders less than 80 mm thick,  
use Ø 5 mm TTUFS screws



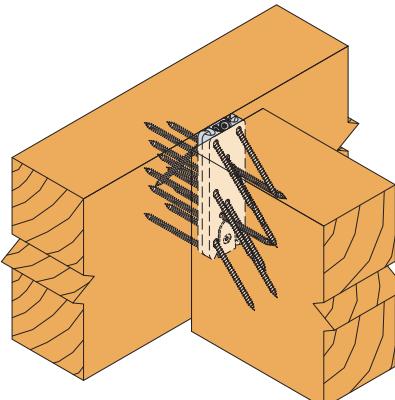
Joist-to-beam connection  
recessed fit (routed)



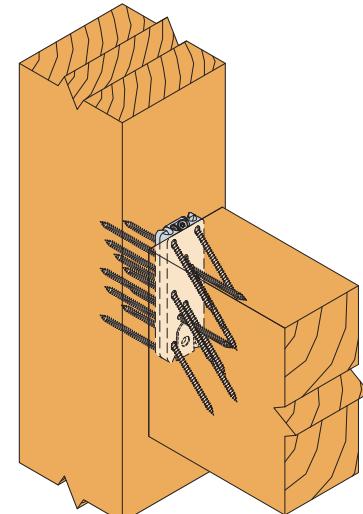
Joist-to-beam connection  
recessed fit (routed) showing fastener  
configuration



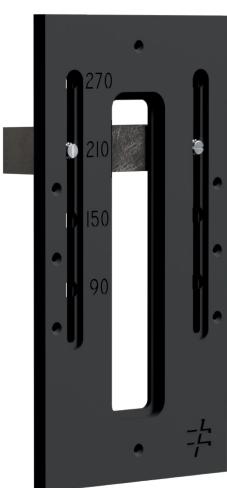
Joist-to-beam connection  
surface mounted



Joist-to-beam connection  
surface mounted showing  
fastener configuration



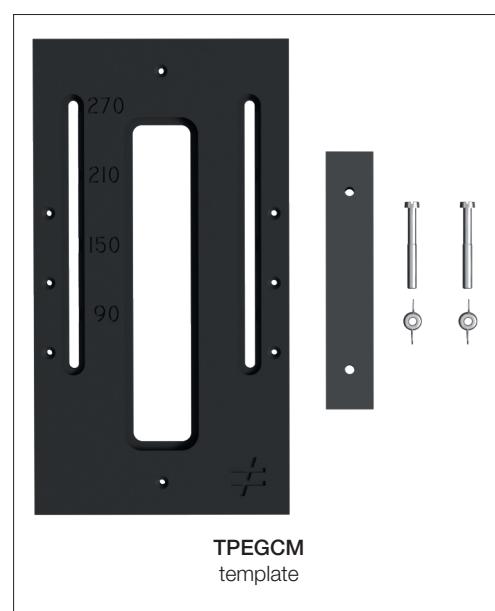
Joist-to-post connection showing  
fastener configuration



TPEGCM Routing template provides a fast and accurate guide to routing the timber for recessed installation of the EGCM.

The template comprises a plastic guide and mounting plate to ensure routing can be carried out with the minimum of fuss.

The TPEGCM can be ordered separately.

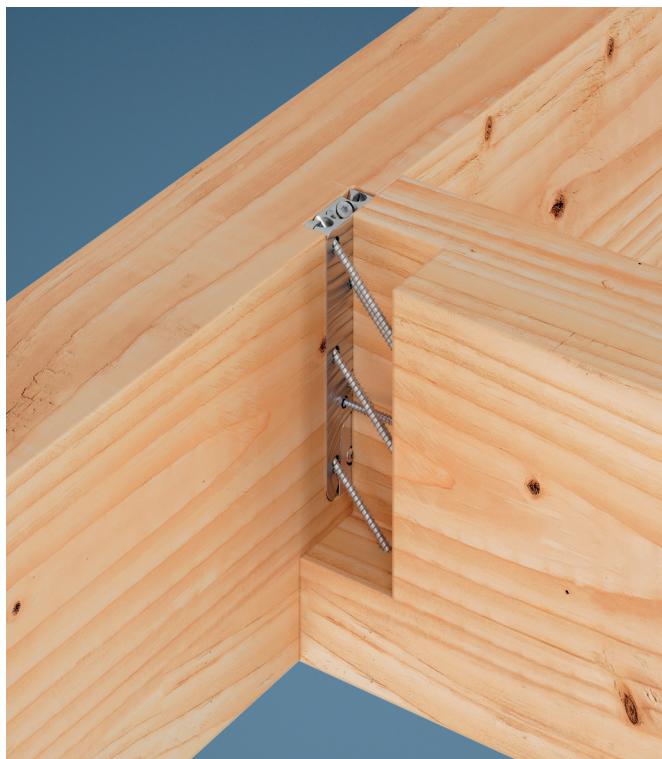




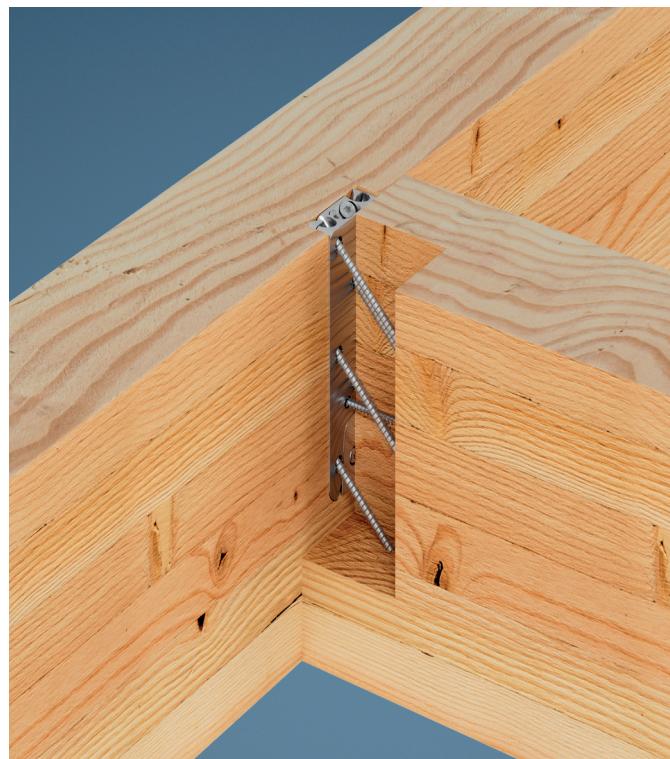
EGCM solid timber post-to-beam connection



EGCM glulam post-to-beam connection



EGCM solid timber beam-to-beam connection



EGCM glulam beam-to-beam connection

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