

Technical Sheet

SIMPSON
Strong-Tie

EGCM End Grain Connector Medium

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.

Features

Material

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

Features

- Concealed connection
- Provides up to 30 mins fire resistance
- Can be routed for flush installation, or surface mounted
- 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

Applications

Suitable on

- Solid timber
- Glulam

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 Ø16mm cutter with Ø30mm washer.

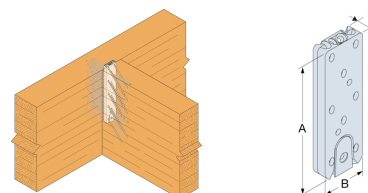
For more information on fitting the EGCM bracket, see the TPEGCM jig instructions.
CAUTION: EGCM should not be used for an assembly with a negative slope.



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Technical Data

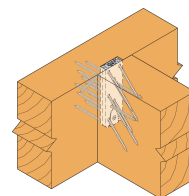
Product dimensions



Reference	konektor rozměry					
	rozměry výrobku[mm]			Header otvory[mm]	nosník otvory[mm]	ostatní
	A[mm]	B[mm]	t[mm]	kulatý	kulatý	hmotnost[kg]
				Ø6.5	Ø6.5	
EGCM90	90	50	16	6	7	0.17
EGCM150	150	50	16	11	12	0.28
EGCM210	210	50	16	18	15	0.4
EGCM270	270	50	16	21	18	0.52

*Depends on CSFT screw length

DE - Product characteristic capacities - Timber beam to timber beam / post



Reference	Hanger únosnost														
	dřevo/dřevo fastening- charakteristické hodnoty in kn													výrobek Characteristic Capacities - dřevo Beam to dřevo Post	
	počet of Fasteners		Characteristic capacities - dřevo C24[kN]												Characteristic capacities - dřevo C24[kN]
	Header	nosník	CSFT6.0x110					CSFT6.0x85					CSFT6.0x110		
	množství	množství	R _{2,k}	R _{3,k} - DE	R _{4,k} - DE	nosník výška[mm]		R _{1,k}	R _{2,k}	R _{3,k} - DE	R _{4,k} - DE	nosník výška[mm]		R _{1,k}	
						Min	Max					Min			Max
EGCM90	6.0	5 (7)	8.7	*	9.6	150	210	14.2	6.5	*	8.6	135	180	18.3	
EGCM150	11.0	10 (12)	8.7	*	18.2 / kmod	210	350	27.8	6.5	*	16.7	195	270	31.6	
EGCM210	16.0	13 (15)	8.7	*	18.2 / kmod	270	390	35.6	6.5	*	18.2 / kmod	255	360	41.1	
EGCM270	21.0	16 (18)	8.7	*	18.2 / kmod	330	480	43.2	6.5	*	18.2 / kmod	315	450	56.2	

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 / post must be installed to block the uplift.

$$\sum \frac{F_{i,d}}{R_{i,d}} \leq 1$$

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Installation

Fasteners

On header, TTUFS Ø5mm according to ETA-21/0670 (for header <80mm) and CSFT Ø6mm screws.

On joist, CSFT Ø6mm screws.

