

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

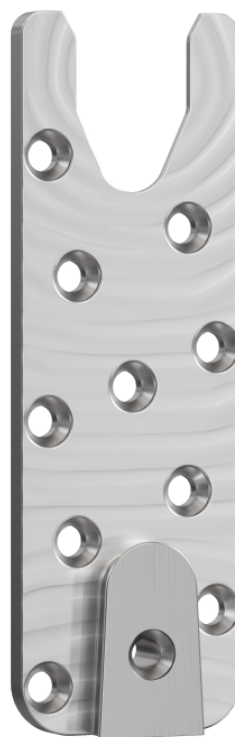
Installation

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.



NEW

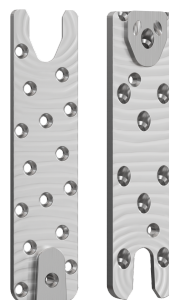
CE

SC 2

R 30

ETA

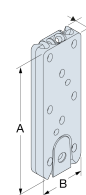
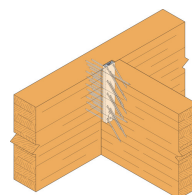
AL



EGCM End Grain Connector Medium

Technical Data

Product dimensions

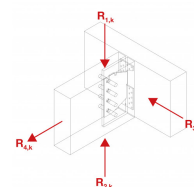
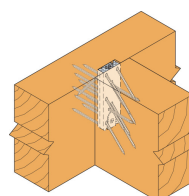


EGCM recess fit onto Glulam timber (cross-section)

Art. nr.	Product dimensions [mm]			Header holes [mm]	Joist holes [mm]	Hmotnost [kg]
	A	B	t	Ø6.5	Ø6.5	
EGCM90	90	50	16	6	7	0.52
EGCM150	150	50	16	11	12	0.17
EGCM210	210	50	16	18	15	0.28
EGCM270	270	50	16	21	18	0.4

*Depends on CSFT screw length

DE - Product characteristic capacities - Timber beam to timber beam



EGCM recess fit onto solid timber (cross-section)

Art. nr.	Product characteristic capacities - Timber beam to Timber beam													
	Fasteners qty		Characteristic capacities - Timber C24 [kN]											
	Header	Joist	CSFT6.0x85						CSFT6.0x110					
			Joist Height [mm]		R _{1,k}	R _{2,k}	R _{3,k} - DE	R _{4,k} - DE	Joist Height [mm]		R _{2,k}	R _{1,k}	R _{3,k} - DE	R _{4,k} - DE
			Min	Max					Min	Max				
EGCM90	6	5 (7)	135	180	14.2	6.5	*	8.6	150	210	8.7	18.3	*	9.6
EGCM150	11	10 (12)	195	270	27.8	6.5	*	16.7	210	350	8.7	35.6	*	18.2 / kmod
EGCM210	16	13 (15)	255	360	35.6	6.5	*	18.2 / kmod	270	390	8.7	46	*	18.2 / kmod
EGCM270	21	16 (18)	315	450	43.2	6.5	*	18.2 / kmod	330	480	8.7	56.2	*	18.2 / kmod

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.

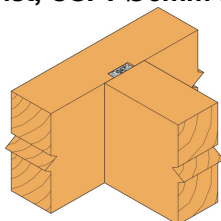
EGCM End Grain Connector Medium

Installation

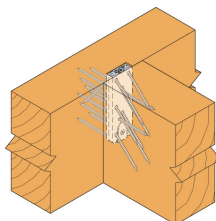
Fasteners

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

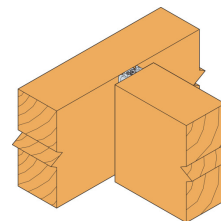
On joist, CSFT Ø6mm screws.



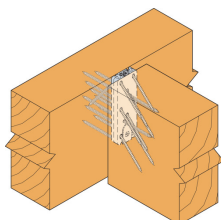
EGCM recess fit onto solid timber



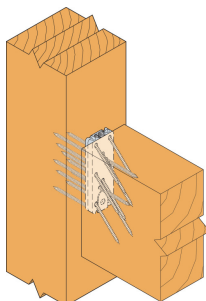
EGCM recess fit onto solid timber (cross-section)



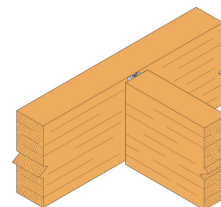
EGCM surface fit onto solid timber



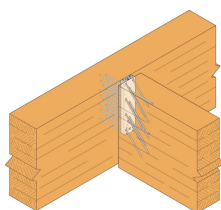
EGCM surface fit onto solid timber (cross-section)



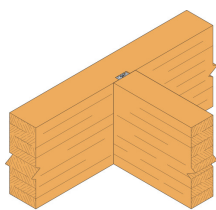
EGCM surface fit onto solid timber post (cross-section)



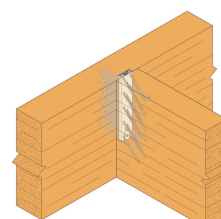
EGCM surface fit onto Glulam timber



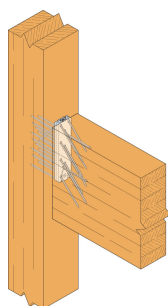
EGCM surface fit onto Glulam timber (cross-section)



EGCM recess fit onto Glulam timber



EGCM recess fit onto Glulam timber (cross-section)



EGCM surface fit onto Glulam post



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