

EGCM — Concealed Beam Hanger

The EGCM concealed beam hanger provides a load-tested beam connection with minimal visible hardware. Interlocking plates can be recessed into the beam or post and lock together to create a secure structural connection with a near-invisible joint.

Features & Benefits

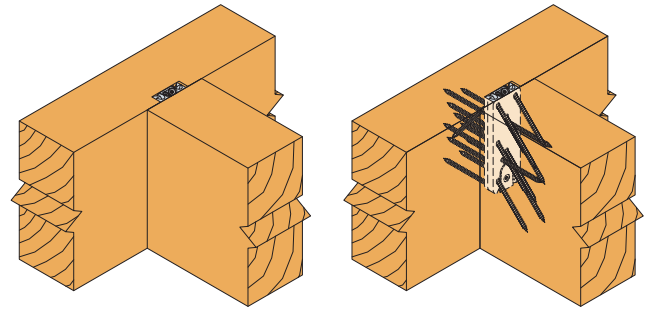
- The EGCM concealed connector comes in two parts: A joist plate and header plate, both parts are attached using the CSFT6.0 screws. No slots or dowel holes are necessary, speeding up installation. Note: If using a 45mm thick Header Beam The TTUFS5.0 x 50mm screws can be used.
- Faster than other time-consuming methods and requires removal of less beam material.
- Four sizes address common beam sizes.
- Header plate can be routed into the supporting beam or post to create a near-invisible joint.
- Concealed connection.

Applications:

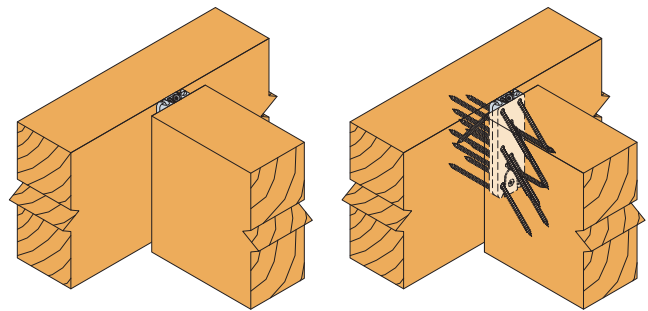
- For supporting solid timber or LVL or Glulam a minimum of 75mm thick.
- Interior use only in wood-to-wood connections.
- Can be used in applications requiring uplift resistance.

Materials:

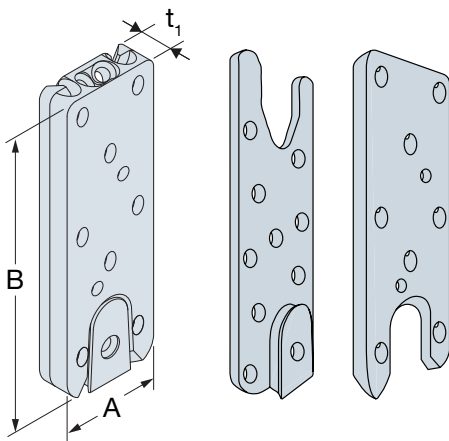
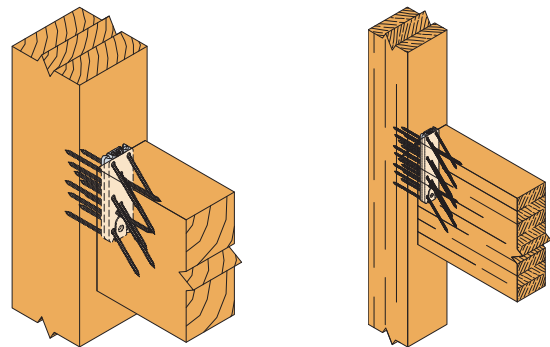
- Structural-grade aluminium, heat-treated for strength, and manufactured to meet specific engineering standards.
- Joist Plate: 10mm/Locking Tab 6mm (overall 16mm).
- Header Plate: 6mm/Locking Tab 10mm (overall 16mm).



EGCM with recessing on the support



EGCM without recessing on the support



EGCM without countersinking on post

Product Information

Model No.	Joist Size (mm)			Product Dimensions (mm)			Weight (kg)	Header Plate Holes (Ø6.5mm)	Joist Plate Holes (Ø6.5mm)
	Width	Height		A	B	t ₁			
		Min	Max						
EGCM90	75	135	180	50	90	16	0.17	6	7
EGCM150	75	195	270	50	150	16	0.28	11	12
EGCM210	75	255	360	50	210	16	0.40	18	15
EGCM270	75	315	450	50	270	16	0.52	21	18

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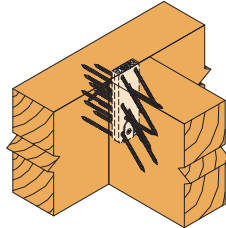
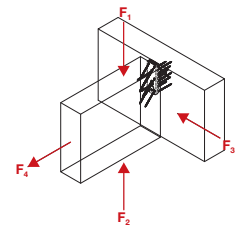
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EGCM — Concealed Beam Hanger

Characteristic Values - Joist on Supporting Beam

Model Number	Fasteners (Qty)		Characteristic Values - Timber JD5 (kN)											
	Beam	Joist ²	CSFT6.0x85						CSFT6.0x110					
			Joist Height [mm]		F ₁	F ₂	F ₃	F ₄	Joist Height (mm)		F ₁	F ₂	F ₃	F ₄
			Min	Max					Min	Max				
EGCM90	6	5 (7)	135	180	9.2	6.5	8.3	5.6	150	210	11.9	8.7	9.1	6.2
EGCM150	11	10 (12)	195	270	18.1	6.5	15.4	10.9	210	350	23.1	8.7	16.8	12.2
EGCM210	16	13 (15)	255	360	23.1	6.5	18.6	14.5	270	390	29.9	8.7	20.4	16.2
EGCM270	21	16 (18)	315	450	28.1	6.5	21.5	18	330	480	36.5	8.7	23.7	20.2

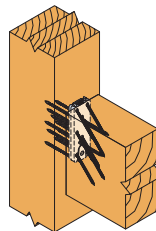
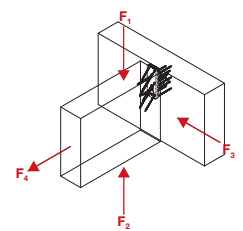
Notes: Minimum Joist/Supporting beam thickness 75mm.



Characteristic Values - Joist on Post

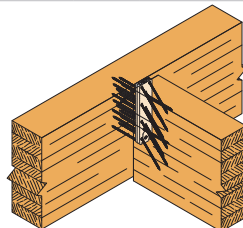
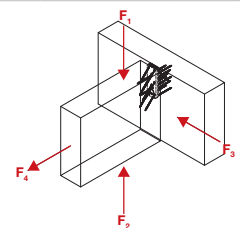
Model Number	Fasteners (Qty)		Characteristic Values - Timber JD5 (kN)											
	Post	Joist ²	CSFT6.0x85						CSFT6.0x110					
			Joist Height [mm]		F ₁	F ₂	F ₃	F ₄	Joist Height [mm]		F ₁	F ₂	F ₃	F ₄
			Min	Max					Min	Max				
EGCM90	6	5 (7)	135	180	9.2	6.5	8.3	5.6	150	210	11.9	8.7	9.1	6.2
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EGCM210	16	13 (15)	255	360	23.1	6.5	18.6	14.5	270	390	29.9	8.7	20.4	16.2
EGCM270	21	16 (18)	315	450	28.1	6.5	21.5	18	330	480	36.5	8.7	23.7	20.2

Notes: Minimum Joist thickness 75mm. Minimum post thickness 90mm



Characteristic Values - Joist on Supporting Ledger (Thickness 45mm)

Model Number	Fasteners (Qty)			Characteristic Values - Timber JD5 (kN)											
	Alt. Fastener Beam	Supporting Beam (45mm)	Joist ²	CSFT6.0x85						CSFT6.0x110					
				Joist Height (mm)		F ₁	F ₂	F ₃	F ₄	Joist Height (mm)		F ₁	F ₂	F ₃	F ₄
				Min	Max					Max	Min				
EGCM90	TTUFS5.0x50	6	5 (7)	135	195	9.2	6.5	2.6	5.6	150	210	9.9	8.7	2.6	6.2
EGCM150	TTUFS5.0x50	11	10 (12)	195	270	18.1	6.5	4.7	10.9	210	350	18.1	8.7	4.7	12.2
EGCM210	TTUFS5.0x50	16	13 (15)	255	360	23.1	6.5	6.9	14.5	270	390	26.4	8.7	6.9	16.2
EGCM270	TTUFS5.0x50	21	16 (18)	315	450	28.1	6.5	9.0	18.0	330	480	34.6	8.7	9	20.2

Note: 50mm long screws will only work with a 45mm ledger if the connector is not rebated into beam.
Minimum Joist width 75mm. Minimum ledger width 45mm.

1 - The tabulated values are characteristic capacities. Design capacities shall be determined by applying the appropriate capacity factor (ϕ) and all relevant modification factors in accordance with AS 1720.1 (Australia) or NZS 3603 (New Zealand).

2 - Fastener quantities include two optional tie-down screws (in brackets). Where the EGCM is designed for gravity loads only and no uplift actions occur, the tie-down screws are not required.

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