

ETB Concealed Beam Hanger

The ETB concealed connector comes in two parts. The first is pocketed in the header timber and fixed with nails, while the second part is fitted to the end of the beam with screws. No slots or dowel holes are necessary, speeding up production.
Note: Order nails and screws separately.

Features

Material

- Joist plate: 10mm aluminium.
- Header plate: 6mm aluminium.

Benefits

- Concealed connection.
- Multiple applications.

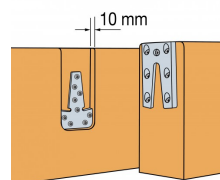
Applications

Header member

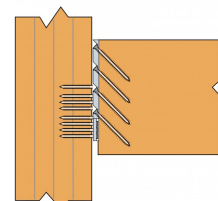
Glulam joist and headers.

For Use With

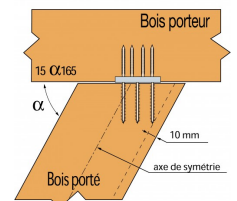
Wood to wood connections only.



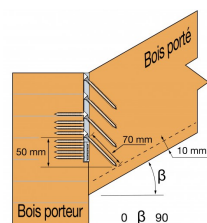
Countersunk within the supported member.



Face fix installation.



Skewed installation.

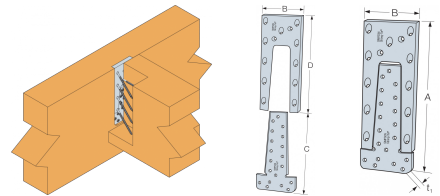


Positive slope installation.

ETB Concealed Beam Hanger

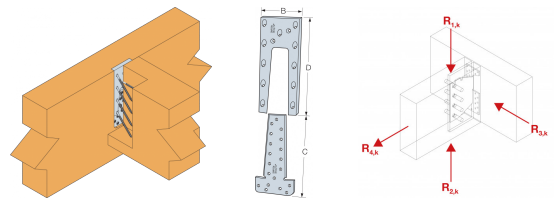
Technical Data

Product Dimensions



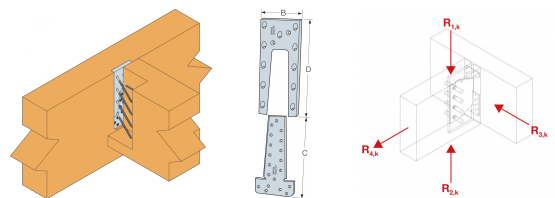
References	Joist Size [mm]			Product Dimensions [mm]						Header holes		Joist holes		Box Quantity
	Width		Height	A	B	C	D	t ₁	t ₂	Ø5	Ø5.4			
	Min	Min	Max.											
ETB90-B	70	115	150	90	60	58	69	6	10	6	4	25		
ETB120-B	70	150	200	121	60	85	95	6	10	9	6	25		
ETB160-B	70	185	250	166	60	95	130	6	10	11	8	25		
ETB190-B	90	220	300	195	75	138	165	6	10	19	11	25		
ETB230-B	90	255	350	230	75	138	200	6	10	19	14	25		

Wood/wood fastening- Characteristic values in kn



References	Wood/wood fastening- Characteristic values in kn			
	Number of Fasteners			Characteristic Capacities - Timber C24 [kN]
	Header		Joist	
	Qty	Type	Qty	R _{1,k} FTETL5,0x80
ETB90-B	6	CNA4,0x40	4	9.6
ETB120-B	9	CNA4,0x40	6	13.8
ETB160-B	11	CNA4,0x40	8	17.8
ETB190-B	19	CNA4,0x40	11	23.8
ETB230-B	19	CNA4,0x40	14	29.5

Product characteristic capacities - Timber beam to timber post



References	Product characteristic capacities - Timber beam to timber post			
	Number of Fasteners			Product characteristic capacities - Timber C24 [kN]
	Header		Joist	
	Qty	Type	Qty	R _{1,k} FTETL5,0x80
ETB90-B	6	CNA4,0x40	4	9.6
ETB120-B	9	CNA4,0x40	6	13.8
ETB160-B	11	CNA4,0x40	8	17.8
ETB190-B	12	CNA4,0x40	9	19.8
ETB230-B	12	CNA4,0x40	10	21.8

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Installation

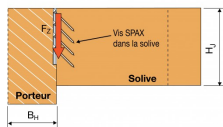
Fasteners

To achieve stated loads, nails and screws used must comply with the ETA-04/0013.

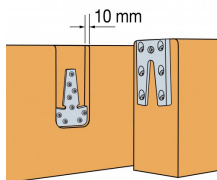
Installation

Installation of ETB is simplified by the use of a jig.
The pocket installation can be routed by using a Ø16 mm cutter with Ø30 mm washer.

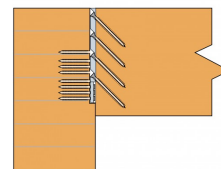
CAUTION: ETB bracket should not be used for an assembly with a negative slope



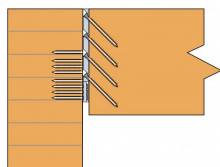
installed cross section.



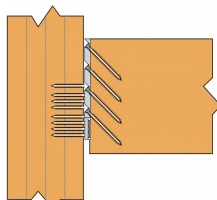
Countersunk within the supported member.



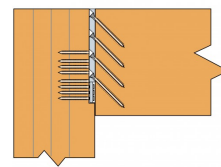
Face fix installation.



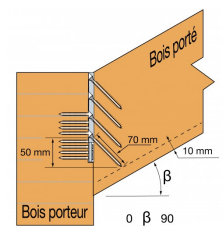
Face fix installation.



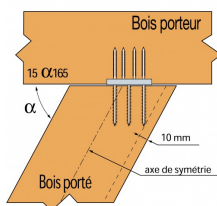
Face fix installation.



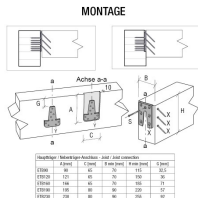
Face fix installation.



Positive slope installation.



Skewed installation.



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Hanger**



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