Technical Sheet

ETB
Concealed Beam Hanger

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



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

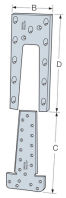
Wood to wood connections only.

Technical Sheet

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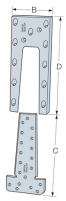
Technical Data

Product Dimensions



Reference	Connector Dimensions														
	Other				Timber size[mm]			Product Dimensions[mm]						Header holes[mm]	Joist holes[mm]
	Tun / DB nr.	NOB nr.	Qty per Box	Weight[kg]	Width	Height[mm]		A[mm]	B[mm]	C[mm]	D[mm]	t1[mm]	t2[mm]	Round	Round
					Min[mm]	Min[mm]	Max. [mm]							Ø5	Ø5.4
ETB90-B	5688246	42277162	25.0	0.1	70	115	150	90	60	58	69	6	10	6	4
ETB120-B	5804558	23383334	25.0	0.14	70	150	200	121	60	85	95	6	10	9	6
ETB160-B	5804559	23383342	25.0	0.19	70	185	250	166	60	95	130	6	10	11	8
ETB190-B	5804560	23383359	25.0	0.27	90	220	300	195	75	138	165	6	10	19	11
ETB230-B	5804561	23383367	25.0	0.34	90	255	350	230	75	138	200	6	10	19	14

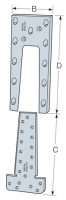
Wood/wood fastening- Characteristic values in kn



Reference	Hanger capacity						
	Wood/wood fastening- Characteristic values in kn						
	Number of Fasteners			Characteristic capacities - Timber C24[kN]			
	Header		Joist	$R_{1,k}$			
	Qty	Type	Qty	TTUFS5,0x70	TTUFS5,0x100	FTETL5,0x80	CSFT5,0x70
ETB90-B	6.0	CNA4,0x40	4	5.9	8.9	9.6	11.1
ETB120-B	9.0	CNA4,0x40	6	8.5	12.8	13.8	16.7
ETB160-B	11.0	CNA4,0x40	8	11	16.5	17.8	20.4
ETB190-B	19.0	CNA4,0x40	11	14.7	22	23.8	29.7
ETB230-B	19.0	CNA4,0x40	14	18.2	27.4	29.5	35.2

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Product characteristic capacities - Timber beam to timber post

Reference	Hanger capacity						
	Product Characteristic Capacities - Timber Beam to Timber Post						
	Number of Fasteners			Product characteristic capacities - Timber C24[kN]			
	Header		Joist	$R_{1,k}$			
	Qty	Type	Qty	TTUFS5,0x70	TTUFS5,0x100	FTETL5,0x80	CSFT5,0x70
ETB90-B	6.0	CNA4,0x40	4	5.9	8.9	9.6	11.1
ETB120-B	9.0	CNA4,0x40	6	8.5	12.8	13.8	16.7
ETB160-B	11.0	CNA4,0x40	8	11	16.5	17.8	20.4
ETB190-B	12.0	CNA4,0x40	9	12.3	18.4	19.8	22.2
ETB230-B	12.0	CNA4,0x40	10	13.5	20.2	21.8	22.2

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Installation

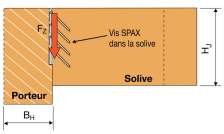
Fasteners

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

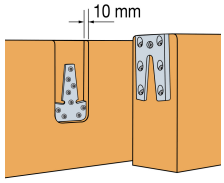
Installation

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.

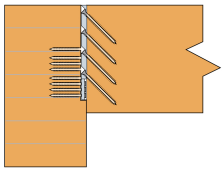
CAUTION: ETB bracket should not be used for an assembly with a negative slope



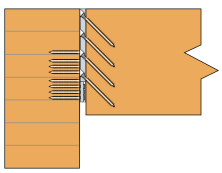
insalled cross section.



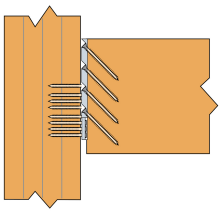
Countersunk within the supported member.



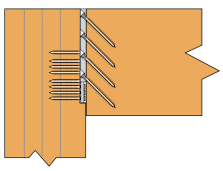
Face fix installation.



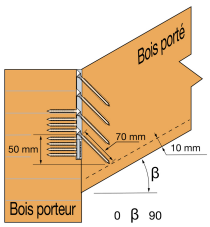
Face fix installation.



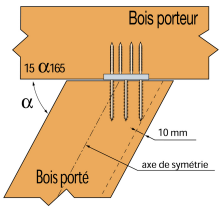
Face fix installation.



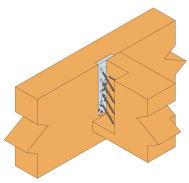
Face fix installation.

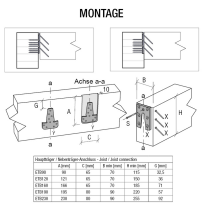


Positive slope installation.



Skewed installation.





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