

Technical data sheet

SIMPSON**Strong-Tie**

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.

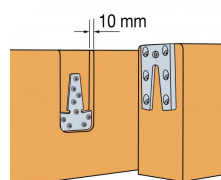
Applications

Header member

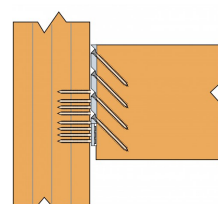
Glulam joist and headers.

For Use With

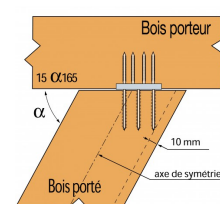
Wood to wood connections only.



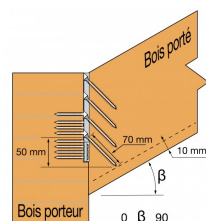
Countersunk within the supported member.



Face fix installation.



Skewed installation.

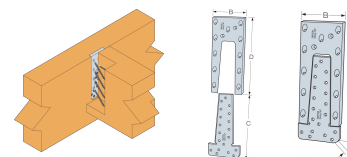


Positive slope installation.

ETB Concealed Beam Hanger

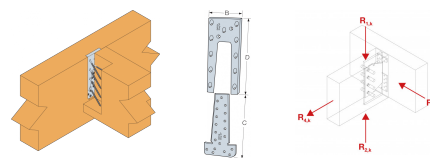
Technical Data

Product Dimensions



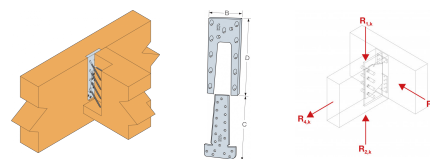
References	Joist Size [mm]			Product Dimensions [mm]						Header holes	Joist holes
	Width	Height		A	B	C	D	t ₁	t ₂	Ø5	Ø5.4
		Min	Max.								
ETB90-B	70	115	150	90	60	58	69	6	10	6	4
ETB120-B	70	150	200	121	60	85	95	6	10	9	6
ETB160-B	70	185	250	166	60	95	130	6	10	11	8
ETB190-B	90	220	300	195	75	138	165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

Wood/wood fastening- Characteristic values in kn



References	Wood/wood fastening- Characteristic values in kn			
	Number of Fasteners		Characteristic Capacities - Timber C24 [kN]	
	Header		R _{1,k}	
	Qty	Type	Qty	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		R _{1,k}	
	Qty	Type	Qty	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

Installation

Fasteners

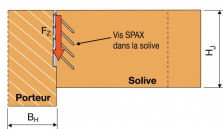
To achieve stated loads, nails and screws used must comply with the ETA-04/0013.

Installation

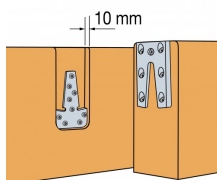
Installation of ETB is simplified by the use of a jig.

The pocket installation can be routed by using a Ø16 mm cutter with Ø30 mm washer.

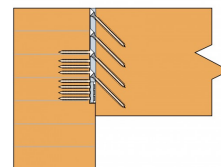
CAUTION: ETB bracket should not be used for an assembly with a negative slope



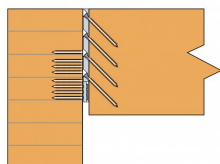
insalled cross section.



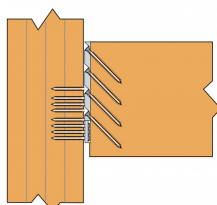
Countersunk within the supported member.



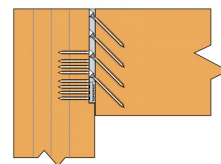
Face fix installation.



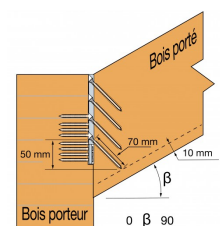
Face fix installation.



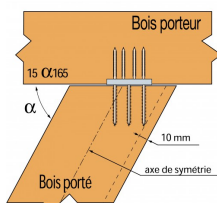
Face fix installation.



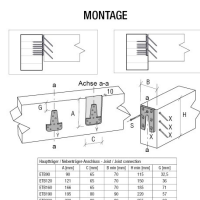
Face fix installation.



Positive slope installation.



Skewed installation.



Group/age	1st year	2nd year	3rd year	4th year	5th year
1st year	80	65	70	115	32.5
2nd year	125	85	70	95	30
3rd year	160	65	70	115	32.5
4th year	185	80	90	220	52
5th year	200	100	100	100	100

ETB

Concealed Beam Hanger

Winchester Road Cardinal Point Tamworth Staffordshire B78
3HG
tel: +44 1827 255600
fax: +44 1827 255616

Copyright by Simpson Strong-Tie®
Information presented on this document is the exclusive property of Simpson Strong-Tie®
It is valid only when associated with products supplied by Simpson Strong-Tie®

ETB
**Concealed Beam
Hanger**



www.strongtie.co.uk

SIMPSON

Strong-Tie

2024-05-03