

## Technical data sheet

### ETB Concealed Beam Hanger

**SIMPSON****Strong-Tie**

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.

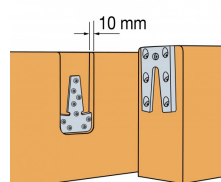
## Applications

### Header member

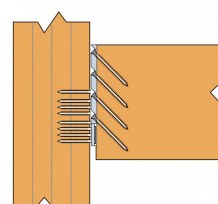
**Glulam joist and headers.**

### For Use With

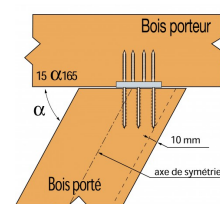
**Wood to wood connections only.**



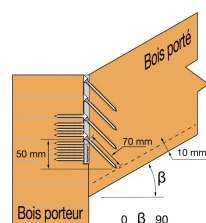
*Countersunk within the supported member.*



*Face fix installation.*



*Skewed installation.*



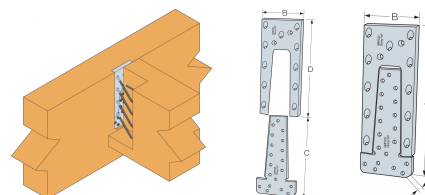
*Positive slope installation.*

ETB

Concealed Beam Hanger

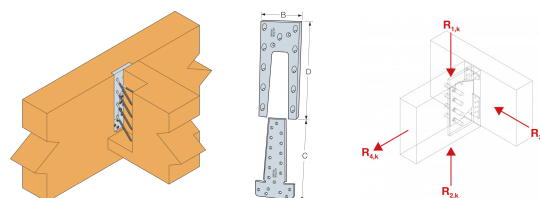
## Technical Data

### Product Dimensions



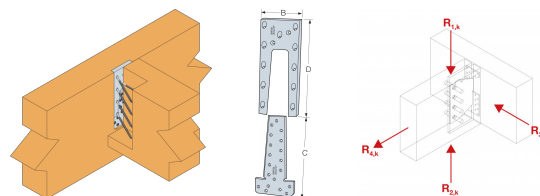
References	Tun / DB nr.	NOB nr.	Joist Size [mm]			Product Dimensions [mm]						Header holes	Joist holes	Box Quantity	Weight [kg]
			Width		Height	A	B	C	D	t <sub>1</sub>	t <sub>2</sub>	Ø5	Ø5.4		
			Min	Min	Max.										
ETB90-B	5688246	42277162	70	115	150	90	60	58	69	6	10	6	4	25	0.1
ETB120-B	5804558	23383334	70	150	200	121	60	85	95	6	10	9	6	25	0.14
ETB160-B	5804559	23383342	70	185	250	166	60	95	130	6	10	11	8	25	0.19
ETB190-B	5804560	23383359	90	220	300	195	75	138	165	6	10	19	11	25	0.27
ETB230-B	5804561	23383367	90	255	350	230	75	138	200	6	10	19	14	25	0.34

### 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	R <sub>1,k</sub>			
	Qty	Type	Qty	TTUFS5,0x70	TTUFS5,0x100	FTETL5,0x80	CSFT5,0x70
ETB90-B	6	CNA4,0x40	4	5.9	8.9	9.6	11.1
ETB120-B	9	CNA4,0x40	6	8.5	12.8	13.8	16.7
ETB160-B	11	CNA4,0x40	8	11	16.5	17.8	20.4
ETB190-B	19	CNA4,0x40	11	14.7	22	23.8	29.7
ETB230-B	19	CNA4,0x40	14	18.2	27.4	29.5	35.2

### 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	R <sub>1,k</sub>			
	Qty	Type	Qty	TTUFS5,0x70	TTUFS5,0x100	FTETL5,0x80	CSFT5,0x70
ETB90-B	6	CNA4,0x40	4	5.9	8.9	9.6	11.1
ETB120-B	9	CNA4,0x40	6	8.5	12.8	13.8	16.7
ETB160-B	11	CNA4,0x40	8	11	16.5	17.8	20.4
ETB190-B	12	CNA4,0x40	9	12.3	18.4	19.8	22.2
ETB230-B	12	CNA4,0x40	10	13.5	20.2	21.8	22.2

## Installation

## Fasteners

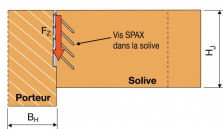
**To achieve stated loads, nails and screws used must comply with the ETA-04/0013.**

## Installation

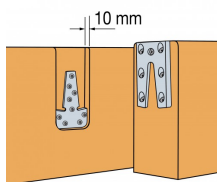
**Installation of ETB is simplified by the use of a jig.**

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

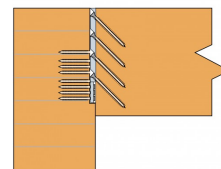
**CAUTION: ETB bracket should not be used for an assembly with a negative slope**



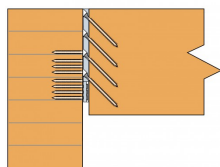
*insalled cross section.*



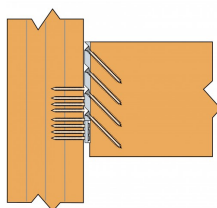
*Countersunk within the supported member.*



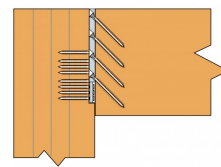
*Face fix installation.*



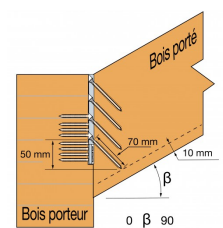
*Face fix installation.*



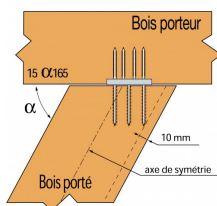
*Face fix installation.*



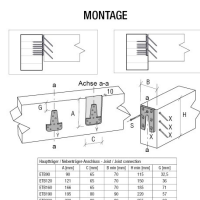
*Face fix installation.*



*Positive slope installation.*



*Skewed installation.*



Group/age	Unaffected	Affected	Unaffected	Affected	Unaffected
	0 years	1 year	2 years	3 years	4 years
Control	80	85	90	115	125
20-30	125	85	90	95	80
30-40	100	85	90	105	75
40-50	105	80	90	120	75
50-60	95	85	90	115	75

ETB

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