

# Technical data sheet

**SIMPSON**

**Strong-Tie**

ET

## Skewed 45° Hanger (right and left)

*The ET is used for supporting skewed timber joists from timber members. This range is tested and standardised with a 45° skew angle left or right.*

### Features

#### Material

- Pre-galvanised mild steel

#### Benefits

- Install carried members at 45° skew left or right
- Fix to solid sawn timber

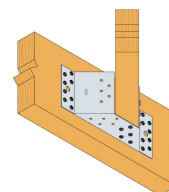
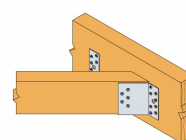
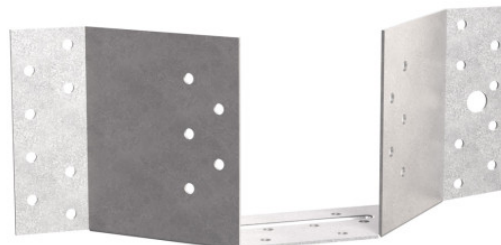
### Applications

#### Suitable On

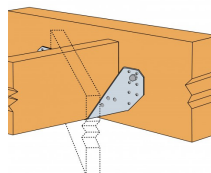
- **Supporting member:** solid wood, engineered timber (e.g. LVL, truss, glulam), concrete, steel
- **Supported member:** solid wood

#### Applications

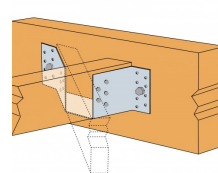
- Timber to Timber



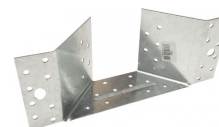
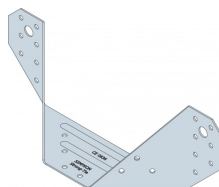
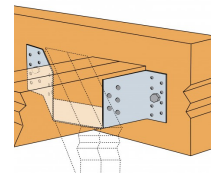
Skew 45° Left or Right



ET248



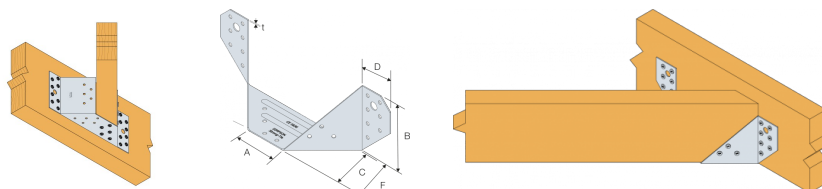
ET260 - Timber Installation ET301 - Timber Installation



## ET Skewed 45° Hanger (right and left)

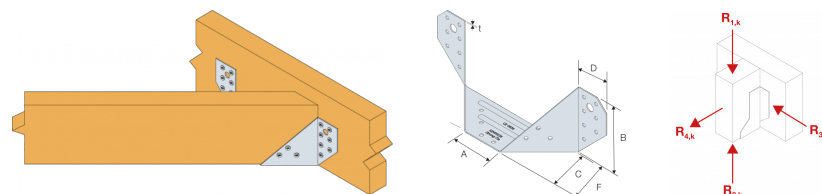
### Technical Data

#### Product Dimensions



References	Joist Size [mm]			Product Dimensions [mm]						Header holes		Joist holes	Box Quantity	Weight [kg]
	Width	Height		A	B	C	D	F	t	Ø5	Ø11	Ø5		
		Min	Max.											
ET248	38	97	145	59	92	65	189	46	1.5	14	2	6	30	0.27
ET260	47	97	145	67	95	55	177	35	1.5	16	2	10	30	0.33
ET301	2x38	97	145	108	95	55	218	35	1.5	16	2	16	30	0.34

#### Wood/wood fastening- Characteristic values in kn



References	Characteristic capacities - Timber to timber - Full nailing			
	Number of Fasteners		Product characteristic capacities - Timber C24 [kN]	Safe Working Loads [kN]
	Header	Joist	$R_{1,k}$	$R_{1,SWL,LongTerm}$
	Qty	Qty	CNA4,0x35	C24 Header CNA4,0x35
ET248	14	6	8.7	3.6
ET260	16	10	10.5	4.4
ET301	16	16	11.2	4.7

Use a LS30 Skewable Angle for extra stability if the joist height exceeds 195mm

#### Product characteristic capacities - Timber beam to timber beam - with SSH screws

References	Product capacities - Timber to timber - with SSH screws				
	Fasteners				Product characteristic capacities - Timber C24 [kN]
	Header		Joist		$R_{1,k}$
	Qty	Type	Qty	Type	
ET260	-	-	-	-	-

## ET Skewed 45° Hanger (right and left)

### Installation

#### Fasteners on header

##### Wood substrate:

- CNA annular ring-shank nails dia. 4.0 x 35 mm

##### Steel substrate:

- Bolts dia. 12 mm (bolt diameter cannot be more than 2 mm smaller than the drill hole diameter)

##### Concrete substrate:

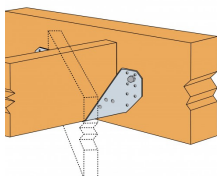
- *Mechanical anchor:* M10 x FM-753 - Length to be confirmed by Engineer
- *Chemical anchor:* AT-HP resin + LMAS M10 Rod - Length to be confirmed by Engineer

### Installation

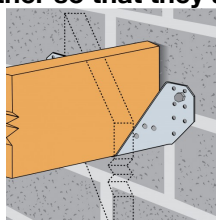
Use all specified fasteners. See General Notes.

Verify that the header can take the required fasteners specified in the table.

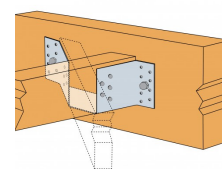
Multi-ply joists must be connected together so that they act as one single element.



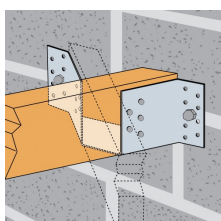
ET248



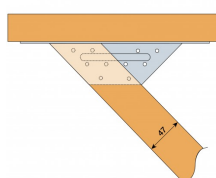
ET248



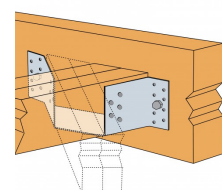
ET260 - Timber Installation



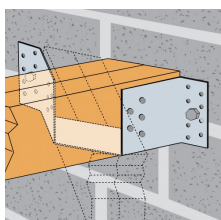
ET260 - Masonry Installation



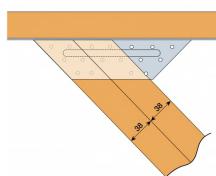
ET260 - Plan View



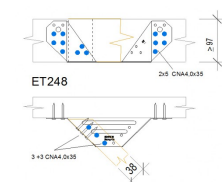
ET301 - Timber Installation



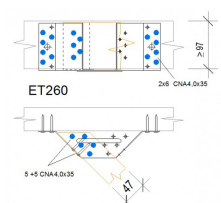
ET301 - Masonry Installation



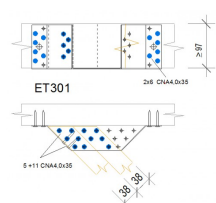
ET301 - Plan View



ET248



ET260



ET301

ET

**Skewed 45° Hanger (right and left)**

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®

ET

**Skewed 45° Hanger (right and left)**



[www.strongtie.co.uk](http://www.strongtie.co.uk)