

# Technical data sheet



## ES Nail Plate Angle Bracket

*Simple angle bracket which is very versatile, used for timber to timber connections.*

### Features

#### Material

- Pre-galvanised mild steel.

#### Benefits

- Available in various width.

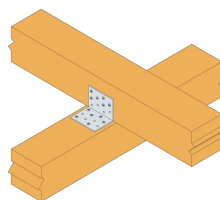
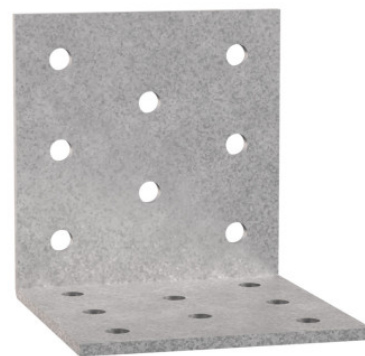
### Applications

#### Header member

- Wood to wood connections.

#### Scope

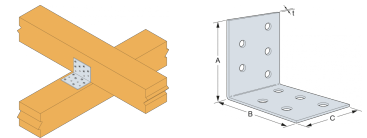
- To strengthen existing timber assemblies.



ES  
Nail Plate Angle Bracket

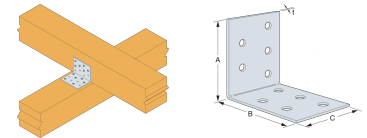
## Technical Data

### Product Dimensions



References	Product Dimensions [mm]				Fasteners	
	A	B	C	t	Holes Flange A	Holes Flange B
					Ø5	Ø5
ES10/40C50	62.5	62.5	40	2.5	5	5
ES11/60	82.5	82.5	60	2.5	11	11

### Characteristic Values



References	Simplified product capacities - Timber to timber – Full nailing					
	Fasteners		Characteristic Capacities - Timber C24 - 2 Angle Brackets per Connection [kN]			
	Flange A	Flange B	$R_{1,k}^*$		$R_{2,k} = R_{3,k}^*$	
	Qty	Qty	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
ES10/40C50	3	3	2.7	3.1	2.7	3.2
ES11/60	8	6	3.6	4.9	7.3	9.8

\* The published characteristic capacity is based on short term load duration and service class 2 according to EC5 (EN 1995) –  $k_{mod} = 0.9$ . For other load duration and service class, please refer to the ETA to get more accurate capacities.

To obtain the resistance values for a single bracket, the values in the above table should be divided by two, provided that the supported beam is locked in rotation. Please consult our ETA-06/0106 if the beam is free to rotate.

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## Installation

### Fasteners

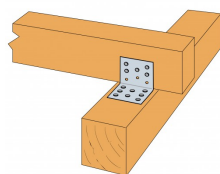
**Ø 5.0mm holes.**

**Wood:**

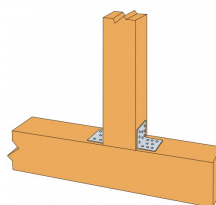
- CNA Ø 4.0 mm nail.
- CSA Ø 5.0 mm screw.

### Installation

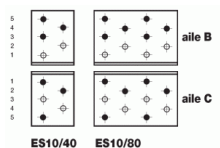
1. Approach the element to be fixed next to the support,
2. Fix the element with nails. It can also be screwed on using suitable screws,,
3. If the support is made of timber, the bracket is also nailed or screwed onto it.



Timber to timber connection

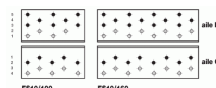


column/beam connection



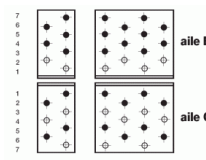
ES10/40 ES10/80

Nail pattern



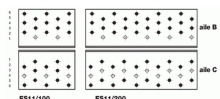
ES10/100 ES10/160

Nail pattern



ES11/40 ES11/80

Nail pattern



ES11/100 ES11/200

Nail pattern

