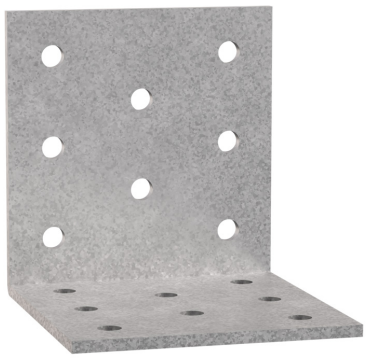
Technical Sheet

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

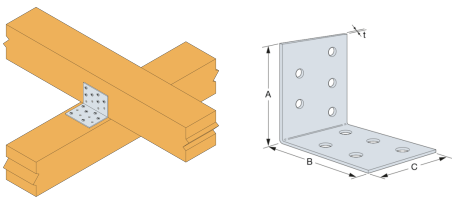
- To strengthen existing timber assemblies.

Technical Sheet

ES
Nail Plate Angle Bracket

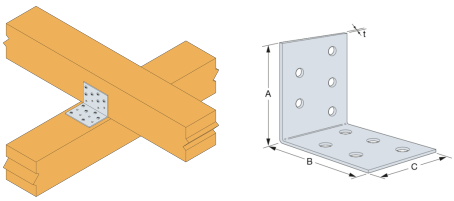
Technical Data

Product Dimensions



Reference	Connector Dimensions						
	Product Dimensions[mm]				Joist[mm]	Flange B[mm]	Other
	A[mm]	B[mm]	C[mm]	Thickness[mm]	Round Ø5[mm]	Round Ø5[mm]	Weight[kg]
ES10/40	62.5	62.5	40	2.5	5	5	0.09
ES10/40C50	62.5	62.5	40	2.5	5	5	0.09
ES11/60	82.5	82.5	60	2.5	11	11	0.18
ES11/200	82.5	82.5	200	2.5	30	30	0.59

Characteristic Values



Reference	Angle bracket capacity					
	Simplified product capacities - Timber to timber – Beam to beam - Full nailing					
	Number of Fasteners		Characteristic Capacities - Timber C24 - 2 Angle Brackets per Connection[kN]			
	Joist	Flange B	$R_{1,k}$		$R_{2,k}=R_{3,k}$	
	Qty	Qty	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
ES10/40	3.0	3.0	2.2	2.8	2.2	2.9
ES10/40C50	3.0	3.0	2.2	2.8	2.2	2.9
ES11/60	8.0	6.0	3.6	4.9	7.3	9.8
ES11/200	25.0	20.0	7.6	13.3	34.3	45.7

* 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.

Installation

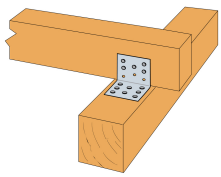
Fasteners

Ø 5.0mm holes.
Wood:

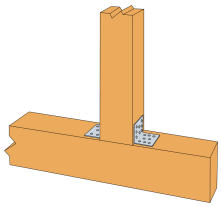
- CNA Ø 4.0 mm nail.
- CSA Ø 5.0 mm screw.

Installation

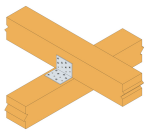
1. Approach the element to be fixed next to the support,
2. Fix the element wih nails. It can also be screwed on using suitable screws,,
3. If the support is made of timber, the bracket is also nailed or screwed onto it.

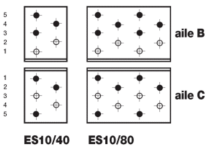


Timber to timber connection

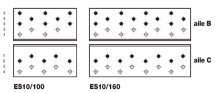


column/beam connection

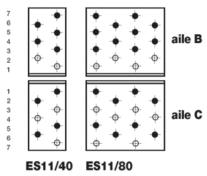




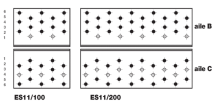
Nail pattern



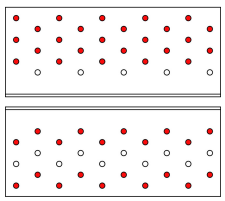
Nail pattern



Nail pattern



Nail pattern



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