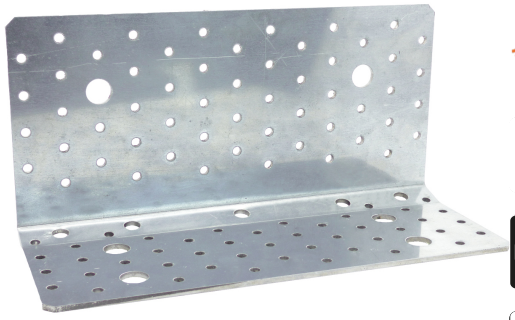
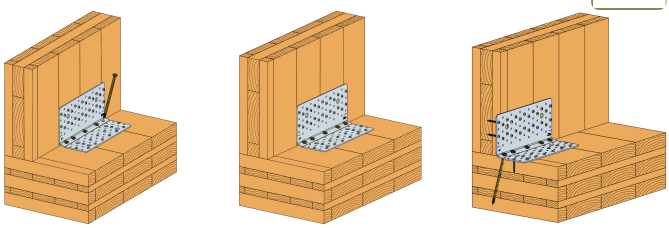
Technical Sheet

AB255HD

Reinforced Angle Bracket for CLT

The AB255HD angle bracket is developped for CLT construction. Flexible, it is designed for both shear and vertical loading. With skewed full threaded screws, it enables very high uplift capacities and it can be hidden under concrete screed.







Features

Material

- Galvanized steel S250GD + Z275 according to EN 10346
- Thickness 3 mm

Benefits

- Ideal for use in CLT buildings,
- Great versatility: can be installed on wooden support and concrete support,
- High performance for horizontal (F_2 / F_3) and vertical (F_1) loads directions.

Applications

Suitable On

- **Supporting member:** solid wood, glulam, concrete, steel...
- **Supported member:** solid wood, glulam...

Scope

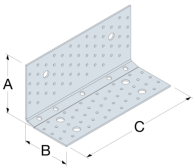
- Solid panels,
- Cross laminated panel (CLT).

Technical Sheet

AB255HD
Reinforced Angle Bracket for CLT

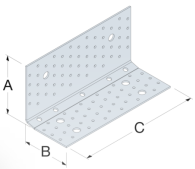
Technical Data

Product dimensions



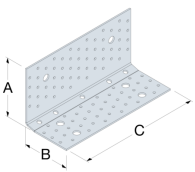
Reference	Connector Dimensions												
	Other				Product Dimensions[mm]				Joist[mm]		Flange B[mm]		
	Tun / DB nr.	NOB nr.	Qty per Box	Weight[kg]	A[mm]	B[mm]	C[mm]	Thickness[mm]	Round		Round		
									Ø5[mm]	Ø14[mm]	Ø5[mm]	Ø9	Ø14[mm]
AB255HD	2112421	57294576	10.0	1.2	123	100	255	3	56	2	41	5	4

Product characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 1



Product characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 1
See full table online ➡️

Simplified characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 1



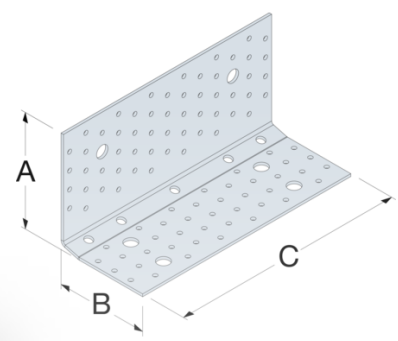
Reference
AB255HD

- 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.
- The value in the table above can be used if the panel can't rotate.
- The $R_{1,k}$ values are valid for any quantity of CNA/CSA fasteners on flange B.
- Values with other ESCRFTC length are availables in ETA.

Technical Sheet

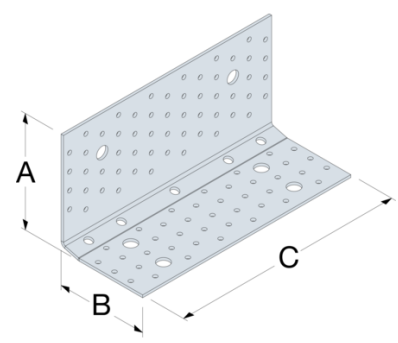
AB255HD
Reinforced Angle Bracket for CLT

Product characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 2



Product characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 2
See full table online ➡️

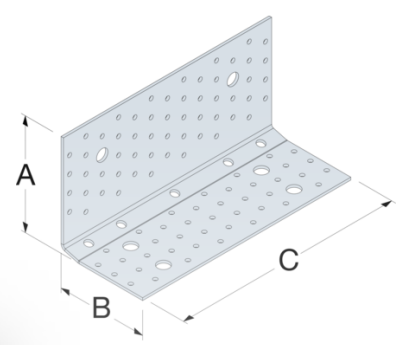
Simplified characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 2



Reference
AB255HD

- 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.
- The value in the table above can be used if the panel can't rotate.
- The $R_{1,k}$ values are valid for any quantity of CNA/CSA fasteners on flange B.
- Values with other ESCRFTC length are availables in ETA.

Product characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 3

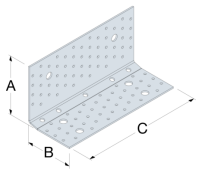


Product characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 3
See full table online ➡️

Technical Sheet

AB255HD
Reinforced Angle Bracket for CLT

Simplified characteristic capacities - Timber to timber - 1 angle bracket - Nailing pattern 3



Reference
AB255HD

- 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.
- The value in the table above can be used if the panel can't rotate.
- The $R_{1,k}$ values are valid for any quantity of CNA/CSA fasteners on flange B.
- Values with other ESCRFTC length are availables in ETA.

Installation

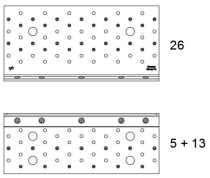
Fasteners

On wood :

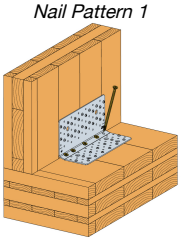
- CNA annular ring shank nails
- CSA screws
- Refer to performance tables for relevant sizes

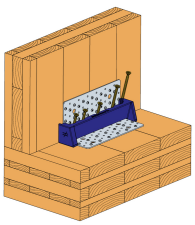
On concrete :

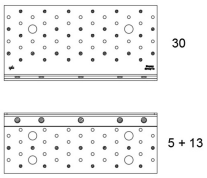
- *Chemical anchor:* AT-HP resin + LMAS M12-150/35 threaded rod.



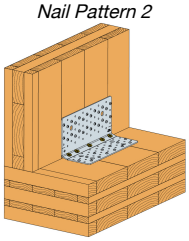
Nail Pattern 1

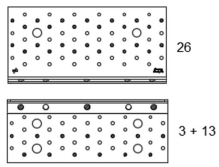




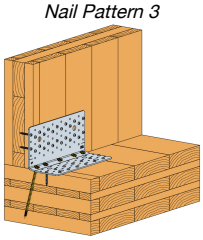


Nail Pattern 2





Nail Pattern 3



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