

Technical data sheet

SIMPSON

Strong-Tie

AB255SSH

Heavy Duty Angle Bracket for CLT

The AB255SSH angle bracket has been developed specifically for CLT construction. It is designed for both shear and vertical loading. Installed with large SSH connector screws and skewed screws, it enables high capacities and fast installation.

Features

Material

- Pre-galvanised mild steel.
- S250 GD + Z275 according to EN 10346

Benefits

- Perfect for CLT building,
- Very fast installation
- Can be hidden in concrete screed

Applications

Suitable On

- **Supporting member:** solid wood, glued-laminated wood, CLT, etc.
- **Supported member:** solid wood, composite lumber, glued-laminated wood, CLT

When to Use

- Solid timber panels,
- CLT panels.

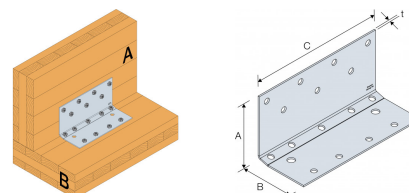


AB255SSH

Heavy Duty Angle Bracket for CLT

Technical Data

Product dimension



References	Product dimensions [mm]				Holes flange A	Holes flange B		Box Quantity
	A	B	C	t	Ø11 [mm]	Ø11 [mm]	Ø14 [mm]	
AB255SSH	123	100	255	3	7	9	2	10

Simplified Product characteristic capacities - Timber to timber - 1 angle bracket - Full nailing

References	Product capacities - Timber to timber - Full nail														
	Fasteners				Simplified Characteristic Capacities - Timber C24										
	Flange A		Flange B		$R_{1,k}$					$R_{2,k} = R_{3,k}$					
	Qty	Type	Qty	Type	10.0x40	10.0x50	10.0x100	10.0x120	10.0x160	10.0x40	10.0x50	10.0x100	10.0x120	10.0x160	10.0x200
AB255SSH	7	SSH10.0xL	9	SSH10.0xL	8.3	19.1	26.1	42.6	56.2	17.4	24.7	35	42.6	48.5	10.0

The published characteristic capacity is based on short term load duration and service class 2 according to EC5. For other load duration and service class, please refer to the above tables or the ETA. The value in the above table can be used if the panel can't rotate.

Simplified Product characteristic capacities - Timber to timber - 1 angle bracket - Partial nailing

References	Product capacities - Timber to timber - Partial nail														
	Fasteners				Simplified Characteristic capacities - Timber C24										
	Flange A		Flange B		$R_{1,k}$					$R_{2,k} = R_{3,k}$					
	Qty	Type	Qty	Type	10.0x40	10.0x50	10.0x100	10.0x120	10.0x160	10.0x40	10.0x50	10.0x100	10.0x120	10.0x160	10.0x200
AB255SSH	4	SSH10.0xL	5	SSH10.0xL	3.9	10.7	15.1	25.4	25.1	10.8	15.4	21.8	26.5	30.1	8.0

The published characteristic capacity is based on short term load duration and service class 2 according to EC5. For other load duration and service class, please refer to the above tables or the ETA. The value in the above table can be used if the panel can't rotate.

AB255SSH

Heavy Duty Angle Bracket for CLT

Installation

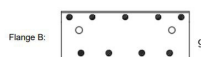
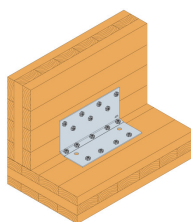
Fasteners

On timber:

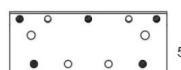
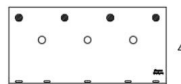
- SSH10.0xℓ (various length allowed, depending on the requested capacity)

Installation

- Start with installing the horizontal and vertical SSH screws first, then install the skewed screws at an approximate 70° angle



Full nailing - Nailpattern 1



Partial nailing

