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 (F₂ / F₃) and vertical (F₁) loads directions.

Applications

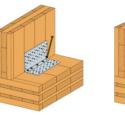
Suitable On

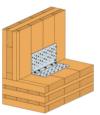
- **Supporting member:** solid wood, glulam, concrete, steel...
- Supported member: solid wood, glulam...

Scope

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















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Technical Data

Product dimensions





References		Product dimensi	ons [mm]		Hole	Holes flange B			
TIGIGI GILOGS	Α	В	С	t	Ø5	Ø14	Ø5	Ø9	Ø14
AB255HD	123	100	255	3	56	2	41	5	4

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





References		Simplified product capacities - Timber to timber – Nail pattern 1												
	Fasteners						Simplified characteristic capacities - Timber C24 - 1 angle bracket per connection							
	F	lange A	Flange B			R _{1.k}		$R_{2,k} = R_{3,k}$		R _{4.k}		R _{5.l}		
	Qty	Type	Qty	Type	Qty	Type	CNA4.0x60	CSA5.0x50	CNA4.0x60	CSA5.0x50	CNA4.0x60	CSA5.0x50	CNA4.0x60	
AB255HD	26	CNA/CSA	5	ESCRFTC8.0x140	13	CNA/CSA	51	51	45.7	46	15.1	15.1	10.2	

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

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





		Simplified product capacities - Timber to timber – Nail pattern 2												
References	Fasteners						Simplified characteristic capacities - Timber C24 - 1 angle bracket per connection							
neielelices	F	lange A	Flange B			R _{1.k}		$R_{2,k} = R_{3,k}$		R _{4.k}		R _{5.l}		
	Qty	Туре	Qty	Type	Qty	Туре	CNA4.0x60	CSA5.0x50	CNA4.0x60	CSA5.0x50	CNA4.0x60	CSA5.0x50	CNA4.0x60	
AB255HD	30	CNA/CSA	5	ESCRFTC8.0x200	13	CNA/CSA	62.2	62.2	49.7	53.5	15.1	15.1	10.2	

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

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Reinforced Angle Bracket for CLT



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





References		Simplified product capacities - Timber to timber – Nail pattern 3												
				Fasteners			Simplified characteristic capacities - Timber C24 - 1 angle bracket per connection							
	F	lange A	Flange B			R _{1.k}		$R_{2,k} = R_{3,k}$		R _{4.k}		R _{5.}		
	Qty	Type	Qty	Type	Qty	Туре	CNA4.0x60	CSA5.0x50	CNA4.0x60	CNA5.0x50	CNA4.0x60	CSA5.0x50	CNA4.0x60	
AB255HD	26	CNA/CSA	3	ESCRFTC8.0x200	13	CNA/CSA	46.8	46.8	32.4	43.4	15.1	15.1	10.2	

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

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Installation

Fasteners

On wood:

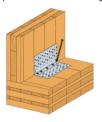
- CNA annular ring shank nails
- CSA screws
- Refer to performance tables for relevant sizes

On concrete:

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

Installation

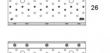
- Install the CNA nails or CSA screws first, then set the ESCRFTC8.0 full threaded screws at an approximate 70° angle. (A jig is recommanded for skewed screw installation SSJ jig is available)
- The possible screwing/nailing pattern are displayed below:



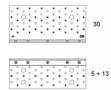




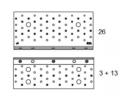




Nail Pattern 1



Nail Pattern 2



Nail Pattern 3

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