

Technical data sheet

SIMPSON

Strong-Tie

ABCLT

Low Profile Angle bracket for CLT

The ABCLT is an low profile angle bracket dedicated to CLT application. It takes high shear loads in a small height allowing it to be hidden in the flooring layers. It can be used for CLT to CLT connection but also CLT to Concrete Application.

Features

Material

- Pre-galvanised mild steel.
- S250GD + Z275 according to EN 10346

Benefits

- Perfect for CLT building
- Versatile: can be used on timber and concrete support
- Superior performance for forces in horizontal (F2/F3) and vertical directions (F1)
- Low Profile

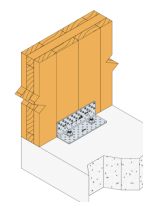
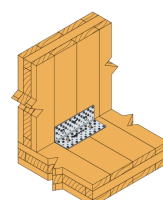
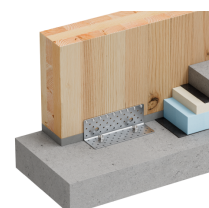
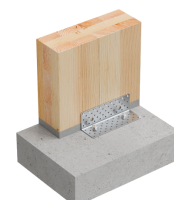
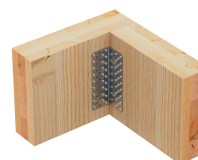
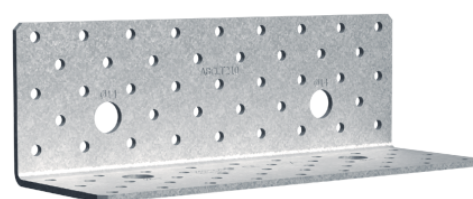
Applications

Suitable On

- Supporting member: CLT, concrete, steel, etc.
- Supported member: CLT.

Where to Use

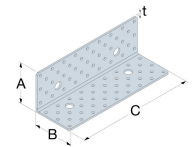
- CLT panels.



ABCLT Low Profile Angle bracket for CLT

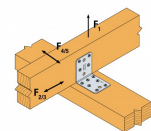
Technical Data

Dimensions



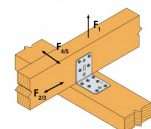
References	Product dimensions [mm]				Holes flange A		Holes flange B		Weight [kg]
	A	B	C	t	Ø5 [mm]	Ø14 [mm]	Ø5 [mm]	Ø14 [mm]	
ABCLT210	69	69	205	3	43	2	43	2	0.587

Product characteristic capacities - CLT to CLT - 1 angle bracket - Nailing pattern 1



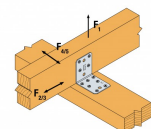
References	Product capacities - CLT to CLT - Nailing Pattern 1											
	Fasteners		Characteristic capacities - Timber CLT - 1 angle brackets per connection [kN]									
	Flange A	Flange B	$R_{1,k}$									
	Qty	Qty	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CSA5.0x35	CSA5.0x40	CSA5.0x50	CNA4.0x35	CNA4.0x40	CNA4.0x50
ABCLT210	26 (17)	24	5.1	6.2	8.2	10.3	17.7	20.7	26.9	30.4	33.9	40.6

Product characteristic capacities - CLT to CLT - 1 angle bracket - Nailing pattern 1 with SIT



References	Product capacities - CLT to CLT - Nailing Pattern 1 with SIT											
	Fasteners		Characteristic capacities - Timber CLT - 1 angle brackets per connection [kN]									
	Flange A	Flange B	$R_{1,k}$									
	Qty	Qty	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CSA5.0x35	CSA5.0x40	CSA5.0x50	CNA4.0x35	CNA4.0x40	CNA4.0x50
ABCLT210	26 (17)	24	4.3	5.3	7	8.7	15	17.6	22.7	23.5	26.2	31.4

Product characteristic capacities - CLT to CLT - 1 angle bracket - Nailing pattern 2



References	Product capacities - CLT to CLT - Nailing Pattern 2											
	Fasteners		Characteristic capacities - Timber CLT - 1 angle brackets per connection [kN]									
	Flange A	Flange B	$R_{1,k}$									
	Qty	Qty	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CSA5.0x35	CSA5.0x40	CSA5.0x50	CNA4.0x35	CNA4.0x40	CNA4.0x50
ABCLT210	18 (9)	18	4.4	5.3	7.1	8.9	15.2	17.8	23	21.8	24.2	29.1

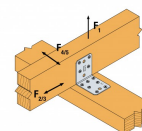
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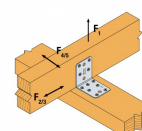
ABCLT

Low Profile Angle bracket for CLT



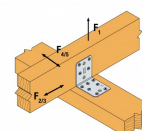
Product characteristic capacities - CLT to CLT - 1 angle bracket - Nailing pattern 3 with SIT

References	Product capacities - CLT to CLT - Nailing Pattern 3 with SIT											
	Fasteners		Characteristic capacities - Timber CLT - 1 angle brackets per connection [kN]									
	Flange A	Flange B	$R_{1,k}$									
	Qty	Qty	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CSA5.0x35	CSA5.0x40	CSA5.0x50	CNA4.0x35	CNA4.0x40	CNA4.0x50
ABCLT210	17	24	5.9	7.2	9.5	11.9	20.5	23.9	31	19.5	21.7	26



Simplified characteristic capacities - CLT to rigid support - 1 angle bracket - Nailing pattern 4

References	Product capacities - CLT to Concrete - Nailing Pattern 4													
	Fasteners				Characteristic capacities - Timber CLT - 1 angle brackets per connection [kN]									
	Flange A		Flange B		$R_{1,k}$									
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CSA5.0x35	CSA5.0x40	CSA5.0x50	CNA4.0x35	CNA4.0x40	CNA4.0x50
ABCLT210	9	CNA/CSA	2	M12	-	-	-	-	16.3	18.5	22	9.8	10.9	13.1



Simplified characteristic capacities - CLT to rigid support - 1 angle bracket - Nailing pattern 5

References	Product capacities - CLT to Concrete - Nailing Pattern 5													
	Fasteners				Characteristic capacities - Timber CLT - 1 angle brackets per connection [kN]									
	Flange A		Flange B		$R_{1,k}$									
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CSA5.0x35	CSA5.0x40	CSA5.0x50	CNA4.0x35	CNA4.0x40	CNA4.0x50
ABCLT210	26 (17)	CNA/CSA	2	M12	20.6	23.8	29.8	33.5	min(47.9;32.0/kmod)	32.0/kmod	32.0/kmod	30.4	33.5	36.6

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Installation

Fasteners

On CLT:

- CNA nails and CSA screws

On concrete:

- Mechanical anchor: FM 753 evo M12
- Chemical anchor: AT-HP resin + LMAS M12-150/35 threaded rod

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