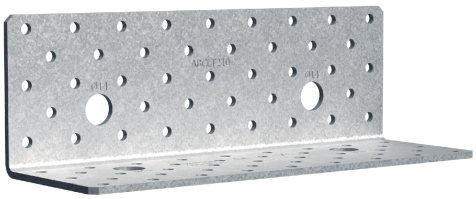
Technical Sheet

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.

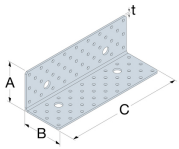


Technical Sheet

ABCLT
Low Profile Angle bracket for CLT

Technical Data

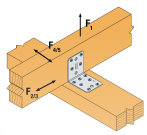
Dimensions



Reference	Connector Dimensions								
	Product Dimensions[mm]				Joist[mm]		Flange B[mm]		Other
					Round		Round		
	A[mm]	B[mm]	C[mm]	Thickness[mm]	Ø5[mm]	Ø14[mm]	Ø5[mm]	Ø14[mm]	Weight[kg]
ABCLT210	69	69	210	3	41	2	41	2	0.587

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





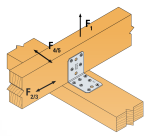
Product characteristic capacities - CLT to CLT - 1 angle bracket - Nailing pattern 1
See full table online ➡

Reference | Angle bracket capacity | ities - CLT to CLT - Faste | CLT - 1 angle brackets | R2,k=R3,k

CNA4.0x35 | CNA4.0x40 | CNA4.0x50 | CNA4.0x60 | CSA5.0x35 | CSA5.0x40 | CSA5.0x50 | CNA4.0x35 | CNA4.0x40 | CNA4.0x50 | CNA4.0x60 | CSA5

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





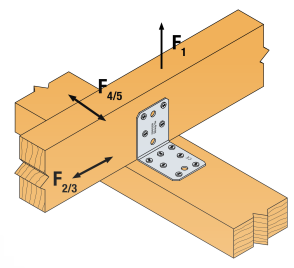
Product characteristic capacities - CLT to CLT - 1 angle bracket - Nailing pattern 1 with SIT
See full table online ➡

Reference | SIT | [kN] | R1,k

CNA4.0x35 | CNA4.0x40 | CNA4.0x50 | CNA4.0x60 | CSA5.0x35 | CSA5.0x40 | CSA5.0x50 | CNA4.0x35 | CNA4.0x40 | CNA4.0x50 | CNA4.0x60 | CSA5

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





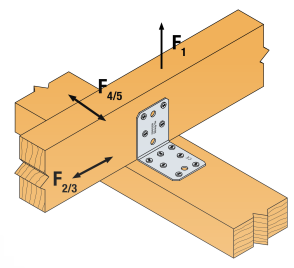
Reference | Number of Fasteners | Joist | Flange B | Qty | Qty | CNA4.0x35[kN] | CNA4.0x40[kN] | CNA4.0x50[kN] | CNA4.0x60[kN] | CSA5.0x35[kN] | CSA5.0x40[kN] | CSA5.0x50[kN] | CNA4.0x35[k

...cket capacity
... to CLT - Fastening Patte...
...mber CLT - 1 angle brac...

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

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



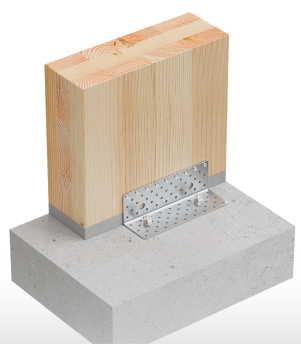


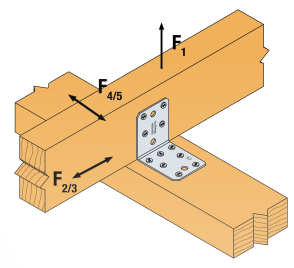
Reference | CNA4.0x35[kN] | CNA4.0x40[kN] | CNA4.0x50[kN] | CNA4.0x60[kN] | CSA5.0x35[kN] | CSA5.0x40[kN] | CSA5.0x50[kN] | CNA4.0x35[kN] | CNA4.0x40

...cket capacity
...LT - Fastening Pattern 3
...ngle brackets per conne...

Product characteristic capacities - CLT to CLT - 1 angle bracket - Nailing pattern 3 with SIT
See full table online ➡

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





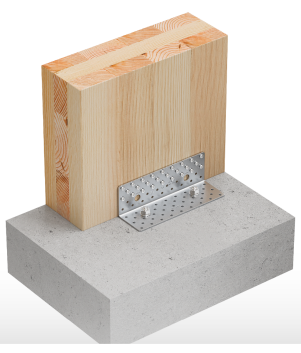
Reference | Number | Flange B | Qty | Type | ...[kN] | CSA5.0x50[kN] | C...

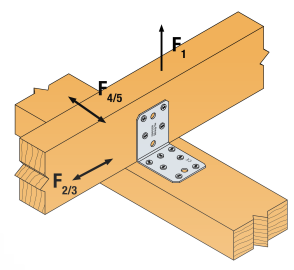
...gle bracket capacity
...CLT to Concrete - Faster...
...pacities - Timber CLT - ...

ABCLT210 | 2.0 | M12 | 9.0 | CNA/CSA | - | - | - | - | 16.3 | 18.5 | 22

Simplified characteristic capacities - CLT to rigid support - 1 angle bracket - Nailing pattern 4
See full table online ➡

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





Reference | Number | Joist | Qty | Typ... | ...5.0x40[kN] | CSA5.0x50[...

...Angle bracket capacity
...s - CLT to Concrete - Fa...
...capacities - CLT to conc...

ABCLT210 | 26 (17) | CNA/CSA | 2.0 | M12 | 20.6 | 23.8 | 29.8 | 33.5 | min(47.9;32.0/kmod) | 32.0/kmod | 32.0/kmo...

Simplified characteristic capacities - CLT to rigid support - 1 angle bracket - Nailing pattern 5
See full table online ➡

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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