ABCLT Low Profile Connector for Cross Laminated Timber

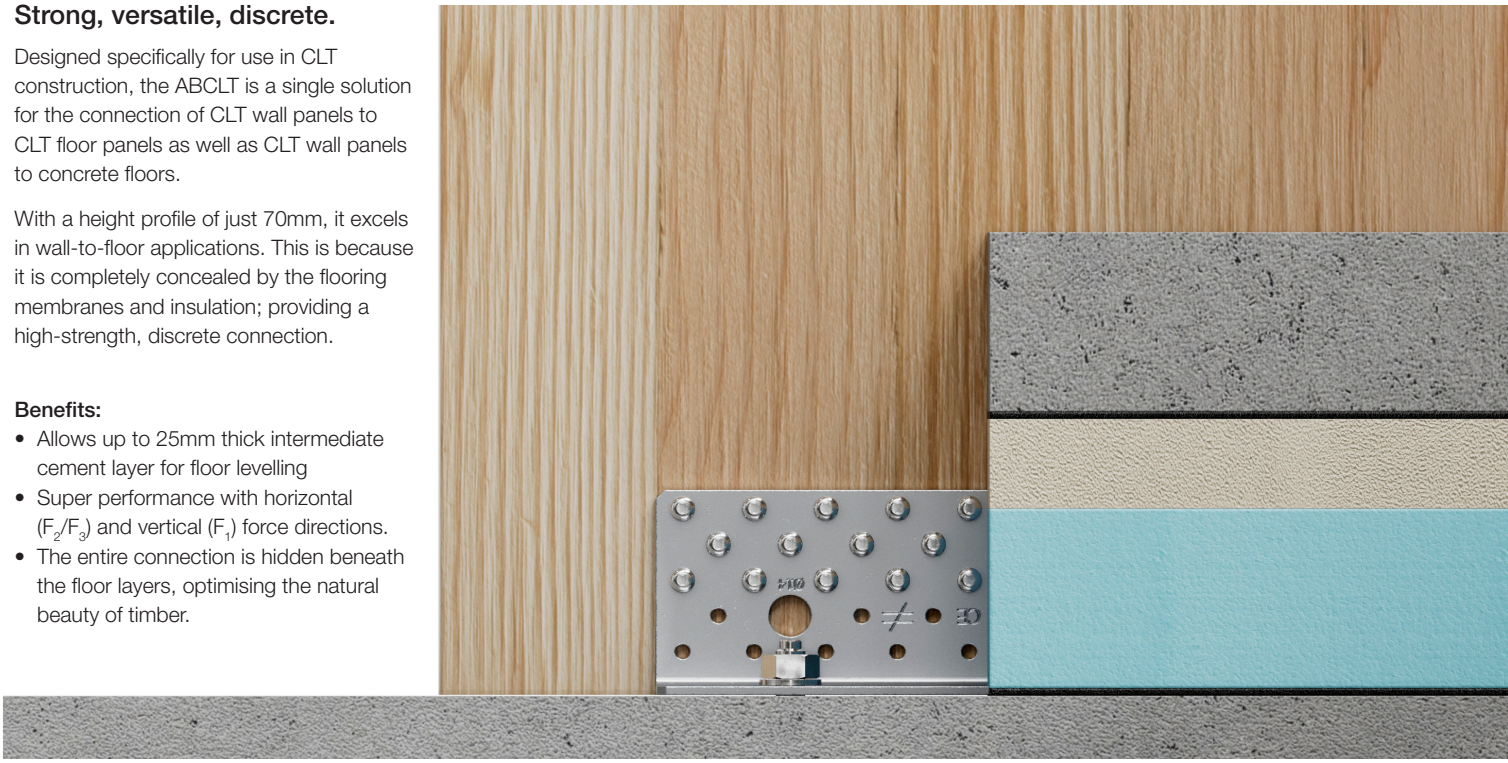
Strong, versatile, discrete.

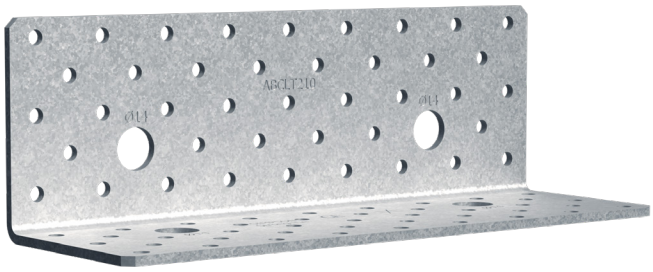
Designed specifically for use in CLT construction, the ABCLT is a single solution for the connection of CLT wall panels to CLT floor panels as well as CLT wall panels to concrete floors.

With a height profile of just 70mm, it excels in wall-to-floor applications. This is because it is completely concealed by the flooring membranes and insulation; providing a high-strength, discrete connection.

Benefits:

- Allows up to 25mm thick intermediate cement layer for floor levelling
- Super performance with horizontal (F_2/F_3) and vertical (F_1) force directions.
- The entire connection is hidden beneath the floor layers, optimising the natural beauty of timber.





Material:

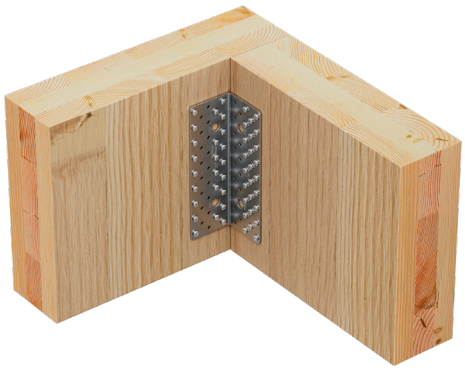
- Pre-galvanised mild steel; S250GD+Z275 according to EN 10346

Suitable on:

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

Fastener:

- On timber: CNA nails or CSA screws
- On concrete:
  Mechanical anchor: FM 753 evo M12
  Chemical anchor: AT-HP resin + LMAS M12-150/35 threaded rod



CLT wall-to-wall connection

CLT wall-to-floor connection

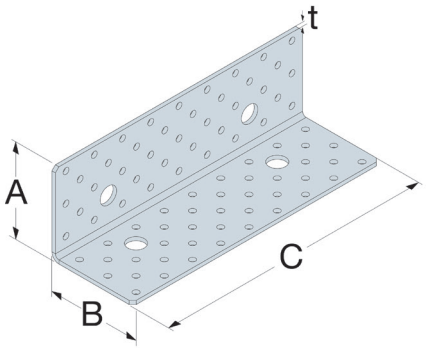
ABCLT with SIT Acoustic Insulation

Technical Support Contact your local Simpson Strong-Tie technical support team at any time during the design stage. We can advise the optimal nail pattern and load capacity.

ABCLT Low Profile Angle Bracket for CLT

Product Dimensions

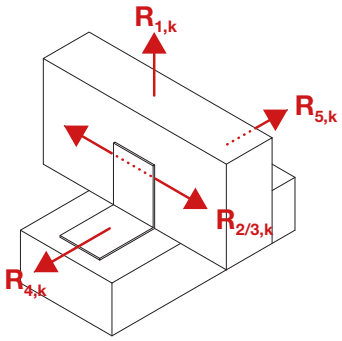
References	Product dimensions [mm]				Holes: Flange A		Holes: Flange B	
	A	B	C	t	Ø5 mm	Ø14 mm	Ø5 mm	Ø14 mm
ABCLT210	69	69	210	3,0	43	2	43	2



Product Characteristic Capacities – CLT to CLT [kN]

References	Fastener Qty		$R_{1,k}$		$R_{2,}k = R_{3,k}$	
	Flange A	Flange B	CSA5.0x50	CSA5.0x50	CSA5.0x40	CSA5.0x50
ABCLT210	24	26	20.7	26.9	41.2	48.2

Other applications, load directions or fastening solutions are available on our website.
Visit www.strongtie.fi



Up to 25 mm concrete to CLT interlayer

Cement floor
Waterproof membrane
Acoustic insulation
Insulation
Waterproof membrane

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