SIMPSON Strong-Tie

HDCLT
Concealed solution for connecting CLT walls to concrete foundations.

High strength, low profile, seamlessly secure. Designed specifically for connecting cross-laminated timber (CLT) wall panels to concrete foundations: the HDCLT tension tie provides a robust design uplift capacity of up to 18.6 kN, yet due to it's low profile of just 140 mm, remains completely concealed within the subfloor and floor covering layers.

To help reduce installation time, the fastener configuration has been optimised for maximum performance with the most efficient screw quantity.

HDCLT includes an 8mm thick washer integrated with the tension tie seat, which provides additional strength where it is most needed. The profile design permits up to 25mm concrete-CLT panel interlayer thickness.

Applications

Material

Tension Tie: S 250 GD + Z 275 according to DIN EN
Washer: S235JR according to EN 10025

Corrosion Protection:

275 g/m2 galvanized on both sides 20mm washer: ~ 55µm according to EN1461

Suitable For

Supporting Member:

- CLT, Concrete, Steel, Solid Timber

Supported Member:
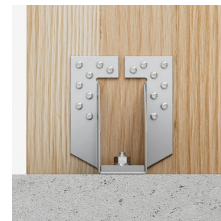
- CLT, Solid wood, Engineered Timber

Fastener

- CSA Ø5mm or CNAØ4mm according to ETA-04/0013
- On concrete: Heavy Duty Wedge Anchor, Injection system for concrete, High capacity undercut anchor, concrete screw

Installation

The connection to the wood is made with CNA nails or CSA connector screws.
The bolt must be verified for the tensile force to be absorbed.
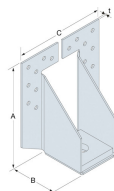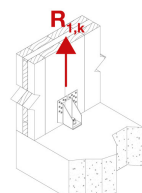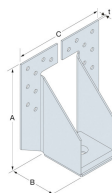
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Technical Data

Product dimensions

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Product capacities

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