Technical data sheet

ACW
Connector for Curtain Wall

This connector was developed to be used with timber curtain wall on concrete floor. It can be used in several configuration depending on the installation. Its special shape allows it to take important load without any deformation.

Features

Product Material / Thickness:

S250GD + Z275 in 2,5mm

Features & Benefits

Multiple uses.

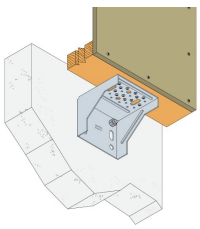
Applications

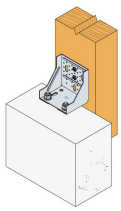
Header member

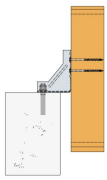
a

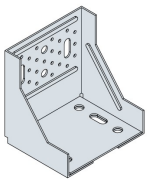
Application Field

a









Timber Wall under connector in front of the floor

Timber Wall on connector in front of the floor

Timber Wall under connector in front of the floor

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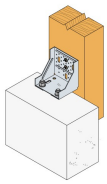
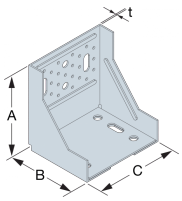
Technical Data

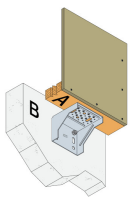
Product Dimensions

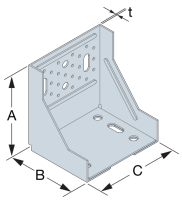


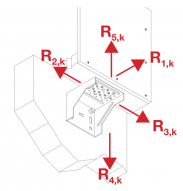


References	Product Dimensions [mm]				Joist			Holes flange B		Box Quantity	Weight [kg]
	A	B	C	t	Ø5	Ø9	Ø13x30	Ø14	Ø14x30		
ACW155	154	123	150	2.5	33	2	1	4	2	6	1.3

Dimensions and characteristic values



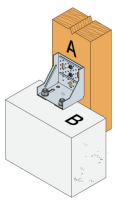


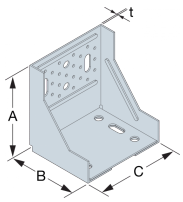


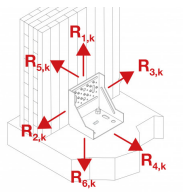
References	Product capacities - Timber to Concrete							
	Number of Fasteners				Characteristic capacities - Timber C24 - Middle of concrete [kN]			
	Joist		Flange B		$R_{1,k}$	$R_{2,k} = R_{3,k}$	$R_{4,k}$	$R_{5,k}$
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x35	CNA4.0x35	CNA4.0x35
ACW155	13	CNA4.0x35	2	Ø12	16.3	15.3	21.1	5

Please note that the loads given in this table are maximum loads. If the anchors don't resist to these loads, they will be reduced.
These capacities are valid with anchors in holes close to the bend
The capacities are given for timber element that can't rotate.

Characteristic capacities - Timber to rigid support - Near concrete edge







References	Product capacities - Timber to Concrete								
	Number of Fasteners				Characteristic capacities - Timber C24 - Near concrete edge [kN]				
	Joist		Flange B		$R_{1,k}$	$R_{2,k} = R_{3,k}$	$R_{4,k}$	$R_{5,k}$	$R_{6,k}$
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x35	CNA4.0x35	CNA4.0x35	CNA4.0x35
ACW155	13	CNA4.0x35	2	Ø12	8.8	8.9	6	11.4	21.2

Please note that the loads given in this table are maximum loads. If the anchors don't resist to these loads, they will be reduced.
These capacities are valid with anchors in holes far from the bend

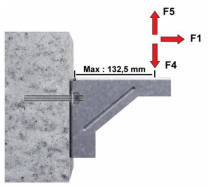
Installation

Fasteners

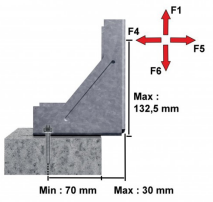
On concrete: 2 Throughbolt Ø12 or resin anchor + 2 threaded rod Ø12 (See bolt pattern)
Due to the high loads, the anchors resistance must be checked. The resistance of the ACW155 can be limited by the anchors.
On timber: 15 Nails CNA4.0x35 (see nail pattern) or bolt Ø10 or wood screw

Timber Element

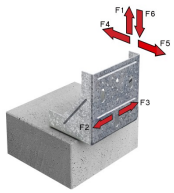
All the timber elements attached to the angle bracket, must be designed by a skilled person. The timber element must be checked for splitting, deformation, load capcity and other possible failure.



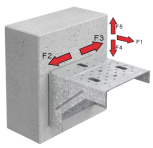
Load Direction



Load Direction



F1-F2-F3-F4-F5-F6 Force Directions

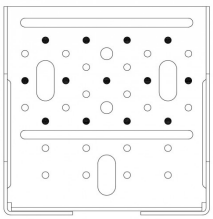


F1-F2-F3-F4-F5 Force Directions

Timber Wall under connector in front of the floor

Timber Wall on connector in front of the floor

Timber Wall under connector in front of the floor



ACW - Nailing pattern on CLT wall