Technical 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.

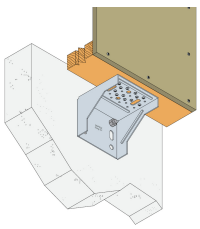
Applications

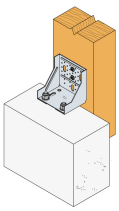
Header member

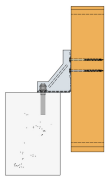
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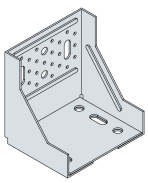
Application Field

a











Timber Wall under connector in front of the floor



Timber Wall on connector in front of the floor

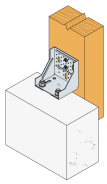


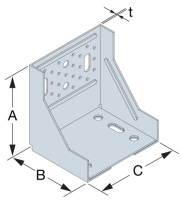
Timber Wall under connector in front of the floor

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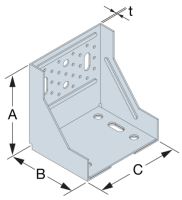
Technical Data





Product Dimensions

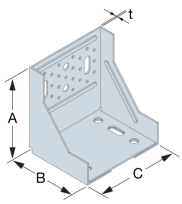
Reference	Connector Dimensions										
	Other		Product Dimensions[mm]				Joist			Flange B	
	Qty per Box	Weight[kg]	A[mm]	B[mm]	C[mm]	Thickness[mm]	Round		Obround	Round	Obround
							Ø5[mm]	Ø9	Ø13x30	Ø14[mm]	Ø13x30
ACW155	6.0	1.3	154	123	150	2.5	33	2	3	4	2



Dimensions and characteristic values

Reference	Angle bracket capacity							
	Product capacities - Timber to Concrete							
	Number of Fasteners				Characteristic capacities - Timber C24 - Middle of concrete[kN]			
	Joist		Flange B		$R_{1,k}$	$R_{2,k}=R_{3,k}$	R4,k	R5,k
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x35	CNA4.0x35	CNA4.0x35
ACW155	13.0	CNA4.0x35	2.0	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

Reference	Angle bracket capacity								
	Product capacities - Timber to Concrete								
	Number of Fasteners				Characteristic capacities - Timber C24 - Near concrete edge[kN]				
	Joist		Flange B		$R_{1,k}$	$R_{2,k}=R_{3,k}$	R4,k	R6,k	R5,k
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x35	CNA4.0x35	CNA4.0x35	CNA4.0x35
ACW155	13.0	CNA4.0x35	2.0	Ø12	8.8	8.9	6	21.2	11.4

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

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Installation

Fasteners

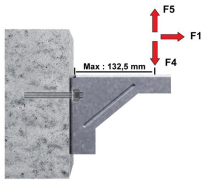
On concrete: 2 Throughbolt Ø12 or resin anchor + 2 threaded rod Ø12 (See bolt pattern)
Due to the high loads, the anchors resistance must be checked. The resistance of the ACW155 can be limited by the anchors.
On timber: 15 Nails CNA4.0x35 (see nail pattern) or bolt Ø10 or wood screw

Timber Element

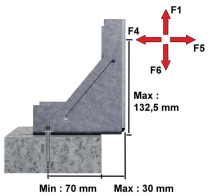
All the timber elements attached to the angle bracket, must be designed by a skilled person. The timber element must be checked for splitting, deformation, load capcity and other possible failure.

Installation

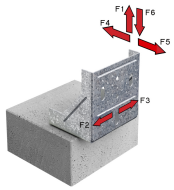
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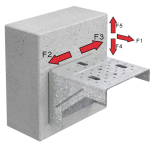
Load Direction



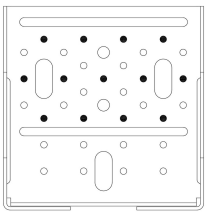
Load Direction

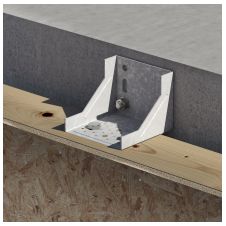


F1-F2-F3-F4-F5-F6 Force Directions



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

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2026-11-20