Technický list

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

One product to be use in several cases.

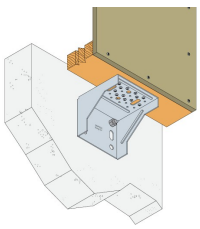
Applications

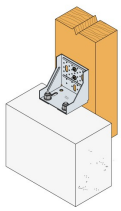
Support

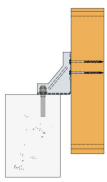
A

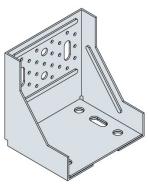
Application Field

A









Bracket above. Load direction: F5 = 5 kN

Bracket below, in the middle of concrete

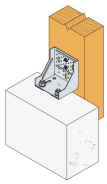
Brackets set below, on slab edge

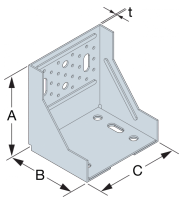
Technický list

ACW
Connector for Curtain Wall

Technical Data

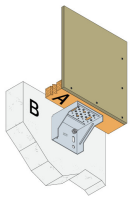
Rozměry a typické hodnoty

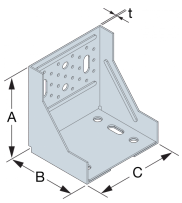


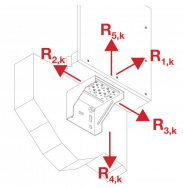


Art. nr.	Rozměry a typické hodnoty [mm]				Příruba A			Hlava		Box Quantity	Hmotnost [kg]
	A	B	C	t	Ø5	Ø9	Ø13x30	Ø14	Ø14x30		
ACW155	154	123	150	2.5	33	2	1	4	2	6	1.3

Characteristic capacities - Timber to rigid support - Middle of concrete



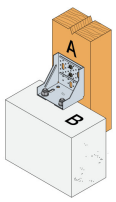


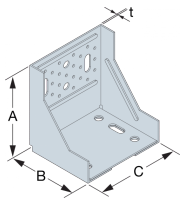


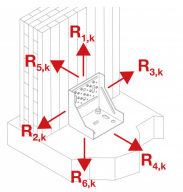
Art. nr.	Product capacities - Timber to Concrete							
	Upevňovací prvky				Characteristic capacities - Timber C24 - Middle of concrete [kN]			
	Příruba A		Hlava		$R_{1,k}$	$R_{2,k} = R_{3,k}$	$R_{4,k}$	$R_{5,k}$
	Množství	Typ	Množství	Typ	CNA4.0x35	CNA4.0x35	CNA4.0x35	CNA4.0x35
ACW155	13	CNA4.0x35	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







Art. nr.	Product capacities - Timber to Concrete								
	Upevňovací prvky				Characteristic capacities - Timber C24 - Near concrete edge [kN]				
	Příruba A		Hlava		$R_{1,k}$	$R_{2,k} = R_{3,k}$	$R_{4,k}$	$R_{5,k}$	$R_{6,k}$
	Množství	Typ	Množství	Typ	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

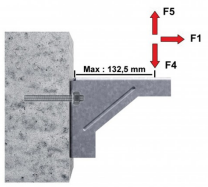
Installation

Befestigung

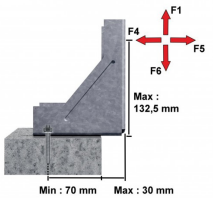
On concrete: 2 Throughbolt Ø12 or resin anchor + 2 threaded rod Ø12 (See bolt pattern)
Due to the high loads, the anchors resistance must be checked. The resistance of the ACW155 can be limited by the anchors.
On timber: 15 Nails CNA4.0x35 (see nail pattern) or bolt Ø10 or wood screw.

Timber Element

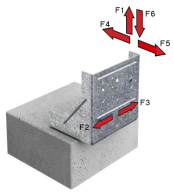
All the timber elements attached to the angle bracket, must be designed by a skilled person. The timber element must be checked for splitting, deformation, load capcity and other possible failure.



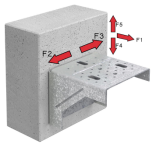
Load direction - middle of concrete slab



Load directions - near concrete edge



Load directions - near concrete edge

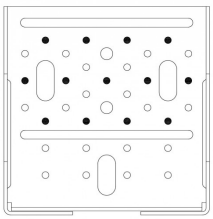


Load directions - middle of concrete slab

Bracket above. Load direction: F5 = 5 kN

Bracket below, in the middle of concrete

Brackets set below, on slab edge



ACW - Nailing pattern on CLT wall