Technical Sheet

EBCN
Angle bracket for cladding

The EBCN angle bracket connects vertical battens directly to the supporting structure without the need for additional battens, it creates a zone for insulation and/or ventilation between the wall and the cladding.



Features

Material

- Pre-galvanised mild steel. S250GD with Z450 coating (acc. to EN10346)
- 2.5 mm thickness

Benefits

- Connect vertical battens directly to the supporting structure.
- Creates a zone for insulation or ventilation.
- Reduces installation time, materials and cost.
- Suitable for cavities 50mm to 145mm.
- Get an oblong hole to adjust the plumb line of the batten/profile,
- The coating (Z450) allows use externally if protected from rainfall. May be installed up to a distance of 200m from the coastline (no closer).

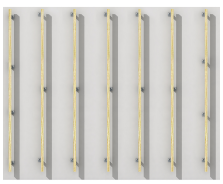
Applications

Header member

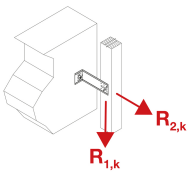
- **Supporting member:** concrete
- **Supported member:** solid wood, etc.

For Use With

- Fastening of timber battens or steel profile, to support exterior cladding.



EBCN

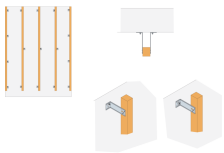




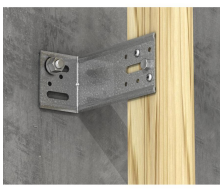
Cladding installation



Attaching wood rafters and square butting rafters.



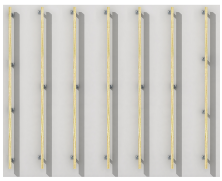




Connect timber battens.



Cladding installation



EBCN

Technical Sheet

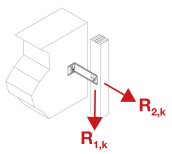
EBCN
Angle bracket for cladding

Technical Data

Product dimensions

Reference	Connector Dimensions								
	Other		Product Dimensions[mm]				Joist		Flange B
	Tun / DB nr.	Weight[kg]	A[mm]	B[mm]	C[mm]	Thickness[mm]	Round	Obround	Obround
							Ø6	Dimension obround	Ø9x20[mm]
EBCN100/2.5	2408465	0.19	100	50	60	2.5	8	9.0x51	2
EBCN120/2.5	2408469	0.22	120	50	60	2.5	8	9.0x51	2
EBCN140/2.5	2408471	0.24	140	50	60	2.5	8	9.0x51	2
EBCN160/2.5	2408473	0.26	160	50	60	2.5	8	9.0x51	2
EBCN200/2.5	2408478	0.31	200	50	60	2.5	8	9.0x51	2
EBCN210/2.5	2408479	0.32	210	50	60	2.5	8	9.0x51	2

Product characteristic capacities - Timber to concrete - 1 angle bracket per connection



Reference	Angle bracket capacity								
	Product characteristic capacities - Timber to Concrete - 1 angle bracket per connection								
	Number of Fasteners						Characteristic capacities - 1 angle bracket per connection[kN]		
	Flange B		Joist[kN]				$R_{5.k}$[kN]	$R_{1,k}$[kN]	
	Qty	Type	Qty	Type	Qty 2	Type 2		1 mm slip	3 mm slip
EBCN100/2.5	1.0	Ø8	1.0	Screw Ø8.0x40	2.0	Screw Ø5.0x40	2.3	0.75	0.75
EBCN120/2.5	1.0	Ø8	1.0	Screw Ø8.0x40	2.0	Screw Ø5.0x40	2.3	0.54	0.69
EBCN140/2.5	1.0	Ø8	1.0	Screw Ø8.0x40	2.0	Screw Ø5.0x40	2.3	0.44	0.63
EBCN160/2.5	1.0	Ø8	1.0	Screw Ø8.0x40	2.0	Screw Ø5.0x40	2.3	0.35	0.55
EBCN200/2.5	1.0	Ø8	1.0	Screw Ø8.0x40	2.0	Screw Ø5.0x40	2.3	0.2	0.42
EBCN210/2.5	1.0	Ø8	1.0	Screw Ø8.0x40	2.0	Screw Ø5.0x40	2.3	0.19	0.41

Note - Slip under load measured at extremety of bracket

Installation

Fixing

Drill holes: Number and diameter, see table of dimensions.

- **Wood rafters** :
  - 1 LAG lag screw dia. 8-50 + 2 screws anti-rotation 5 x 40 mm. (it can be either TTUFS, TTZNFS or SSH screws)
  - **1 SSH Ø 8 x 40 mm + 2 screws anti-rotation Ø 5 x 40 mm.(it can be either TTUFS, TTZNFS or SSH screws)**
- **Concrete substrate :** FM 753 evo M8 68/5 anchor or mechanical anchor FM-X5 8-80/10

Installation

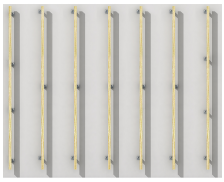
1. Draw the position of brackets, in a staggered manner on either side of the position of the batten/profile. Min 3 bracket per batten/profile. For batten/profile under 80cm: min 2 brackets. The spacing of brackets depends on bracket and anchor capacity, with a maximum of 1m when using "L" profiles or under seismic specifications, and with a maximum of 1.35m otherwise. When brackets cannot be set in a staggered manner, then the maximum spacing is 0.8m. The ovehang of batten/profile shall not exceed 0.25m.
2. Secure the bracket onto the support with the appropriate anchor, placed through the top oblong hole.
3. Set the insulation layer
4. Secure the batten/profile with one Ø8mm screw in the oblong hole, adjust the verticality of the batten/profile, then set 2 additionnal Ø5mm screw to block the position.
5. install the cladding/facade with the appropriate fastener.



Connect timber battens.



Cladding installation



EBCN



Top view

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