

EBCN
Angle bracket for cladding

The EBCN angle bracket has been designed to fix 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 to use it next to the seaside (200 m), suitable with atmosphere within 3 km from seaside (no direct contact by sea water)

Applications

Header member

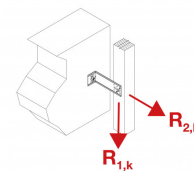
- **Supporting member:** concrete, masonry, etc.
- **Supported member:** solid wood, etc.

For Use With

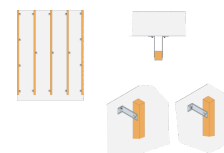
- Fastening of timber battens or steel profile, to support exterior cladding (ETICS).



ABC



Cladding installation

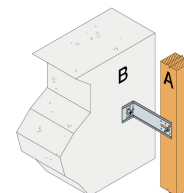


Attaching wood rafters and square butting rafters.

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Technical Data

Product dimensions



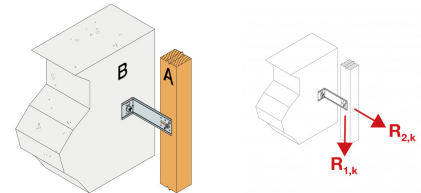
References	DB nr.	Product dimensions [mm]				Holes flange A		Holes flange B
		A	B	C	t	Ø6	Dim. oblong holes	Ø9.0x20 [mm]
EBCN40/2.5	-	40	50	60	2.5	4	9.0x20	2
EBCN50/2.5	-	50	50	60	2.5	4	9.0x30	2
EBCN60/2.5	-	60	50	60	2.5	6	9.0x35.5	2
EBCN70/2.5	-	70	50	60	2.5	6	9.0x51	2
EBCN80/2.5	-	80	50	60	2.5	8	9.0x51	2
EBCN90/2.5	-	90	50	60	2.5	8	9.0x51	2
EBCN100/2.5	2408465	100	50	60	2.5	8	9.0x51	2
EBCN110/2.5	2408467	110	50	60	2.5	8	9.0x51	2
EBCN120/2.5	2408469	120	50	60	2.5	8	9.0x51	2
EBCN130/2.5	2408470	130	50	60	2.5	8	9.0x51	2
EBCN140/2.5	2408471	140	50	60	2.5	8	9.0x51	2
EBCN150/2.5	2408472	150	50	60	2.5	8	9.0x51	2
EBCN160/2.5	2408473	160	50	60	2.5	8	9.0x51	2
EBCN170/2.5	2408475	170	50	60	2.5	8	9.0x51	2
EBCN180/2.5	2408476	180	50	60	2.5	8	9.0x51	2
EBCN190/2.5	2408477	190	50	60	2.5	8	9.0x51	2
EBCN200/2.5	2408478	200	50	60	2.5	8	9.0x51	2
EBCN210/2.5	2408479	210	50	60	2.5	8	9.0x51	2
EBCN220/2.5	2408480	220	50	60	2.5	8	9.0x51	2
EBCN230/2.5	2408481	230	50	60	2.5	8	9.0x51	2
EBCN240/2.5	2408483	240	50	60	2.5	8	9.0x51	2
EBCN250/2.5	2408484	250	50	60	2.5	8	9.0x51	2
EBCN260/2.5	-	260	50	60	2.5	8	9.0x51	2

Technical data sheet



EBCN Angle bracket for cladding

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



References	Product characteristic capacities - Timber to Concrete - 1 angle bracket per connection								
	Fasteners						Characteristic capacities - 1 angle bracket per connection [kN]		
	Flange A [kN]				Flange B		R _{1,k} [kN]		R _{2,k} [kN]
	Qty	Type	Qty	Type	Qty	Type	1 mm slip	3 mm slip	
EBCN40/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.93	0.93	2.3
EBCN50/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.93	0.93	2.3
EBCN60/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.93	0.93	2.3
EBCN70/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.93	0.93	2.3
EBCN80/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.87	0.87	2.3
EBCN90/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.81	0.81	2.3
EBCN100/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.75	0.75	2.3
EBCN110/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.65	0.72	2.3
EBCN120/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.54	0.69	2.3
EBCN130/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.47	0.67	2.3
EBCN140/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.44	0.63	2.3
EBCN150/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.38	0.58	2.3
EBCN160/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.35	0.55	2.3
EBCN170/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.3	0.51	2.3
EBCN180/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.26	0.48	2.3
EBCN190/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.24	0.46	2.3
EBCN200/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.2	0.42	2.3
EBCN210/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.19	0.41	2.3
EBCN220/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.17	0.38	2.3
EBCN230/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.15	0.36	2.3
EBCN240/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.14	0.33	2.3
EBCN250/2.5	1	Screw Ø8.0x40	2	Screw Ø5.0x40	1	Ø8	0.13	0.31	2.3
EBCN260/2.5	2	Screw Ø8.0x40	3	Screw Ø5.0x40	1	Ø8	0.11	0.26	2.3

Note - Slip under load measured at extremity of bracket

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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
- **Hollow masonry substrate :** FM-X5 8-80/10 nylon plug or chemical anchor: AT-HP or POLY-GP resin + LMAS M8-95/20 threaded rod + SH M16-130 screen.

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 overhang 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 additional Ø5mm screw to block the position.
5. install the cladding/facade with the appropriate fastener.



Connect timber battens.



Cladding installation



ABC



Top view

