

Technical data sheet

SIMPSON

Strong-Tie

EBC

Angle bracket for cladding (previously ABC)

The EBC (previously ABC) 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.

Benefits

- Connect vertical battens directly to the supporting structure.
- No need for horizontal battens.
- Creates a zone for insulation or ventilation.
- Reduces installation time, materials and cost.
- Suitable for cavities 50mm to 145mm.

Applications

Header member

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

For Use With

- Fastening of battens for exterior cladding.

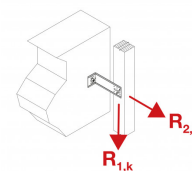


INDOOR

Z350



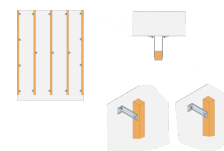
ABC



Cladding installation



Attaching wood rafters and square butting rafters.

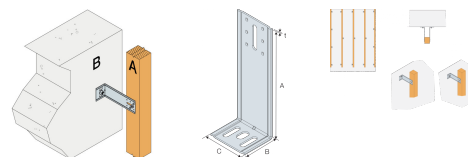


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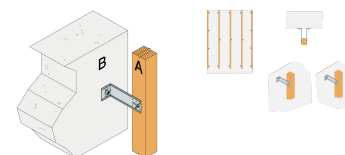
Technical Data

Product dimensions



References	Product dimensions [mm]				Holes flange A		Holes flange B	
	A	B	C	t	Ø5	Ø8,5x40	Ø8,5x30	Ø11,5x20
EBC100/2.5	98	53	64	2.5	6	1	2	1
EBC120/2.5	118	53	64	2.5	6	1	2	1
EBC140/2.5	138	53	64	2.5	6	1	2	1
EBC160/2.5	158	53	64	2.5	6	1	2	1
EBC200/2.5	198	53	64	2.5	6	1	2	1
EBC210/2.5	208	53	64	2.5	6	1	2	1

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				Flange B		R _{1,k}		R _{5,k}
	Qty	Type	Qty	Type	Qty	Type	1 mm slip	3 mm slip	
EBC100/2.5	2	CSA Ø5,0x40	1	SSHØ8,0x40	1	Ø8	0.22	0.36	1.56
EBC120/2.5	2	CSA Ø5,0x40	1	SSHØ8,0x40	1	Ø8	0.22	0.36	1.56
EBC140/2.5	2	CSA Ø5,0x40	1	SSHØ8,0x40	1	Ø8	0.18	0.31	1.56
EBC160/2.5	2	CSA Ø5,0x40	1	SSHØ8,0x40	1	Ø8	0.18	0.31	1.56
EBC200/2.5	2	CSA Ø5,0x40	1	SSHØ8,0x40	1	Ø8	0.07	0.19	1.56
EBC210/2.5	2	CSA Ø5,0x40	1	SSHØ8,0x40	1	Ø8	0.07	0.19	1.56

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 SSH8x40 + 2 CSA 5x40 screws.
- **Concrete substrate** : FM753 6x65 anchor (75320C0606500) or mechanical anchor HIPC 8-60/20
- **Hollow masonry substrate** : *chemical anchor*: AT-HP or POLY-GP resin + LMAS M8-95/20 threaded rod + SH M16-130 screen.

Installation

In standard sections, the standard installation consists of positioning the vertical rafters with a 60 cm spacing.

These rafters are fastened with angle brackets arranged in a staggered manner on either side of the rafter every 1.35 m, i.e., 1.23 angle brackets/m².

On the edges of the building, the spacing between the angle brackets is reduced (0.90 m) and the angle brackets are all placed on the same side on the end rafter (see diagrams). The rafter is fastened onto the angle bracket by a lag screw dia. 8 mm (placed in the obround hole dia. 8 x 40 mm centre) and by 2 additional screws dia. 5 mm to ensure the "anti-rotation" of the rafter. The angle bracket is fastened onto the concrete supporting member with an anchor dia. 8 mm placed in the top most obround hole dia. 8.5 x 30 mm.



Connect timber battens.



Cladding installation



ABC



Top view

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