



Nu-Wall fixed to Concrete and Masonry Substrates

Nu-Wall aluminium cladding is often specified over various concrete, block, or masonry substrates.

Traditional NZS3604 timber framed construction (on cavity) requires a 20mm cavity batten to be fixed to the structure/framing and are treated as non-structural elements. Nu-Wall fastening screws pass through the batten and into the framing achieving a minimum embedment of 30mm into the structural timber framing, (studs or noggs) to provide the required fastening restraint.

When fixing Nu Wall to concrete or masonry substrates, the preferred installation methodology is using structural cavity battens which are structurally fixed to the substrate using masonry fasteners.

There are two preferred methods of fixing Nu-Wall to these substrates:

1. 45mm structural timber cavity batten

- > 45mm structural timber cavity battens are structurally fixed to the concrete or masonry substrate.
- > Minimum 2KN masonry fixings are required at a maximum 600mm centres along the batten.
- > Countersunk heads are required to ensure a flush batten surface.
- > Fasteners must achieve a minimum of 30mm penetration into the concrete/masonry substrate.
- > The Nu-Wall cladding is fixed directly to the batten using a single 10g x 32mm SS C/S screw (Supplied by Nu-Wall) and our standard NC203 fixing clip.
- > This 45mm cavity batten option is limited to projects that do not require an inter-storey joint. Where an inter-storey joint is required we recommend using a 20 mm structural batten such as AliBat.

2. 20mm AliBat non-combustible structural aluminium cavity batten

- > Fixed to the concrete using 2KN min masonry fixings at one fastening every 300mm centres.
- > The Nu-Wall is then fixed directly to the AliBat via the Nu-Wall NC203E fixing clip and a 10g Tek screw.
- > A separation layer is required between raw concrete and uncoated AliBat (DPC or similar)
- > AliBat is supplied by Nu-Wall - refer to Nu Wall AliBat design documentation (www.alibat.co.nz)

Architecturally inspired. Performance proven.

22 March 2022
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Suggested Concrete/Masonry fasteners



Hardtec SS CSK screw bolt (ANZOR)



Fischer FBS II CSK screw bolt (ANZOR)

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