



5/2/2024

Technical Note: 1 BWDS 24

Barricade Weather Defense rigid underlay system

Alternative nail type and fixing method

Barricade Weather Defense is a rigid underlay system based on 6- or 9-mm fibre cement sheet nailed to timber framing to a tested nail pattern. Bracing units are available and a down loadable bracing calculator may be found on the Masons NZ website. The specified brackets and fixings must be used for any bracing panels. The fixed fibre cement sheet are then covers by Barricade WD self-adhesive weather resistive barrier and various accessories to provide wind and watertight yet breathable pre cladding system.

The **Barricade Weather Défense system** may be specified using MasterSpec or Smart Spec. Cad drawings and installation instructions may also be found on Masons Website <https://mpb.co.nz/>

Barricade Weather Defense is covered by a Codemark certificate number CMNZ70128.

Current Fixing Method for barricade Weather Defense system

The installation instructions for the Barricade Weather Défense system per the Codemark stipulate that stainless steel 60 mm x 2.8 flat -round head nails shall be used to fix the sheets and that these should be fitted by *hand (hand nailed)*, not gun nailed.

Masons appreciates that the building trade requires the flexibility to use more efficient fixing methods and a choice of corrosion resistance fastenings.

What Has Changed?

Based on out in house testing, and professional advice Masons NZ can now advise the following

Masons Barricade Weather Defense fibre cement sheets may be fixed using an **Ecko Hamahand Pneumatic weatherboard coil-nailer WB75, firing Ecko Hmahand 60-, or 65-mm ring shanked round head nails, in either Stainless Steel or HD Galvanised.**

The set of the nail head is controllable by adjustment of the compressor pressure, and the depth setting of the Hammer Handgun. Follow instructions offered by Ecko closely, including oiling the Hammahand weatherboard nailer-gun, and adjusting operating pressure and the depth (firing pin) to achieve a Just Flush or Proud finish of the flat round nail head with the top surface of the fibre cement board. *Do Not Over Drive the fastenings.*

Continued from Page One,

On Barricade Weather Defense Boards that are *not* bracing panels

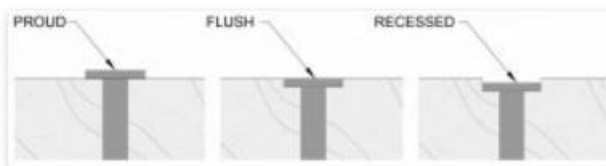
Finish the round nail head Proud, or at most Flush. Over driving weakens the fixings' ability to restrain the boards, *do not over drive fastenings past flush* with the board surface.

On Bracing Panels.

When using the Hammahand gun pay particular attention to fixing the **Bracing Panels** to avoid spalling at the rear of the board.

Hold the bracing panel boards firmly against the framing when Hammahand gun fixing to *reduce spalling* at the rear of the boards. Masons Recommends the **fasteners on bracing panels** are set **Proud** for maximum board retention. Use the correct Hammahand fixings, ensure the compressor is at the correct pressure and the Hammahand is well oiled, and dialled in correctly for depth set by test firing on fibre cement sheet and timber scraps or off cuts. Calibrate regularly during use to avoid over driving.

Occasional finishing with a hammer tap, to set the head on bracing panel fastenings may be required. This is desirable due the greater control that hammer finishing allows.



Proud, flush, and recessed nail head conditions.

Recessed = *Over Driven* – weakening holding power *

- <https://www.constructionspecifier.com/fiber-cement-panel-siding-nail-head-pull-through-resistance/2/>

Warranty

Masons now extends the warranty on the Barricade Weather Defense system to cover the correct installation of the system using the Ecco Hammahand weather board nailer, and Ecco Hammahand coil nails. In accordance with this technical note. The correct selection of the fastenings for the corrosion zone is up to the designer, the correct seating and installation is up to the installer. Masons NZ will not be responsible for incorrect selection or incorrect installation of the pneumatic gun driven fasteners.

Fixing Pattern. - Important.

The fixing pattern does not change. Please fix the Barricade Weather Défense sheets according to the fixing schedule – set out, that may be found in the installation instructions and the CAD drawings.

Questions and Answers;

Can a Gas operated gun-nailer be used with a D type head or other fastener to Fix Barricade Weather Défense fibre cement sheets?

No, Masons has only performed trials with the Pneumatic Ecco Hammahand weather board WB75 coil nailer, an Ecco V8 portable compressor EK1501, and Ecco Hammahand Round Read coil nail fasteners.

Hand fixing the correct fasteners – hand nailing is also acceptable. No other types of fasteners or fixing gun type should be used. Pre-drilling and hand nailing eliminated all possibility of spalling and over driving.

Can I use another Brand of pneumatic coil-nailer and fixings?

We have only trailed the Ecko coil-nailer fastening tools and fasteners. Masons recommend these, and we cover the correct use of these in our system warranty.

Can I use another grade of corrosion resistance or fastener gauge?

No, the fastenings must be Ecko Hammahand SS or Hot Dip Galvanized 60 /65 mm x 2.8 Gauge fasteners or equivalent hand driven nails as a minimum. Correctly chosen for the corrosion zone.

Anything less is non-compliant with Masons warranty or the Codemark.

N.B. Please see the *appendix* for details of the Ecko Hammahand tools and Fastenings



Arthur Whitfield


Technical Manager- NZ Sales Manager

Masons NZ

Appendix:

The Ecko Hammahand tools and Fastenings

The Ecko Hammahand WB75 coil-nail weatherboard nailer.



**HAMMAHAND®
Weatherboard Nailer
WB75**

STOCKISTS

Product Code: WB75

- Covers a wide range of manual applications
- Accepts both wire welded and wirelesscoil nails without any adjustment
- Lightweight, magnesium body
- Tough nail magazine cover
- Blow mould carry case



Hammahand Coil nails – 60 or 65mm x 2.8 G SS or Hot Dip Galvanised



ECKO Fastening Systems *Makes your job easier, everyday*

Products ▾ Catalogue BPIR Stockists

Round Head

STOCKISTS

The Hammahand V8 EK 1501 portable compressor



HAMMAHAND® **V8compressor®** **EK1501**

STOCKISTS

Product Code: EK1501

- Quick recovery
- Stable in side the vehicle
- Ultra-low voltage start