Installation Instructions for renovation- addition to the Fixing Guide

IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS will VOID THE PRODUCT ONLY WARRANTY.

1. OVERVIEW

This document is an addition to the James Hardie® **Hardie**Backer250® Fixing Guide. The recommendation contained in this document addresses the fixing recommendations of **Hardie**Backer250® cement board to masonry walls. **Hardie**Backer250® cement board is simply adhered to the masonry walls using tile adhesive with masonry anchors. This recommendation is intended for use in residential and light commercial buildings. Maximum load carrying weight is 45 kg / m^2.

2. COMPOSITION

HardieBacker250® cement board is made from Portland cement, ground sand, cellulose, water and selected additives. The boards contain no asbestos, formaldehyde, gypsum or glass fibre.

3. ASSOCIATED PRODUCTS

1. MASONRY ANCHORS

Use Ø 6mm x 50 mm masonry anchors with self embedding head. Do not overdrive head of anchor, it must be flush with face of **Hardie**Backer250® cement board. The screw should have adequate provision for corrosion resistance.

2. TILE ADHESIVE

Use tile adhesive that complies with BS EN 13888:2002 or preferably BS 5980:1980, type 1, 2 or 3. Adhesives for use with ceramic tiles and mosaics. Contact tile adhesive manufacturer for suitability and any preparation required by manufacturer.

At minimum; the rear of HardieBacker250® cement board and the masonry wall must be wiped down to remove all dust.

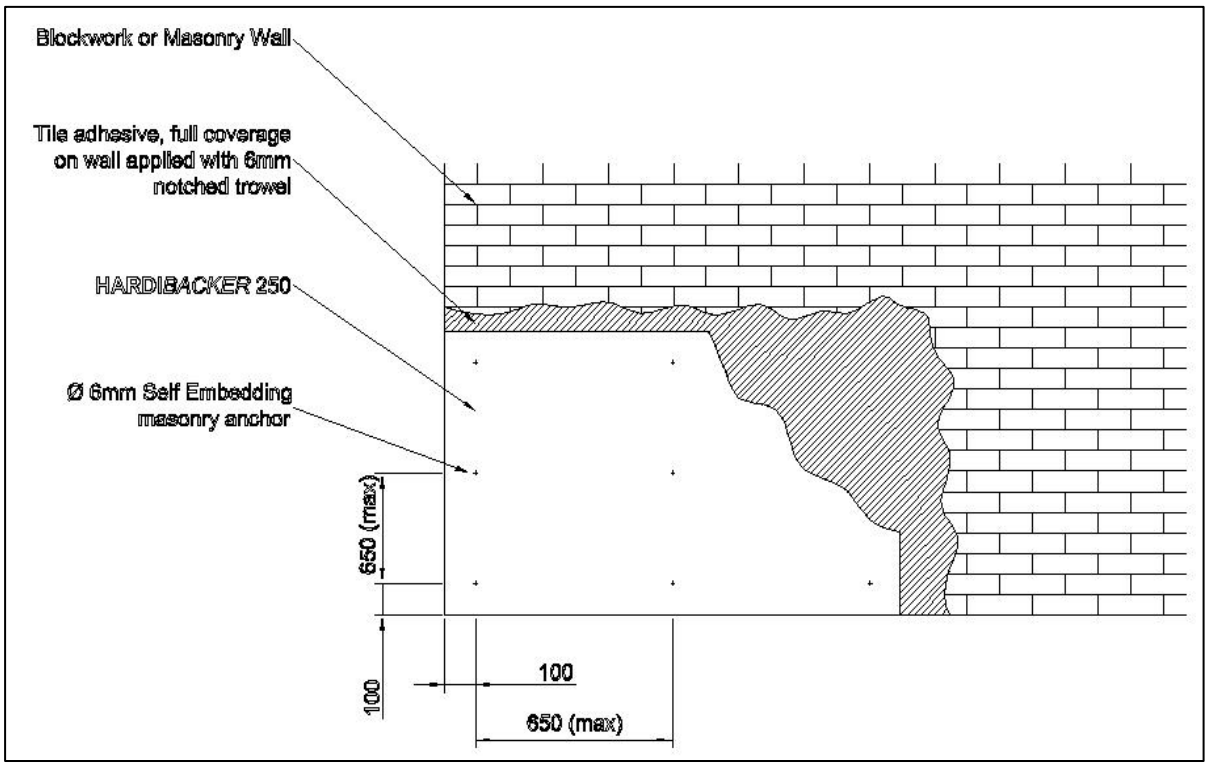
4. INSTALLATION ON MASONRY WALLS

Ensure wall is sound, clean and ready to receive **Hardie**Backer250® cement board.

Adhere **Hardie**Backer250® cement board to the masonry walling using tile adhesive. Apply tile adhesive to masonry walls using a 6mm notched trowel. The tile adhesive must fully support **Hardie**Backer250® cement board and the **Hardie**Backer250® cement board is firmly pressed into the tile adhesive. The masonry anchors are immediately fixed through the board into the masonry walls holding the sheeting in place. Refer figure 1 for details.

Note: Do not dot and dab tile adhesive.

Figure 1.



5. INSTALLATION AND DRY LINING

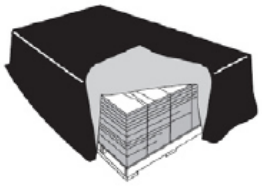
Where it is practical, all existing old dry lining should be removed as it has potential to fail further. Where it's not feasible, you can install **Hardie**Backer250® cement board on existing gypsum boards. Follow the standard Fixing Guide, but use countersunk stainless steel/brass screws 50 mm long and 8-10 mm diameter head to attach **Hardie**Backer® cement boards directly through the plasterboard to the wooden studs behind. The fixings should be as per the normal **Hardie**Backer® 500 centres, in other words 400mm across and 200mm up. Please note: The use of adhesive to fix **Hardie**Backer® cement board to plasterboard on its own without mechanical fixings is not recommended or warranted.

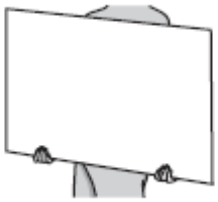
6. FURTHER INFORMATION

For further information please contact James Hardie at info.europe@jameshardie.com, or refer to current James Hardie® Fixing Guide for complete installations on installing **Hardie**Backer® Cement Board.

7. HANDLING AND STORAGE

Store flat and keep dry prior to installing.
Carry board on edge.





James Hardie Recommended Cutting Practices	
Outdoors 1. Position cutting station so that wind will blow dust away from user or others in working area. 2. Use one of the following methods based on the required cutting rate: **Best** Score and Snap Shears (Pneumatic or Handheld) **Better** Dust reducing circular saw equipped with HardieBlade® saw blade and HEPA vacuum extraction **Good** Dust reducing circular saw with HardieBlade® saw blade	**Indoors** • Cut only using score and snap, or shears (manual, electronic or pneumatic). • Position cutting station in a well ventilated area. • NEVER use a power saw indoors • NEVER use a circular saw blade that does not carry the HardieBlade® logo • NEVER dry sweep – Use water suppression or HEPA-vacuum
Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best"-level cutting methods where feasible	
NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.co.uk to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.	
WARNING AVOID BREATHING SILICA DU ST James Hardie® products contain respirable crystalline silica, which is considered by IARC to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation, use a fibre cement shear for cutting or, use score and snap technique. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheet available at www.jameshardie.co.uk or by e-mailing to info.europe@jameshardie.com. FAILURE TO ADHERE TO OUR WARNING S, MSDS, AND IN STALLATION IN STRUCTIONS MAY LEAD TO SERIOUS PERSONAL IN JURY OR DE ATH. James Hardie Europe B.V. Atrium Building, 8th floor, Strawinskylaan 3077, 1077 ZX Amsterdam, the Netherlands	

JamesHardie

MOULD BLOCK TECHNOLOGY

For further information on **Hardie**Backer® cement board please visit our website: www.jameshardie.co.uk