FIXING GUIDE

HardieBacker™ cement board is a unique, cement based, water resistant tile backerboard that can be used on walls, floors and worktops. It will keep your tiles just where you want them. **Hardie**Backer™ cement board with MouldBlock™ Technology provides superior moisture and mould resistance. Tried and tested in millions of homes worldwide, **Hardie**Backer™ cement board has a 10 year limited guarantee, and is easy to cut and install.

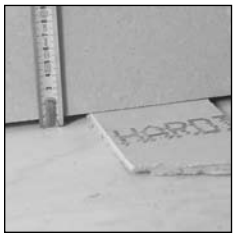
This document will show you step-by-step how to install **Hardie**Backer™ 500 cement board on walls.

For information relating to construction requirements refer to local building regulations.

TIPS BEFORE YOU BEGIN

Preparing the substrate

Ensure that you have all the right equipment before starting your project. i.e. **Hardie**Backer™ score-and-snap-knife or **Hardie**Blade™, good-quality mastic, bucket, ruler, spatula, Fibatape, tile adhesive, 6mm notched trowel, James Hardie® Backer-on screws and screwdriver/ 30mm galvanised roof nails and hammer, sponge, pencil, H&SE approved respirator and PPE.



Floors and adjoining walls

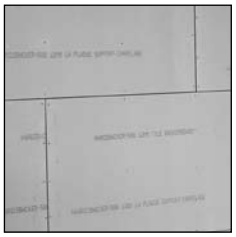
Sheets should be 6mm above the finished floor surface to allow for any settling of the frame or movement. Sheets should also have a 6mm gap from sheet face of adjacent walls.

Foundation

Ensure wall framing is straight as **Hardie**Backer™ cement board will not correct un-even studs on a wall. James Hardie recommends a maximum of 3mm in 4m deviation. Framing should be at no more than 400 mm centres.

Cutting the sheets – score and snap

Sheets are easily cut using **Hardie**Backer™ score-and-snap knife. The sheets are scored 6 times to create a groove of 3-4mm, the board is then snapped upwards at the score and snap line.



Laying the sheets out

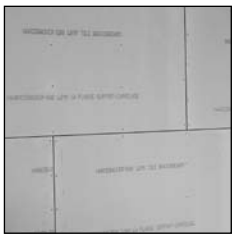
Prior to installation take time to plan your sheet layout. Sheets should be laid in a brickwork pattern.

Areas exposed to water

When **Hardie**Backer™ cement board is installed behind showers you should install a PVC membrane sheet to assist in the prevention of water ingress. Corners of walls and penetrations should also be flashed with a PVC flashing or similar.

INSTALLATION STEPS

Step 1.
Fixing sheets
Sheets are nailed to each stud at 200 mm centres. Fixings are 15 mm from edges and 50 mm from corners of sheets. Fixings for timber studs can be either James Hardie® backer-on screws or 30 mm galvanized roofing nails.



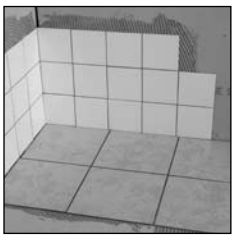
Step 2.
Subsequent sheets – layout
A quick tip may be to use the off cut from the last board on a wall to begin the next sheeting of boards.

Step 3.
Preparing to joint sheets
Wipe down boards with damp sponge to remove site dust.

Step 4.
Sheet jointing and taping
The joints are then jointed and reinforced to provide a more consistent substrate. Apply tile adhesive to joints of **Hardie**Backer™ cement board with a spatula then embed 50 mm James Hardie® alkaline resistant FibaTape into tile adhesive**.**

Step 5.
Finishing joint
Apply a final layer of tile adhesive feathering joint out.

Step 6.
Finishing floor and wall details
Fill joints between floors and walls with a high-quality wet area silicone sealant.



Step 7.
Ready for tiling
Install tiles as per good building practice, local building regulations and national standards.

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 **Hardie**Blade™ and HEPA vacuum extraction Good • Dust reducing circular saw with **Hardie**Blade™	**Indoors** • Cut only using score and snap, or shears (manual, electric or pneumatic). • Position cutting station in well-ventilated area. • NEVER use a power saw indoors • NEVER use a circular saw blade that does not carry the **Hardie**Blade™ logo • NEVER dry sweep – Use wet suppression or HEPA vacuum **Hardie**Blade™ 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 DUST
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 WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.
James Hardie Europe B.V. Atrium Building, 8th floor, Strawinskylaan 3077, 1077 ZX Amsterdam, the Netherlands

BBA BRITISH BOARD OF AGRÉMENT CERTIFICATE No 04/4100 CE

JamesHardie®

MOULD BLOCK TECHNOLOGY

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

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