

PLASTERERS MANUAL

"When all else fails read the instructions"

1st EDITION 2008

SECTION D



SECTION D - PLASTERER

D1 General Notes

There are three basic methods finishing ecobrick walls internally. These can be summarised as follows.

1. Render and Plaster Setting
2. Dry Lining
3. Single Coat Plaster Sets

There is no special requirements for rendering on ecobrick walls other than ensuring the bricks are not excessively wet prior to proceeding.

Normal render and set are used.

If the walls are excessively wet, such as after rain, then rendering should be delayed until the wall dries, to a suitable level. This will typically take between 7 to 14 days depending on the degree of saturation.

A wet ecobrick has a dark dull grey appearance and feels quite heavy when picked up. Do not plaster a wet ecobrick but allow sufficient time for the bricks to dry out before plastering. [Drying time will depend on ambient temperature conditions and could be up to 7 days]

The bricks will not deteriorate but applying cement based mortars and renders to wet bricks will cause drummy plaster or plaster to fall off a wall once the bricks dry out.

D2 Internal Walls

D2.1 Render & Plaster Set

D2.1.1 Render

Preparing an ecobrick wall for render is no different to any other brick wall.

The thickness of the finished float coat (render) should be normally 10mm thick. The mortar cement/lime/sand ratio should be no less than 1.1.6 and no weaker than 1.1.8.

The render should be finished in the normal manner and allowed to dry under the ambient conditions.

D2.1.2 Plaster Set Finish

Plaster set finish should be applied to the float coat after it has reached its initial drying (4-7 days) as in normal practice.

The plaster shall be a lime/plaster mix. Lime putty/hardwall plaster mix should not be less than a 50/50 ratio.

All walls should have sufficient trowelling to provide a satisfactory surface finish and all work should be completed in a fair accepted industry standard.

D2.1.3 Wet Areas

All rendering to the shower recesses should be as in normal practice using a 5.1.1 ratio render incorporating a waterproofing agent.

Tiling is applied onto the render after sealing with a suitable damp proof course material as in normal practice. Tiling should not be applied directly to the bricks.

D2.2 Dry Lining

D2.2.1 Internal Plasterboard

There are two standard methods of installing the plasterboard as detailed below. Often these methods are combined.

D2.2.2 Masonry Adhesive System

This involves using an adhesive to fix the plasterboard to the wall without any form of mechanical fastening. The adhesive should be applied to the manufacturers recommendations.

D2.2.3 Mechanical Fixing Systems

This involves the use of mechanical fixings to attach the plasterboard to the wall. Both Hilti & Ramset provide special drywall screw system as illustrated. Manufacturers recommendations should be followed.

Once plasterboard is installed the joints between the panels need to be sealed and finished to provide a seamless surface. The procedure for this should be as in standard practice or to the plasterboard manufacturers recommendations.

Light Duty Fixing - Ramset 	
General	Wall Mate WMZ
Diameter	8mm
Overall Anchor Length	42mm
Screw Gauge	6-7mm
Steel Twist Drill Diameter	Self Drive
Maximum Fasten Thickness	N/A
Load	10kg

D2.2.4 Wet Areas

Special waterproof plasterboard is available for wet areas or fibre cement board may be used.

Tiling is applied directly to the dry lining to the manufacturers recommendations. Tiling should not be applied directly to the bricks.

D2.3 Single Coat Sets

Single set coats can be used with ecobrick being applied in a 2 to 5mm layer. Surface preparation for use are the same as for those recommended for normal render application but applying a suitable bonding and sealing agent such as bondcrete prior to application.

Generally applications should be as per manufacturers recommendations. There are a variety of set coat applications available commercially.



D3 External Walls

D3.1 General

Water-proofing ecobrick bricks is a mandatory requirement when exposed to the weather for single leaf walls and is recommended for the external leaf of cavity wall construction.

In addition to being waterproof, external coatings should be vapour permeable to allow bricks to release moisture to reach equilibrium moisture content.

1. Water Resistant Renders
2. Painting/Sealing
3. Cladding

There are no special requirements for rendering on ecobrick walls other than ensuring the bricks are not excessively wet prior to proceeding.

D3.2 Renders

Rendering can be performed using conventional cement based renders, acrylic based renders or paint finishes. Manufacturers instructions should be followed.

Generally acrylic based renders perform better as they can accommodate normal expansion and contraction of building elements.

ecobrick recommends the render systems provided by Rockcote as an effective external render system as their products are manufactured using sustainable practices.

D3.3 Painting & Sealing

Acrylic based paints can be applied directly to the bricks when being used in applications of minimal exposure to the elements, however a good quality masonry sealant should be used as a primer.

Other alternatives are the use of commercially available sealants such as Sika 65, Sika 70, and Dulux Aquabond to seal bricks in reasonably protected areas, however it should be noted that reapplication will be required at an interval recommended by the manufacturer to remain effective.

D3.4 Cladding

Cladding systems can often provide an attractive architectural finish to the structure. Provided they ensure water tightness most cladding systems are suitable for ecobrick in either single or double skin configuration.

Refer to the manufacturers recommendations for general installation of cladding systems.

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