Cedral Weatherboard
and Operal

Call 01283 722588
Email info@marleyeternit.co.uk
Or visit www.marleyeternit.co.uk

Marley Eternit Lichfield Road Branston Burton upon Trent DE14 3HD
Cedral Weatherboard and Operal

The ideal, low maintenance, rot-free alternative to traditional timber weatherboarding. With the visual appeal of natural timber, simplicity of installation and resistance to rot, Cedral Weatherboard is an attractive, low maintenance alternative to PVCu.

Marley Eternit
Marley Eternit is committed to the cost effective and sustainable manufacture of high quality, high performing facade systems. Marley Eternit’s range of cladding products are manufactured under quality management systems, which meet the requirements of ISO 9001 and environmental systems which comply with the internationally recognised ISO 14001 standard.

• Cedral Weatherboard
• Cedral Click
• Operal

Information for all these products is available on request. Visit www.marleyeternit.co.uk or call 01283 722588.

Cedral Weatherboard
Ideal low maintenance, rot free alternative to timber weatherboarding. Fit in traditional ship-lapped style and with the visual appeal of natural timber, Cedral Weatherboard is an attractive, low maintenance alternative to PVCu.

Operal
This impact resistant, durable and flat cladding is ideal for soffits. Operal is cost effective and easy to fix, and with the same range of colours, performance and maintenance levels as Cedral Weatherboard, it is an ideal cladding partner.

Cedral Click
Cedral Click is the UK’s first fibre cement tongue and groove weatherboard solution. With the same performance benefits and textured surface finish as Cedral Weatherboard, Cedral Click is supplied with a simple ‘Click Clip System’, which makes installation quick and easy.

Fitted in a contemporary flat finish rather than tradition shiplap, Cedral Click is available in seven of our most popular colours: White, Beige, Grey Brown, Grey, Cream White, Slate Grey and Black, which complement the current Cedral Weatherboard image.
Cedral Weatherboard

Product data

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Dimensions

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<td>Weight per board</td>
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Advantages

- Choice of two applications within the range (Click and Lap)
- Resistant to rot, immune to attack by pests and insects
- Stands up to the harshest weather conditions
- No routine maintenance required
- Easy to install
- Range of complementary aluminium trims available
- Use in the same way as wood
- Class 0 and EN 13501-1 fire performance and classified to A2-s1, d0 limited combustibility
- Ideal for use where traditional timber boards might be considered, especially for facades and window and door surrounds
- Can achieve an A+ rating in the BRE’s Green Guide to Specification*
- BBA Certificate No. 06/4299

Colour range

Cedral Weatherboard can be supplied in Natural finish for site painting, or in a range of 19 factory applied solid colours and three woodstain finishes.

Our comprehensive colour range provides an aesthetic option to suit many project requirements.

Cedral Click is available in seven complementary colours. Please see page 6 for further information.

Standards

The technical properties of Cedral Weatherboard are in accordance with the prescriptions of BS EN 12467: 2004, Category A, Class 2.

Manufacture

Cedral Weatherboard is an autoclaved fibre cement plank manufactured from a mixture of cement, organic fillers and water.

* Based on generic rating for autoclaved fibre cement (calcium silicate) cladding (Element ref. 80622071, 806220675, 806220676).
Cedral Weatherboard

Color range

- Natural (unfinished)
  This board is an untreated, natural product suitable for painting/staining on site; it is not a painted color option.

Painted color range

- C00 Natural (unfinished)
- C01 White
- C02 Beige
- C05 Grey
- C06 Grey Green
- C07 Cream White
- C08 Sand Yellow
- C09 Ochre
- C10 Blue Grey
- C11 Beige Yellow
- C12 Lavender Blue
- C14 Atlas Brown
- C15 Dark Grey
- C16 Cevennes Green
- C18 Slate Grey
- C30 Brown
- C33 Red
- C50 Black

Woodstains**
Cedral Weatherboard is available in a range of woodstain shades designed to mimic the appearance of a stained natural wood finish and as such, a variation in colour and shade is part of the effect inherent in the material design. The translucent finish will be accentuated by the effects of ambient light and viewing angle.

Cut edges of Cedral Weatherboard woodstain must be sealed with Luko solution.

Due to the transparent coating, it is not recommended to install Cedral Weatherboard woodstain colours vertically.

- CL102 Pine
- CL104 Light Oak
- CL105 Dark Oak

Availability
Cedral Weatherboard is sold in pallet quantities of 144 planks.
Cedral Click is sold in pallet quantities of 115 planks.
Made to order colours are subject to minimum order quantities and subject to extended lead times.
The other painted colours are available in Cedral Click, subject to an extended lead time.
All painted colours are available in a smooth finish for both Weatherboard and Click.

Aluminium trims
Supplied in colours to match and complement Cedral range.

Touch up paint
Cedral touch up paint is available in 0.5 litre quantities.

For advice, literature and samples Tel 01283 722588 or visit marleyeternit.co.uk

Cedral Weatherboard Trims

A range of aluminium profiles are available in colours to match and complement Cedral Weatherboard. See opposite for full range of colours.

Available in 3m lengths.

- External corner
  This universal trim can be used to provide protection on external corners and for stop profile applications.

- Internal corner
  To finish the corner where Cedral meets on an internal corner forming a seal between the trim and the corner.

- Start profile
  Used to start a cladding run with a lip to cover the first batten.

- End profile
  Hides any sharp corners and protects the Cedral Weatherboard edges from wear and tear.

- Connection profile
  End trim to finish Cedral Weatherboard when used as a single piece on a window reveal or soffit.

- Joint profile vertical
  Used as a jointing detail.

- Perforated closure
  Used to protect against pest infestation and debris.

- External corner junction
  Used as a corner joining piece. Only available in black.
Cedral Weatherboard
General fixing information

**Cutting**
The method of cutting is dependent on the amount there is to be done. It is possible to cut the board with a handsaw, an electric jigsaw or a circular saw.

*Note: Cutting and drilling must take place in a dry environment.*

**Hacksaw**
This method requires a hardened point saw and is recommended for small amounts of cutting.

**Guillotine**
Cedral Weatherboard can be cut with a specially manufactured guillotine.

**Hand held circular saw**
Used with a tungsten tipped blade of 36 teeth on a 180mm diameter blade is recommended for moderate amounts of cutting. Also with this method, cutting from the back of the board is advisable as the saw guide leaves marks across the board surface. A trial cut is suggested.

**A diamond-dusted blade**
Using a hand held circular saw gives the best results and is the recommended method of cutting large quantities. The grade of dust blade is recommended for moderate amounts of cutting. Also with this method, cutting from the back of the board is advisable as the saw guide leaves marks across the board surface. A trial cut is suggested.

**Screwing**
Screw fixing to the support structure can be achieved without pre-drilling when the nails are at least 50mm from the end of the board. For nails closer than 50mm to the end, nail positions need pre-drilling with a 3mm drill. Normal HSS drill bits can be used but they will need regular sharpening. Nails should be stainless steel ring shank, minimum size 2.8 x 45mm with 7-10mm head.

**Pneumatic nailing**
Cedral Weatherboard can be pneumatically nailed. There is a large selection of guns on the market. Stainless steel fixing is preferable, as they last as long as the board. The nail length should be 50mm and be 2.8mm dia. A ring Shank nail is preferred and has a full round head of 7mm dia. The type of gun nail which has a narrow head (The nail looks more like a “T” section) is not acceptable. Nails with a “C” shaped head are acceptable but should be minimum 7mm-dia head. Trial nailing should be conducted to set the depth of the fixing, and how close to the edge of the board nails can be placed.

Any pneumatic gun which is being considered, must be adjustable otherwise the nails could either be fired right through the board or left proud of the face of the board (check with manufacturer).

**Scoring and breaking**
Cedral Weatherboard can also be scored on both sides with a Stanley knife and then broken over a hard edge. This process is only used for edges which are butting up to corner profiles or brickwork. Not recommended for mitre corners as the breaks is not as clean as a saw cut.

**Health and safety aspects**
Dust can be released while the sheets are being processed which can irritate airways and eyes. It is recommended that a dust mask and safety goggles be worn. Appropriate dust extraction or proper ventilation is to be provided depending on the room in which the work is being carried out or the equipment being used. Long-term exposure to dust can be harmful to health.

**Nailing**
By hand
The board can be hand nailed without pre-drilling when the nails are at least 50mm from the end of the board. For nails closer than 50mm to the end, nail positions need pre-drilling with a 3mm drill. Normal HSS drill bits can be used but they will need regular sharpening. Nails should be stainless steel ring Shank, minimum size 2.8 x 45mm with 7-10mm head.

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Cedral Weatherboard
Traditional horizontal ship lap installation

**01**

**Installing Cedral Weatherboard**
Cedral Weatherboard needs to be fixed to vertical timber battens (preservative treated and planed on 2 sides) at least 50mm wide spaced at a maximum of 600mm across the elevation. The Cedral Weatherboard should be fixed to at least three battens; if it is only fixed to two then the batten spacing should be reduced to 400mm.

A minimum 30mm clear cavity must be provided behind the Cedral Weatherboard with a 10mm opening at the base, head and at the window and door heads and cills.

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**02**

**Battens for Cedral Weatherboard**
Each plank must be fixed at least once to every support. The end of every plank must also coincide with a support. Where specified, install vapour barrier or breather membrane over the wall or framework behind the timber studs. Installation begins at the bottom of the facade, where a start profile is fixed first. This is overlapped by the first plank, which starts the layering of the planks. Allow at least 150mm between bottom edge of Cedral Weatherboard and the ground. Fixing is done through the upper edges. There is no side overlap, the strips being simply loose butted against one another, and the joint must coincide with a timber support.

A strip of black polyethylene soaker should be applied under the vertical joints to protect the batten.

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**03**

**Overlapping corner**
This is when the board of one side overlaps the end of the board on the other side. There will always be one end of board showing with this method. These ends need to be decorated to match the finish on Cedral Weatherboard. The transverse cuts of the board at the corner positions will not be perpendicular with the sides of the boards.

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**04**

**Mitered corner**
To form the mitre the boards have to be cut 23mm longer on the bottom edge, 13mm longer on the top edge than the dimension to the corner of the support battens. This cut is also cut at an angle of 44° through the thickness of the board (suggest to mark board at 45° and under-cut). The above only works on a true 90° corner other degrees of corners will be by trial and error.

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For advice, literature and samples Tel 01283 722588 or visit marleyeternit.co.uk
Cedral Click Installation

Cedral Click components

Fixing clip and special screw fixing
Clip and screw are made of stainless steel 304 (A2).
The clip has the following dimensions: 60 x 40mm with hooks matched to the Cedral Click requirements.
The screw has the following dimensions: 3.9 x 30mm with screw head suited for fastening the clip. This means a flat head with partially flat lower side.

Start profile
Used at the base of the external wall. Installed absolutely level to ensure installation of Cedral Click panels remains perfectly parallel.

Internal corner
To finish the corner where Cedral Click meets on an internal corner forming a seal between the trim and the corner.

External corner junction
Used as a corner joining piece. Only available in black.

External corner profile
This profile can be used both for detailing of external corner joints and when cut to suit for finishing the vertical reveals of window surrounds.

Connection profile
End trim to finish Cedral Click when used as a single piece on a window reveal or soffit.

Window lintel profile
Used to finish above the window and to support the next course of Cedral Click.

Mushroom head screws
Used when fixing Cedral Click vertically, to fix the last panel. Screws are colour matched to Cedral Click colour.

General fixing information

> Cedral Click tongue and groove panels are designed to be secret fixed to a ventilated, timber batten substrate.
> Each section is fixed with a series of specially designed, rapidly installed clips, that allow positive ‘click’ on assembly (and click off, if required).
> Cutting Cedral Click planks to size is quick and simple using hand tools.
> A full range of accessories allow weatherproof detailing at the base of the elevation, at internal and external corner joints and around windows.
> A range of accessories allows weatherproof detailing at the base of the elevation, at corners, around windows, soffits and other areas.
> Full fixing details are available on request.
Cedral Click Installation

01

Base of wall
Assembly starts at the bottom of the outside wall with the purpose designed Cedral Click start profile. The start profile must be perfectly level. Use appropriate countersunk head screws so the screw head does not block the placement of the first Cedral Click. The first Cedral Click is then fitted on to the start profile and fixed with clips on every support. Then the next Cedral Click is put on the first one.

02

Continued installation
The Cedral Click boards are placed with the ends against each other and always on top of an underlying supporting batten. Not only behind the joints but the entire wooden supporting laths are protected by a joint sealing strip with sufficient stiffness. Because the joint sealing strip is not exposed to light, a black polyethylene (PE) 0.5 mm-thick joint sealing strip is sufficient. If the joint sealing strip is exposed to light, a UV-resistant material such as EPDM must be used.

03

Fixing the last Cedral Click panel
At the top of the facade there are 2 options for fixing the last Cedral Click unit:

- If the facade finishes with a whole Cedral Click it can be fixed with clips, as detailed in number 2.
- If the facade finishes requiring a trimmed Cedral Click it should be fixed with coloured mushroom head screws.

The screws must be inserted perpendicular to the panel surface using an electric drill with a high quality bit suitable for the type of screw head.

The screw head should ultimately be covered by the soffit or eaves detailing.

04

Window detailing and external corner
The vertical reveal sides of a window can be finished with the Cedral Click external corner profile. At the window head (lintel), the lintel profile can be used. This lintel profile can be used with whole Cedral Click boards or with cut boards. Holes in the lower part of the back of the profile prevent water pooling in the profile.

05

Internal corner
To finish the corner where Cedral Click meets on an internal corner forming a seal between the trim and the corner.

06

Replacing damaged panels
A damaged plank can be replaced without removing the whole facade. The damaged plank should be carefully removed without damaging the other boards. The new board is cut down at the top by 4 mm along its length. It can then be clicked back into position in the facade. To prevent movement of the new board, it can be secured by using glue dabs on the supporting battens. Bonding must always take place in accordance with the conditions of the supplier of the bonding system and under his supervision and guarantee conditions.
Operal is an impact resistant, durable and flat cladding which is ideal for soffits. It is cost effective and easy to fix.

**Operal Product data**

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<td>Fully frost resistant</td>
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<td>Reaction to fire</td>
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**Advantages**
- Lightweight and easy to fix
- Easy to work on site
- Class 0 and EN 13501-1 fire performance and classified to A2-s1, d0 limited combustibility
- No routine maintenance required
- Can achieve an A+ rating in the BRE’s Green Guide to Specification*
- BBA Certificate No. 06/4355
- Ideal for soffits

**Standards**
The technical properties of Operal sheets are in accordance with the prescriptions of BS EN 12467: 2004, Category A, Class 3.

**Manufacture**
Operal is an autoclaved fibre cement sheet manufactured from a mixture of cement, organic fibres, fillers and water.

* Based on generic rating for autoclaved fibre cement single sheet (Element ref. 8062040, 80620402, 80620417, 80620418).
Fixing overview
Operal is easy to install and can be nailed or screwed to timber battens.

For small applications (e.g. fascias, soffits) the board can be installed with 3mm joints, but where large boards are being used, alignment is easier if an 8mm joint is maintained.

Timber protection
Timber battens can be protected against decay and insect attack in accordance with BS 5268: Part 5.

Batten sizing
Screws
Panel joints min. 100 x 38mm Intermediate min. 50 x 38mm
Larger battens are required if fixings are more than 25mm from the vertical edge.

Horizontal joint alternatives
Horizontal joints may be formed using horizontal joint profiles Type HJP. Alternatively, an open joint detail may be used.

High wind loadings or exceptional impact requirements
Should wind loading exceed 1.5 kN/m², please consult the Technical Advisory Service.

Surface mounted features
Where other building features, i.e. signs, gutters, canopies etc. are to be fixed then additional batten work should be included and clearance holes must be provided through the cladding. Under no circumstances should cladding panels receive any additional structural loads.

Screw holes
The pre-drilled hole dimensions for the panels should be 5mm. However, the Operal screw will cut its own hole.

Fixing centres
Dimensions (mm) screw fixing nail fixing
A 20    20
B 50    50
C 600   600
D 600   400

Maximum distance between battens 600mm
Minimum size of battens at the vertical joint 100 x 38mm
      at the central support 50 x 38mm

Maximum centres for 1.5 kN/m² windload

Vertical joint and intermediate panel fixing
Marley Eternit supply black flexible jointing strips to protect and close vertical joints.

EFPSS 36mm – standard panel joints
EFPSS 60mm – corner joints

Note: To ensure an even surface, place an EFPSS 36 strip behind intermediate panel fixing.
Cedral Weatherboard and Operal

Installation

Typical fascia and soffit details

Corners are created using flat sheets and the appropriate jointing strips and corner profiles.

Gutter brackets should be fixed back through Operal and timber support/trim using pre-drilled oversized holes with a minimum of 40mm between fixing centres.

Typical soffit and fascia with pitched roof

Typical soffit and fascia with flat roof

Finishes, maintenance and handling

Finishes

Cedral Weatherboard is available in 19 factory applied solid colours and 3 woodstain finishes. The Natural Cedral Weatherboard is designed as a base board to be finished on site.

The Natural is self-coloured beige, with shading resulting from the natural properties of the constituents. Natural Cedral Weatherboard is designed to be decorated or sealed with a clear water repellent sealer. It can be painted or stained to almost any colour, the restriction being on the paints and stains available. Solvent based paints and stains should not be used, as there is a reaction between the cement board and the stain. The recommended paint/stain is an acrylic water based product.

Cut edges of Cedral Weatherboard woodstain must be sealed with Luko solution. Vertical installation is not recommended for Cedral Weatherboard woodstain.

Maintenance

For minor soiling, washing with a mild household detergent or soft soap solution followed by rinsing with clear water is sufficient to maintain its appearance and colour.

The period to first repaint Cedral Weatherboard to maintain its appearance is approximately 10 years dependent upon location. Touch up paint is available in 0.5 litre quantities.

Storage and handling

Care should be taken at all times when handling Cedral Weatherboard on the flat as it can break. While Cedral Weatherboard is stored on the flat, it should be fully supported along its full length on purpose designed pallets. Manual handling is best carried out with the boards carried on their sides. When a single person is carrying a board, it should be turned on to its side before being lifted off the stack, and then the handler must keep their hands as far apart as possible to provide maximum support for the board.

Cedral Weatherboard should be stored on the pallets on which they are supplied and preferably inside. The temporary transportation hoods should be removed to release any trapped moisture and the pack recovered with an opaque tarpaulin.

The boards should be protected from mud staining.

Efflorescence

Efflorescence, or lime bloom, is an occasional phenomenon that affects all cement-based products. It is temporary and in no way detrimental to the performance of the product.

The duration of the efflorescence depends on the quality and type of deposit and on prevailing conditions. Water, the element that is initially responsible for its appearance, is also largely responsible for its disappearance. Rainwater, being slightly acidic, not only dissolves the deposit, but also mechanically removes it.

Although it is impossible to state exactly how long efflorescence will remain, a period of suitably bad weather is usually sufficient to restore the Cedral Weatherboard to an even appearance.

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Technical toolkit
tools and assets that make design and specification as straightforward as possible

> NBS
A tool to produce instant NBS clauses that meet the recommendations of British Standards and Codes of Practice: marleyeternit.co.uk/specrite

> Colour selector tool
This application allows you to find the perfect colour combination of boards and trims: www.weatherboard.co.uk

> CAD details
Access to over 2,000 CAD drawings illustrating how specific cladding details can be formed: marleyeternit.co.uk/cad

> Estimator
Tool designed to create a complete bill of materials for your project, based on a wide range of building and roof types: marleyeternit.co.uk/estimator

> Plank calculator
A tool that works out the number of planks required based on the size of your project

> BIM
BIM Space is a set of free to download Building Information Modelling (BIM) objects that provide a standard range of build ups for our fibre cement roof slates, clay Plain tiles and facades (EQUITONE, Operal and Cedral): marleyeternit.co.uk/bim

Resources
tools and assets that make design and specification as straightforward as possible

> Fixing instructions
Comprehensive sitework, fixing and installation literature and videos: marleyeternit.co.uk/resources

> Literature
All current product and technical literature can be downloaded: marleyeternit.co.uk/downloads

> CPDs
A tool to produce instant NBS clauses that meet the recommendations of British Standards and Codes of Practice: marleyeternit.co.uk/specrite

> Samples
Samples are available for all of the products featured in this brochure and available to order from: marleyeternit.co.uk/sample

> Stockist information
To find details for stockists of Marley Eternit products, visit: marleyeternit.co.uk/stockists

For advice, literature and samples Tel 01283 722588 or visit marleyeternit.co.uk
Services

Getting our knowledge to you and your project smoothly and efficiently

Customer services
Marley Eternit is committed to providing outstanding customer care and is staffed by experienced personnel:
Tel 01283 722894  E-mail info@marleyeternit.co.uk
To find your nearest stockist, please visit:
www.marleyeternit.co.uk/resources

Technical Advisory Service
Specifiers require prompt, knowledgeable and detailed responses to a vast range of queries covering everything from the embodied energy of a typical roof tile, to the different ventilation options available.

Our Technical Advisory Service is staffed by a qualified team with specialist knowledge not only of all Marley Eternit products, but also crucially, how those systems integrate with other roofing components and comply with Building Regulations, Health and Safety, environmental and other critical roofing criteria.
Tel 01283 722588  E-mail info@marleyeternit.co.uk
marleyeternit.co.uk

Sustainability and standards
Credits, credentials and clarity of information

Fire classification
All of the products within this Cedral Weatherboard and Opereal brochure meet fire classifications A2-s1, d0 to EN 13501-1

Quality standard
All Marley Eternit’s factories in the UK are ISO 9001, 14001 and ISO OHSAS 18001 accredited. They achieve the highest standards in quality, health and safety and the environment.

CE Marking
All of our products covered by an EN Standard carry an appropriate CE Mark. This means that our products meet the required safety standards and have a guaranteed level of quality.

Environmental Product declaration
To provide product specific environmental data, our products have Environmental product declarations (EPDs).

For advice, literature and samples Tel 01283 722588 or visit marleyeternit.co.uk
This publication is based on the latest data available at the time of printing. Due to product changes, improvements and other factors, the Company reserves the right to change or withdraw information contained herein without prior notice. For specific applications, users should refer to the Technical Advisory Service and relevant Standards and Codes of Practice for guidance. The photography shown in the document should not be taken as recommendations of good practice. The printing process restricts the exact representation of colours. For true colour reference, please request product samples.