

Your Authorised Tegral Stockist:
Patrick Lynch Roof Cladding

The largest stockist of
steel roof sheeting and cladding in Ireland

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Cedral & Operal



Cedral Weatherboard & Operal

Tegral's Cedral Weatherboard and Operal ranges complement each other perfectly to offer creative, integrated and cost-effective external cladding solutions for buildings.

Sharing the same colour range, but offering different textures and module shapes and sizes, woodgrained Cedral Weatherboard planks can be used to contrast the flat, lightly textured surface of Operal.

Equally, both can be used on their own merits, with Operal being easy to work and handle, and ideal for both residential and larger cladding projects where a flat, clean and crisp finish is needed.

Cedral Weatherboard is an ideal low maintenance alternative to timber planking in residential projects without any loss of visual impact.



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↑ Operal

This impact resistant, durable and flat cladding is ideal across a range of applications from a residential soffit to a rainscreen cladding skin for a low rise commercial unit.

Operal is cost effective and easy to fix, and with the same range of colours, performance and maintenance levels as Cedral, is an ideal cladding partner.

With a colour range that complements Cedral, Operal offers integrated solutions for external cladding design.

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↑ Cedral Weatherboard

Cedral Weatherboard is 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.

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

Our bespoke colour service allows housebuilders and specifiers to maximise their aesthetic options by offering an extensive range of factory-approved paint options to meet project requirements.

With a colour range that complements Operal, Cedral offers integrated solutions for external cladding design.

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Cedral Weatherboard

product data



Advantages

- Excellent aesthetics
- Resistant to rot and maintains its looks
- Low maintenance
- Easy to install
- Use in the same way as wood
- Stands up to the harshest weather conditions
- Class 0 fire performance
- Immune to attack by pests and insects
- Cedral Weatherboard is ideal for use where traditional timber boards might be considered especially for facades and window and door surrounds
- IAB Certificate No. 07/0292
- BBA Certificate No. 06/4299



Domestic

In housebuilding, the material enables specifiers to achieve a heritage-style look, adding to the kerb appeal. In conservation areas where plastic materials are often out of the question, the convincing timber-like appearance of Cedral Weatherboard is designed to meet strict planning requirements.

Commercial

Typically, Cedral Weatherboard can be used to recreate or achieve a weatherboarding-type or 'colonial' architectural effect such as that often found in regional vernacular architecture.

It can also be used to bring a contrasting planking effect to predominantly brick-clad or flat-clad elevations. The material can be employed on small or large scale areas of a building to break up the repetition of elements, pick up material themes, or create subtle interplays of colour and shape. Not only does Cedral Weatherboard satisfy popular, current life-cycle costing strategies, it also solves the maintenance problem associated with comparable materials.



Refurbishment

In Local Authority housing, Cedral Weatherboard can be used to add value to new build schemes; or for refurbishment purposes, where there is a requirement for an effective form of overcladding or remedial cladding to replace equivalent but defective materials.

Cedral Weatherboard can be used to replace like materials such as timber planking, PVCu sidings and similar materials. It can add interest to gable walls; adorn dormers; clad window areas that have become an eyesore; give garages a make-over; beautify barn conversions. The use of the material is limited only by your imagination.

Standards

The technical properties of Cedral Weatherboard sheets 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.

Availability

In order to give the best possible service, the most popular colours are kept in stock. Other colours are available on longer lead times.

Dimensions

Length	3600mm
Width	190mm
Thickness	10mm
Weight/board	9.9kg

Properties (air dry)

Installed weight	17.1kg/m ²
Density	1300kg/m ³
Bending strength:	
Longitudinal	23N/mm ²
Transverse	11N/mm ²
Modulus of elasticity:	
Longitudinal	7500N/mm ²
Transverse	5500N/mm ²
Expansion from	
dry air to saturated	1.75mm/m
Thermal conductivity	0.21W/mK
Reaction to fire:	
Building Regulations	Class 0
EN 13501-1	A2-s1-d0

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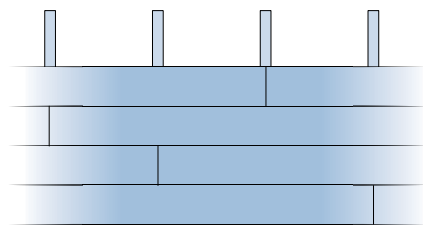
Cedral Weatherboard detailing

Fixing

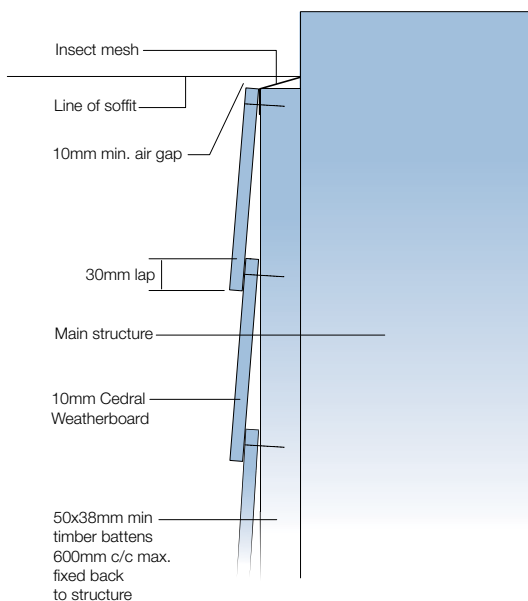
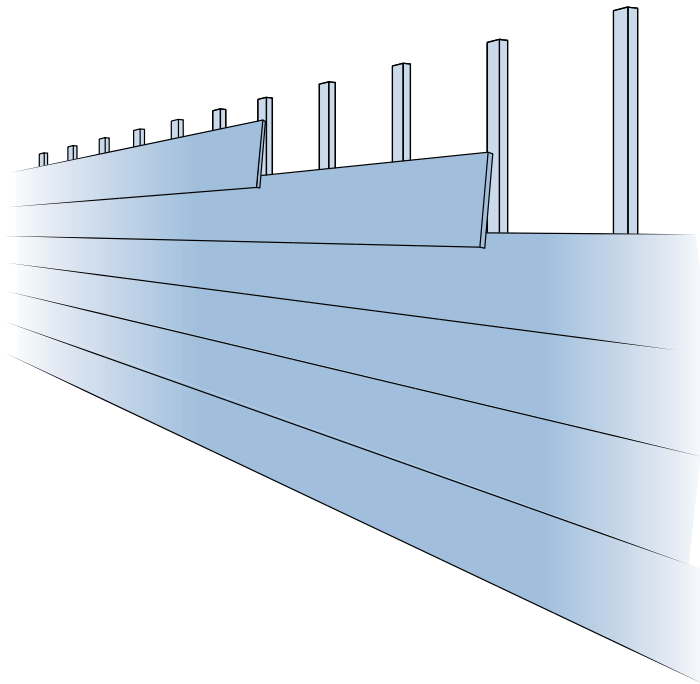
Cedral Weatherboard is fixed to timber battens in a 'ship lap' configuration using nails or screws.

It is fixed in the same way as timber weatherboarding.

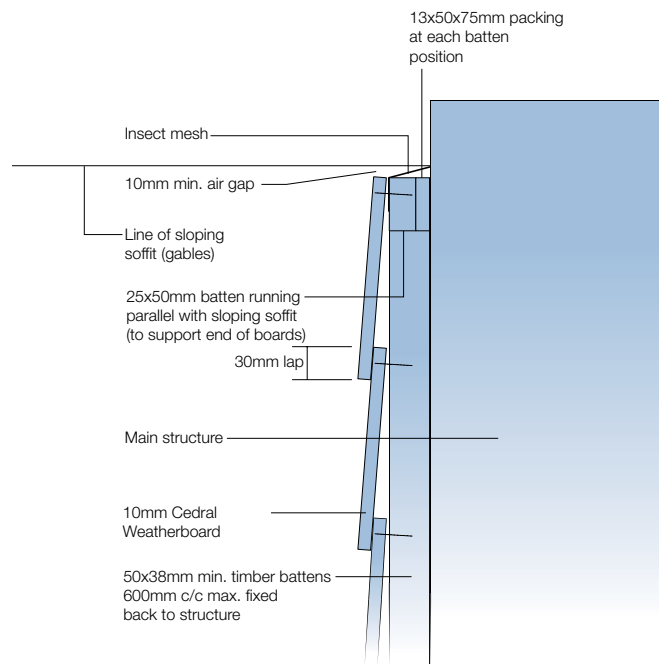
Fixings to be positioned 20mm from the top edge of the plank.



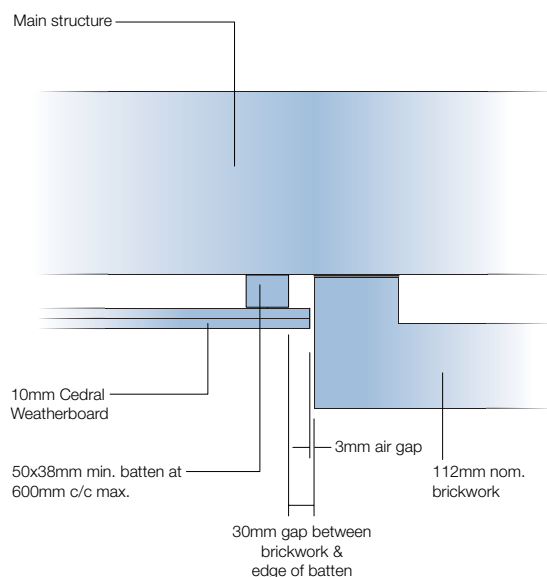
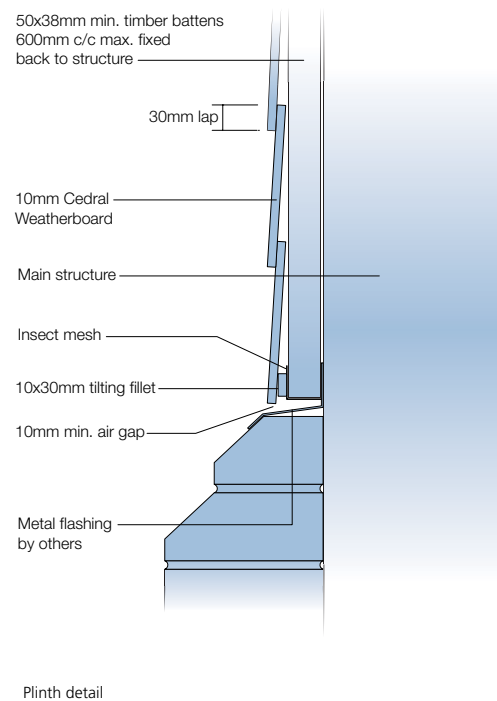
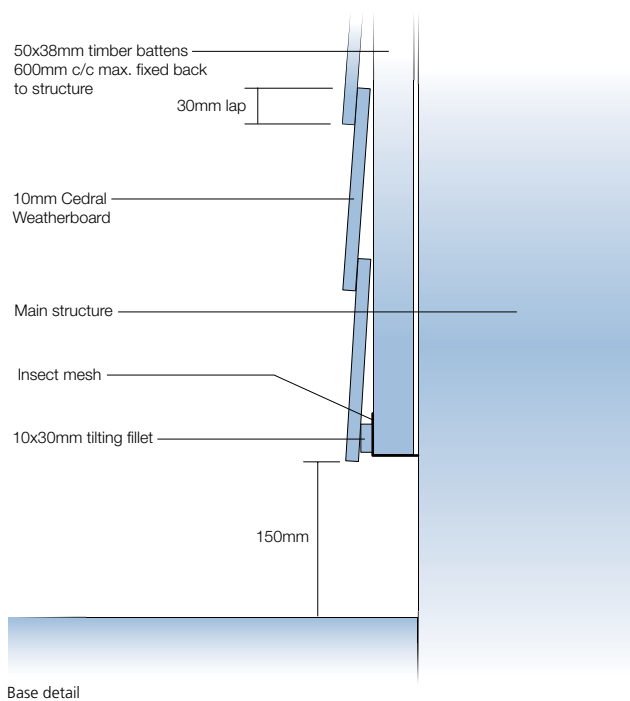
Joint detail



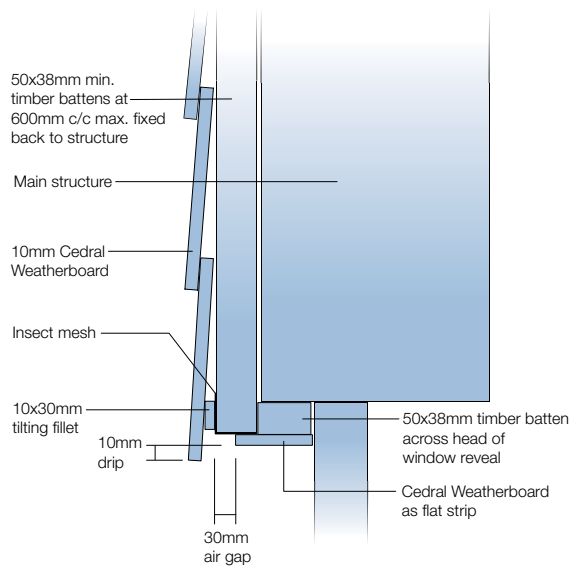
Soffit detail



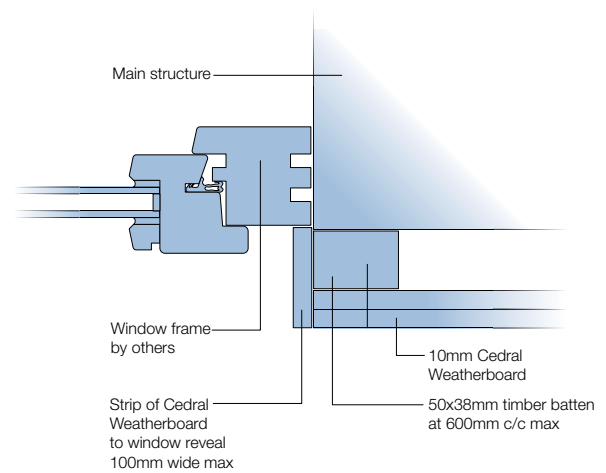
Sloping soffit detail



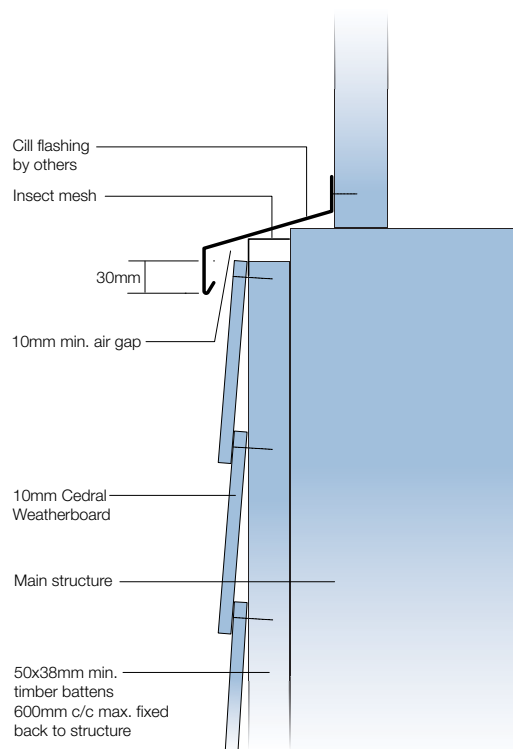
Cedral Weatherboard detailing



Window head detail



Window jamb detail



Window cill detail

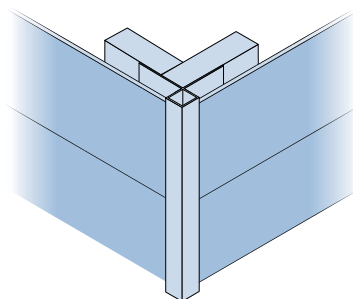
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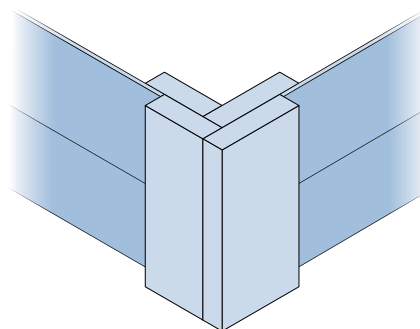
Corners

There are two corner detailing options:

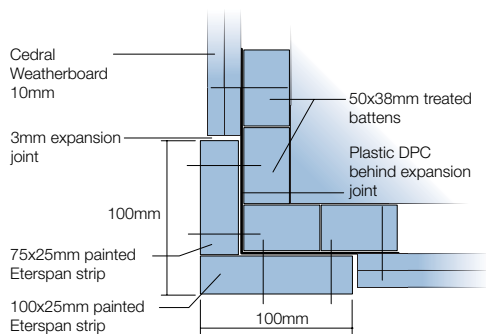
1. Eterspan fibre cement corners
75x25x3000mm
100x25x3000mm
2. Metal (internal and external).
30x30x2500mm



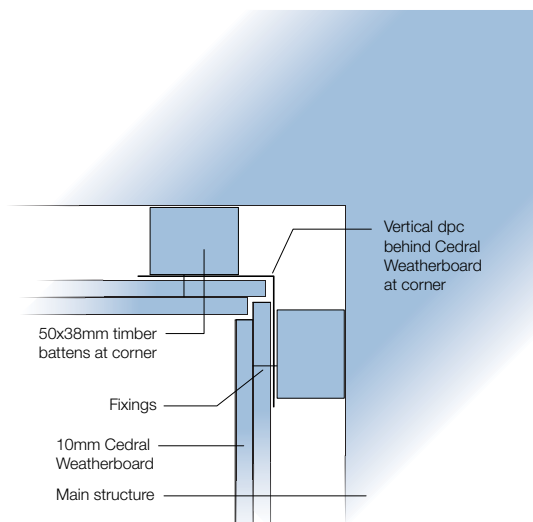
Typical metal detail



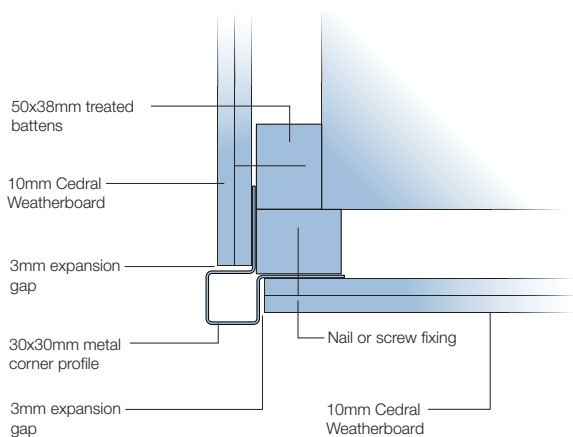
Typical fibre-cement corner detail



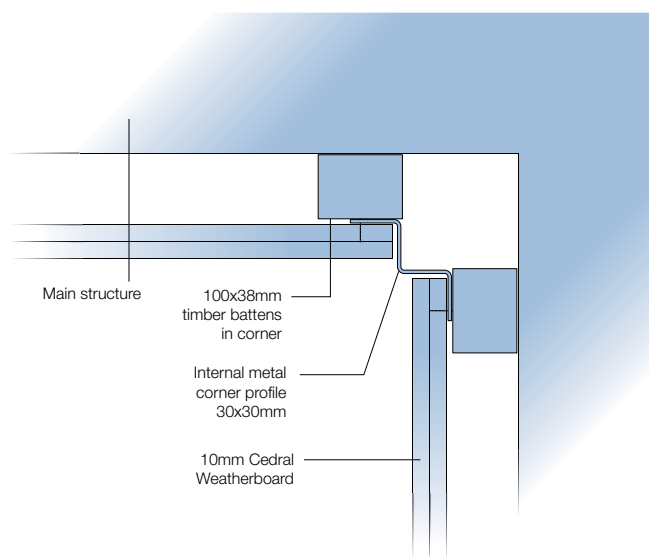
Eterspan external corner detail



Internal corner detail



Metal external corner detail



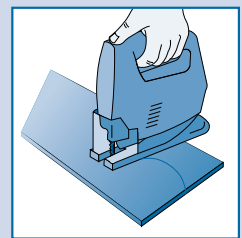
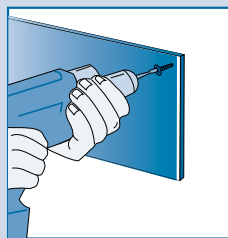
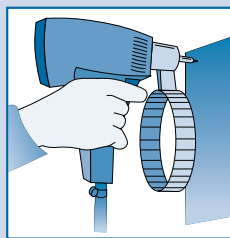
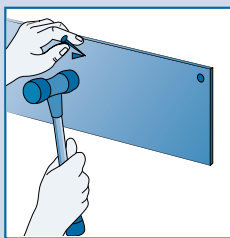
Metal internal corner detail

Cedral Weatherboard fixing information

Cutting and handling

- Use either a fine tooth hand saw or a power saw. Make sure the blade is tungsten carbide tipped or diamond dusted.
- Always support both ends of the board during cutting, to avoid breakaway.
- If using a power tool, wear safety glasses and an approved dust mask or respirator.

Preparation



- Ensure a straight, flat wall surface.
- Use a secure framing system, which meets all relevant Building Regulations. We advise you to nail or screw the Cedral Weatherboards to vertical battens. These should be at least 50mm wide, spaced at a maximum 600mm intervals.

Fixings

Recommended nails:
stainless steel ring shank 2.8x50mm with 7-10mm dia. head.

Stainless steel screws:
minimum 4.5x50mm

Fixing distance from edges:
Vertical edges 15mm
Horizontal edges 20mm

Corners and trims

For the neatest detail at corners, Cedral Weatherboard can be close mitred. Alternatively, they can be finished using either fibre cement two-piece corner trims. Other metal or plastic trims, or wooden corner posts can also be used.

Start installation with inside and outside corner trim pieces. Length of trim should extend full height of cladding. Starting at a corner or butt joint, fasten Cedral Weatherboard from one end to the other, not from the centre outward.

- Install a 30x10mm tilting fillet at the bottom of the vertical battens allowing at least 150mm between the bottom edge and ground level.
- Apply the first row horizontally. The bottom edge of the first course should overlap the bottom edge of the tilting fillet by at least 3mm.

- Level the first plank and then fasten with screws or nails. Space these at 20mm from the top of the board.
- Overlap successive courses by 30mm. Ends of planks are butt jointed without overlap.
- Fix each board to at least 3 battens. If fixing to only 2 support points, reduce the spacing limit to 400mm.

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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Operal

product data



Advantages

- Lightweight
- Easy to fix
- Class 0 fire performance
- No maintenance necessary
- BBA Certificate No. 06/4355

Applications

- Soffits and fascias
- Balcony panels
- Infill panels
- Dormer cheeks
- General cladding

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 which is manufactured from a mixture of cement, organic fibres, fillers and water.

Colour and Availability

In order to give the best possible service, the most popular colours and sizes are kept in stock. Please see the back page flap for the full colour range.

Dimensions

Sheet sizes	3050 x 1220mm
	2500 x 1220mm
Nominal thickness	9mm
Nominal weight	10.8kg/m ²
Tolerance on thickness	±10%

Properties (air dry)

Density	1230kg/m ³
Bending strength:	
Longitudinal	23N/mm ²
Transverse	17N/mm ²
Modulus of elasticity:	8000N/mm ²
Hygroscopic movement	2.1mm/m
Co-efficient of linear expansion	
	15 x 10 ⁻⁶ m/mK
Thermal conductivity	0.25W/mK
Reaction to fire:	
Building Regulations	Class 0
EN 13501-1	A2-s1-d0

Operal detailing



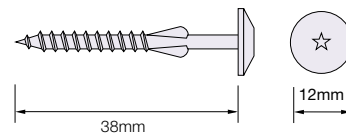
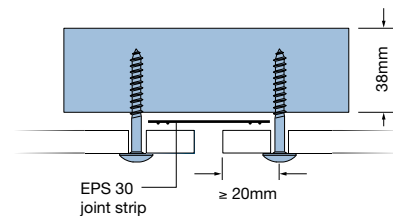
Fixing overview

For facade applications, Operal can be nailed or screwed to vertical timber battens using the rainscreen construction principle.

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.

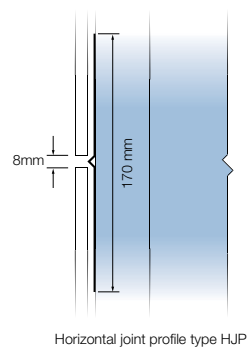
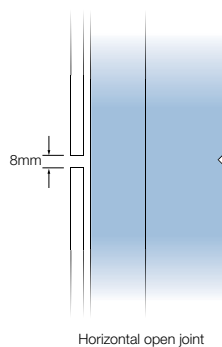
Timber protection

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



Horizontal joint alternatives

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



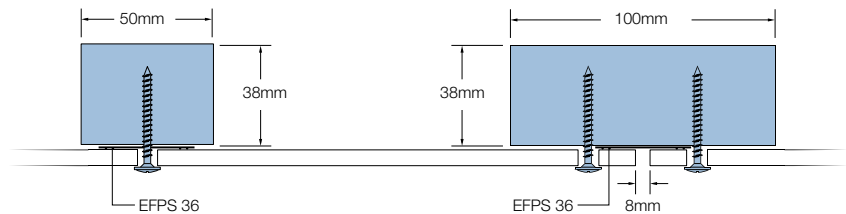
Vertical joint and intermediate panel fixing

Tegral supply black flexible jointing strips to protect and close vertical joints.

EFPS 36mm – standard panel joints

EFPS 60mm – corner joints

Note: To ensure an even surface, an EFPS 36 strip should be placed behind intermediate panel fixing.

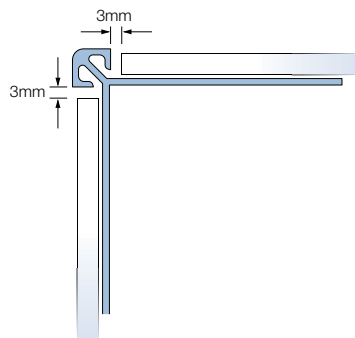


Corners

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

Universal corner profiles

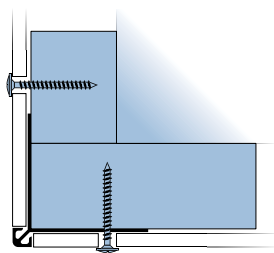
These are supplied black or mill finished as standard. Dimension 10.5mm



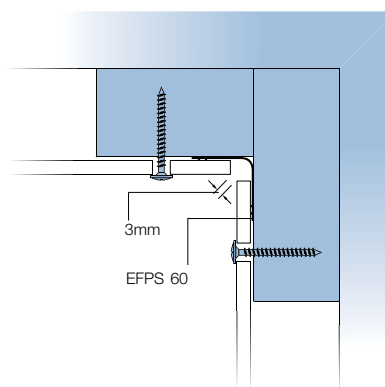
External corner

Universal corner profile – UCP

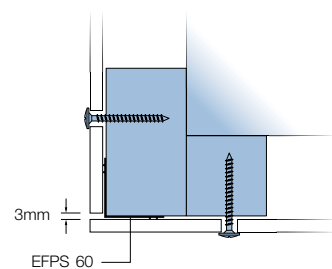
For good site practice it is necessary to vary the position of screw fixings to ensure that adequate penetration occurs. The example below illustrates a batten configuration employing 38mm deep battens and the respective screw positions



Open joint – internal

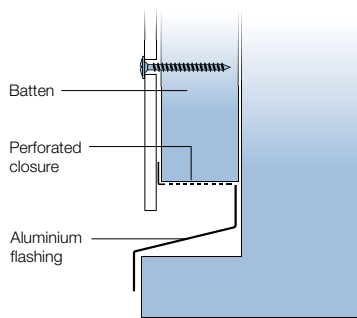


Open joint – external

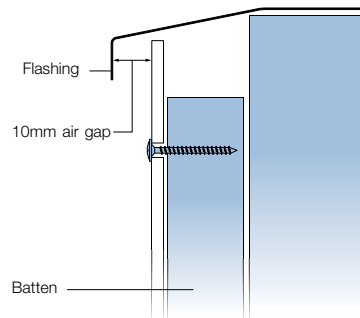


Operal detailing

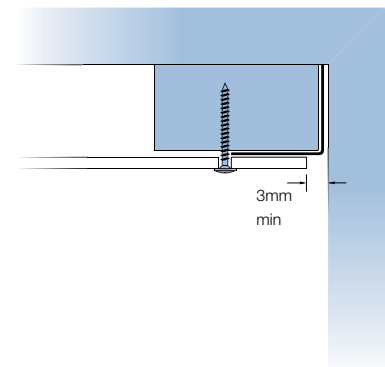
Base of cladding



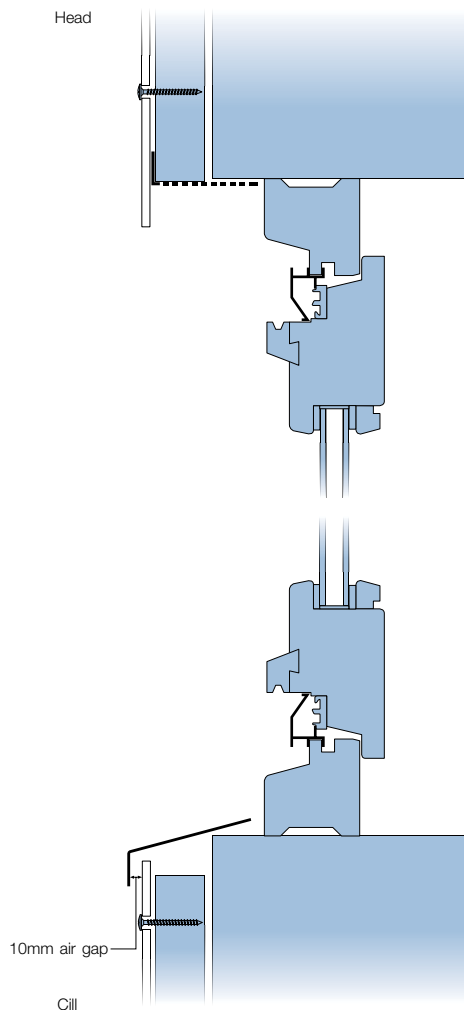
Top of cladding



Brickwork abutment

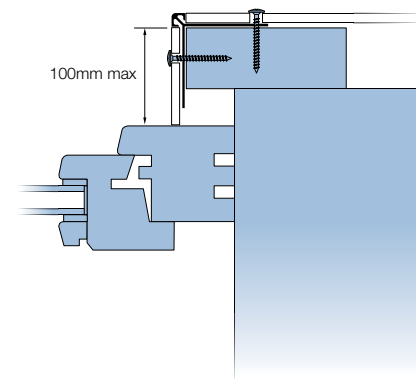


Typical window detail



Jamb

For all jambs in excess of 100mm, additional fixings are required.



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.

High wind loadings or exceptional impact requirements

Should wind loading exceed ± 1.5 kN/m², please consult the Technical Advisory Service. Where exceptional impact levels to cladding panels can be anticipated, i.e. low level applications near pedestrian access, schools, leisure facilities etc., additional timber battens, between the fixing batten, can be incorporated to increase the panel's resistance.

Screw holes

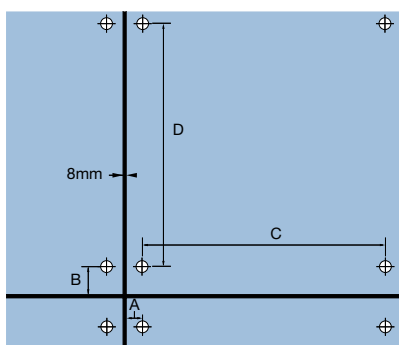
The pre-drilled hole dimensions for the panels should be 4mm. However, the Operal screw will cut its own hole.

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.

Fixing centres

Dimensions	screw fixing	nail fixing
mm		
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.

Cedral Weatherboard colour range

Cedral Weatherboard

Additional colours

Any factory approved BS colour can be supplied subject to minimum quantities.

Finishing

Cedral Weatherboard can be specified unpainted (Colour code C00 Natural) and finished on site using the appropriate product to achieve the intended look.

Opaque matt finish. Good quality exterior water based acrylic paint (Sadolin Superdec or Dulux Weathershield masonry paint). No primer necessary.

Gloss finish. Seal with an oil based alkaline-resistant primer followed by two coats of good quality external paint (undercoat and gloss).

Translucent finish. Use water based woodstain. (i.e. Sikken's Cetol BL21 Plus).

Normal timber dyes or preservative treatments are not suitable.

Minimum order quantity

This product is sold in pallet quantities only:

Natural – 144 planks per pallet

Standard colours – 144 planks per pallet

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C01 White
(Nearest RAL 9016: Traffic White)



C02 Beige
(Nearest RAL 1015: Light Ivory)



C03 Grey Brown
(Nearest RAL 1014: Ivory)



C04 Dark Brown
(Nearest RAL 8019: Grey Brown)



C05 Grey
(Nearest RAL 7047: Telegrey)



C07 Cream White
(Nearest RAL 9001: Cream)



C08 Sand Yellow
(Nearest RAL 1019: Grey Beige)



C09 Ochre
(Nearest RAL 1000: Green Beige)



C10 Blue Grey
(Nearest RAL 7001: Silver Grey)



C11 Beige Yellow
(Nearest RAL 1001: Beige)



C12 Lavender Blue
(Nearest RAL 5014: Pigeon Blue)



C15 Dark Grey
(Nearest RAL 7046: Telegrey)



C18 Slate Grey
(Nearest RAL)



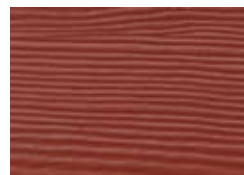
C30 Brown
(Nearest RAL 8024: Beige Brown)



C31 Pine Green
(Nearest RAL 6009: Fir Green)



C32 Orange Brown
(Nearest RAL 8023: Orange Brown)



C33 Red
(Nearest RAL 3009: Oxide Red)



C50 Black
(Nearest RAL 9017: Traffic Black)

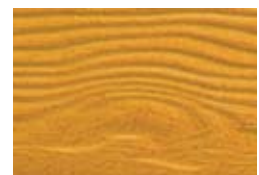
Woodstain Colours



CL100 Wood Brown



CL101 Cherry

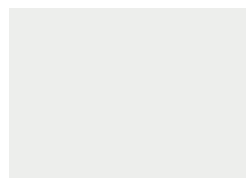


CL102 Pine

Operal colour range

Operal

Operal is available in the colours shown, except the Woodstain range, but with a flat, lightly textured surface.



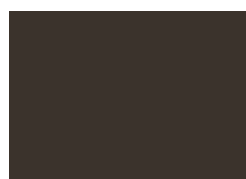
OP01 White
(Nearest RAL 9016: Traffic White)



OP02 Beige
(Nearest RAL 1015: Light Ivory)



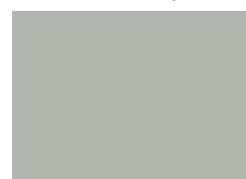
OP03 Grey Brown
(Nearest RAL 1014: Ivory)



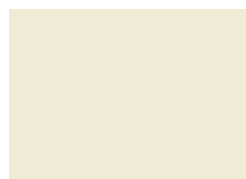
OP04 Dark Brown
(Nearest RAL 8019: Grey Brown)



OP05 Grey
(Nearest RAL 7047: Telegrey)



OP06 Grey Green



OP07 Cream White
(Nearest RAL 9001: Cream)



OP08 Sand Yellow
(Nearest RAL 1019: Grey Beige)



OP09 Ochre
(Nearest RAL 1000: Green Beige)



OP10 Blue Grey
(Nearest RAL 7001: Silver Grey)



OP11 Beige Yellow
(Nearest RAL 1001: Beige)



OP12 Lavender Blue
(Nearest RAL 5014: Pigeon Blue)



OP13 Lilac Blue



OP14 Atlas Brown



OP15 Dark Grey
(Nearest RAL 7046: Telegrey)



OP16 Cevennes Green



OP17 Oriental Green



OP30 Brown
(Nearest RAL 8024: Beige Brown)



OP31 Pine Green
(Nearest RAL 6009: Fir Green)



OP32 Orange Brown
(Nearest RAL 8023: Orange Brown)



OP33 Red
(Nearest RAL 3009: Oxide Red)



OP50 Black
(Nearest RAL 9017: Traffic Black)

Now available from
Patrick Lynch Roof Cladding
info@patricklynchroofcladding.com
www.patricklynchroofcladding.com
Phone: 064 - 6685411
Phone: 087 - 2543499
Phone: 021 - 4551000
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STORAGE

All Tegral cladding materials must be stored flat on pallets, inside and under cover, in dry conditions, protected from the weather and other trades. If moisture is allowed to penetrate between the stored sheets, permanent surface staining may occur.

HANDLING

Always lift fibreceement panels off each other, never slide them, since scratching of faces may occur. To carry the panels, stand them carefully on edge and use two people to lift them (one person at each end), taking care to protect the face from scratching or other damage.

SITEWORK

Tegral fibreceement panels can be cut on site. Fixed panels should be protected from damage. One way is to start at the top of the façade and work down the wall, moving scaffolding as work proceeds.

TECHNICAL SUPPORT

Tegral's team of Technical Representatives is available to provide information, samples and design assistance and may be contacted through the Tegral office. For detailed technical assistance please contact us at +353 (0) 59 86 31316 or by e-mail at support@tegral.com

OTHER TEGRAL PRODUCTS

THRUTONE-PLUS SLATES

Tegral slates are renowned throughout the construction industry. Thrutone-Plus slates come with a 20 year colour guarantee and are available in a range of sizes and shapes. A complete kit of accessories complements the product.

CLASSIC NATURAL SLATES

From a variety of quarries in Spain and North and South America, Tegral offer a number of highly successful brands including Villar del Rey, Bretona and Canadian Heather.

PROFILED SHEETING

A range of fibre cement roofing sheets and general purpose lining boards is available from Tegral.

CLAY TILES

Eternit and Hawkins machine-made plain clay tiles, Ashdowne handcrafted plain clay tiles and a complete range of clay ridges can be sourced from the company.