

## 1. Product Composition

Cedral Lap fibre cement strips consist of the following:

- portland cement
- mineral fillers
- natural organic reinforcing fibres
- additives
- for the different covering colour shades: water-based acrylate dispersion on the image side and back coating on the back

## 2. Product Method

Cedral Lap fibre cement strips are manufactured on a Hatschek machine and are autoclaved. The front face of the Cedral planks are manufactured with either a timber or smooth effect finish. Cedral Lap can be supplied in a range of 21 colours and 2 woodstain finishes providing an aesthetic option to suit most project requirements. The ends of the woodstain Cedral Lap planks are treated with the Cedral touch up paint. We recommend the use of Cedral touch up paint on the 21 opaque factory applied colours.

## 3. Dimensions & Tolerances

Dimensions	
Length & Width	190 x 3600
Thickness	10mm
Possible Fixing Method	Screwing (recommended), Nailing
Tolerances	
Thickness	+/- 10%
Length	+/- 5.0 mm
Width	+/- 2.0 mm
Squareness	1mm
Straightness Lengthwise	3mm
Weight	11.2kg/plank
Installed Weight	19.3kg/m <sup>2</sup>
Plank coverage (30mm overlap)	1.75 planks per m <sup>2</sup>

## 4. Colour

Cedral Lap is available in the following profiles:

- Timber: surface with wood effect surface
- Smooth: slightly structured surface (orange peel)

The woodstain colours have the following characteristics;

- Differences in colour as with staining of wood can occur within one or between different Cedral.
- Cut edges have to be treated with the relevant Cedral touch up paint. Not or poorly treated cutting edges can lead to moisture stains on the front side.
- Applications with visible fixings (e.g. vertical or flat horizontal installation) are not recommended.

For an overview of the standard colours please refer to [www.cedral.co.uk](http://www.cedral.co.uk). It is technically impossible that the colours listed on the website represent the colours realistically. Therefore we advise that the final choice of the colour has to be made with samples. Samples can be ordered via the link above.

The risk of colour differences between the Cedral colours decreases if an order is placed for the required amount of material in one go.

Colour differences are measured according to the CIELAB colour model. Tolerated colour differences on a façade for full coated sheets are  $\Delta L^* = \pm 1.0$ ,  $\Delta a^* = \pm 0.4$ ,  $\Delta b^* = \pm 0.4$  and  $\Delta E^* = \pm 1.2$ . Colour differences of wood colours "CL 1xx RC" are measured according to a simplified CIELAB colour model, by which only the lightness of the colour is checked. Tolerated colour differences are  $\Delta L^* = 5.0$ . Colour variation may be accentuated by the effects of light and the viewing angle.

## 5. Technical Properties

### A. Testing According to ISO Quality Management System

Density	Dry	EN 12467	1,300	kg/m <sup>3</sup>
Bending Strength	Ambient, //	EN 12467	23.0	N/mm <sup>2</sup>
	Ambient, ⊥	EN 12467	11.00	N/mm <sup>2</sup>
Modules of Elasticity	Ambient, //	EN 12467	7,500	N/mm <sup>2</sup>
	Ambient, ⊥	EN 12467	5,500	N/mm <sup>2</sup>
Hygrical Movement		EN 12467	1.75	mm/m
Porosity	0-100%		23.0	%

### B. Classification

Durability Classification	EN 12467	1,300	Cat A
Strength Classification	EN 12467	23.0	Class 2
Reaction to Fire	EN 13501-1	11.00	A2-s1,d0

### C. Type test or Best Estimate

Impermeability Test	EN 12467	Ok
Warm Water Test	EN 12467	Ok
Soak Dry Test	EN 12467	Ok
Freeze Thaw Test	EN 12467	Ok
Thermal Expansion Coefficient	$\alpha$	<0.01 mm/mK
Thermal Conductivity	$\lambda$	0.212 W/mK

## 6. Advantages

Providing the application guidelines are followed, Cedral fibre-cement planks have the following superior mix of properties compared to other materials:

- fire safe (no fire ignition, no spread of fire)
- sound insulating
- resistant to extreme temperatures
- water resistant (if in compliance with application guideline)
- resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- resistant to many chemicals
- environmentally friendly, no harmful gas emissions

In addition, Cedral fibre cement planks have the following specific properties:

- very little maintenance in comparison with wood because of its durable coating
- aesthetic surface in different covering colours
- can be worked on with joinery machinery
- screw and nail without pre-drilling

## 7. Applications

Exterior walls: exterior wall cladding, covering of gable ends, dormer windows.

## 8. Health & Safety

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. Apart from this, the inhalation of fine (respirable size) quartz containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. For more ample information, please check the Safety Data Sheet (based on 1907/2006/EC, article 31).

## 9. Maintenance and Cleaning

For minor soiling, washing with a mild household detergent or soft soap solution followed by rinsing with clear water.

## 10. Certification

The manufacturer can - within the framework of the European Regulation N° 305/2011 (CPR) - present the Declaration of Performance (DOP) of the product such confirming that the product has a CE marking. The CE marking guarantees that the product is in accordance with the basic requirements determined by the harmonized European standard and applicable to the product. The Declaration of Performance is presented in accordance with the CPR and can be found at [www.infodop.com](http://www.infodop.com). The manufacturer is also ISO certified. Cedral Lap has an EPD (Environmental Product Declaration). Cedral Lap also has a BBA certificate under the reference 06/4299.

## 11. More Information

Information about the various applications can be found in within the Cedral Fixing Guide. They can be found on [www.cedral.co.uk](http://www.cedral.co.uk). Information about external suppliers can also be downloaded from the website.

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