TECHNICAL DATA SHEET

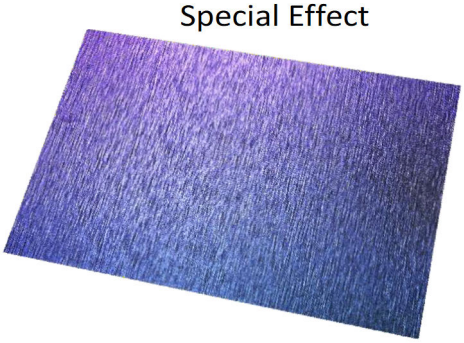
CLADCOLOUR "HD" FAÇADE PANEL

This data sheet provides information on the durability and resistance of CLADCOLOUR HD

Solid Colour

Lacquer Effect

Special Effect



Material Composition	A through coloured calcium silicate fibre reinforced cement panel.
Properties	A highly durable factory finished façade panel proving good UV resistance and weathering properties. The product is very dimensional stable and is defined Category 3 under Bs EN 12467 2012+A2:2018
Environment	For use in normal environmental areas. Use in coastal areas does not affect panel performance.
Natural Appearance (uncoated)	Each differently coloured panel has the same colour running through its core.
	Three surface finishes available: polished, watermark & grained. Lacquer Effect – Clear lacquered finish to the boards natural appearance.
Decorative Coating Options	Solid Colour – 2 coats of solid topcoat colour in almost any RAL or NCS colour.
	Special Effect – Special Effect – This provides a range of special finishes in metallic, flip flop and other innovative pigment technology.

Dimensional Conformity Nominal Weight (Kg) – Standard Sizes

		Length (mm)	Width (mm)	Thickness (mm)	Weight (kg/m²)
Maximum Sheet Sizes for panel Optimisation	**Standard**	**2400 or 3020**	**1220**	**9mm**	**14.3kg/m²**
		2400 or 3020	**1220**	**12mm**	**19.1 kg/m²**

	Non Standard	**2400 or 3020**	**1220**	**15mm**	**23.9kg/m2**

Technical Information	**Value**
Nominal Board Density	9mm – 1590kg/m^3
BS EN 12467 Tests (Modulus of Rupture)	>12Mpa (saturated)
Biological Resistance	Highly resistant
Moisture content	<8%
Moisture Movement (humidity 30%-90%)	0.01 – 0.02%
Water absorption (by dry weight)	<30%
Bending Strength MOR Average Wet MOE Average Wet	13.55MPa 9070MPa
Bending Strength (Wet Condition)	Class 3
Thermal Conductivity	0.35W/mk

Panel Optimisation

Project specific panels are cut to size from 1 of the large format sheets. Benx can provide an optimisation service that allows the most efficient use of large sheets. In addition to this, our specialised manufacturing process allows us to finish optimised panels as opposed to always cutting from full sized finished panels. This helps reduces wastage and cost as well as being more environmentally friendly.

Surface Condition	**Dimensional Tolerance**
Front - Smooth	Length +1/-2mm
Back - Textured	Width +1/-2mm
	Thickness ±10%

Reaction to Fire

Non-combustible – Class A1 – BS EN 13501-1:2018 + A1:2009 Application Dependent

Limitations of Use

Installation

Reasonable precautions must be taken to ensure the boards are not damaged during installation. When cutting the boards, power and hand tools should be used with the care and in accordance with the Certificate holder's recommendations. Power tools should only be used by individuals who have been instructed and trained to use them safely. Appropriate Personal Protective Equipment (PPE) should be used. It is important to observe appropriate health and safety legislation when working on site (that is, using personal protective clothing and equipment). The Certificate holder should be consulted for material safety data sheets and advice. When working in enclosed areas, precautions should be taken to ensure dust levels are controlled in accordance with the current issue of EH40/2005.

Installation/Fixing

CLADCOLOUR MP can be fitted to either a timber support structure or an aluminium support system using Stainless Steel Screws or Aluminium / Stainless Steel rivets.

1. Fitting to timber substrates a screw designation of 4.8mm in diameter X 38mm in length with a 12mm head and hexalobular drive recces is required. Image 1 Below.
2. Installing the panels to an aluminium support rail system will require a) Centralising tool. b) Rivet spacer nosepiece c) Aluminium / Stainless Steel Rivets to the following specification 4.8mm x 18mm body incorporating a 16mm Dome Head. The rivet body and head should be made from AlMg5 Aluminium with a captive A2 (304) grade Stainless Steel mandrel. Further details and know how are available on request from our technical department.
3. Depending on which method of fixing is selected, there will be variations in fixed and sliding points. Please refer to Benx fixing detail drawings prior to installation of any panels.

	
a). Centralising Tool	b). Rivet Spacer Nosepiece
	
C). AlMg5 Aluminium / Stainless Steel Rivet 4.8 x 18 x 16	Image 1. Stainless Steel 4.8 X 38 X 12 Façade Screw with T20 Hexalobular Drive Recess

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