MARE FACADE

Cement based, precast constituted stone facade panel

Product Information

Betonex CBOARD Mare Facade is a cement based, ultra-high performance precast constituted stone facade panel specially developed for facade cladding systems. It is also known as technological or engineered stone looking like natural stone but stronger.

Betonex CBOARD facade products have been developed as a result of long years of R&D activities within the framework of university industry cooperation abroad.

General Characteristics

- Cement based.
- Ultra-high strength.
- Fire resistant and non-combustible.
- Low water absorption.
- Highly resistant against cracking.
- Unique characteristic.
- Suitable for interior and exterior applications.
- 11 standard color and 4 surface finishing options. Custom-color is available.

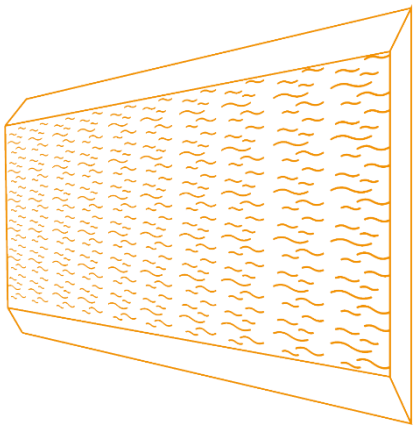
Special Structure

Betonex CBOARD Mare Facade's special structure is created using natural materials which makes it eco-friendly while keeping it strong, stable, durable and eco-friendly.

CBOARD Mare, like natural stones, is a well compacted formation of various sized mineral granules with the binder cement manufactured thanks to the unique CBOARD Mare Technologies Process resulting in dense, compact, lowest porosity structure.

Technical Properties

Technical Properties	Mare Facade
Wind Load Strength	400 kgf/m^2
Bending Strength	14 MPa
Density	2.35 g/cm^3
Impact Resistance	Class B
Fire Resistance	A1
Thermal Expansion	0,45 mm/m
Water Absorption	2 %
Freeze / Thaw Effect	No Deformation
Abrasion Resistance	8-11/50 cm^3/cm^2



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Dimensions & Weight

- 600x1200mm or 600x1500mm panels.
- Between 15-20mm thickness.
- Approximate weight can be considered as 35,5kg/m^2 where the thickness is 15mm.

Fastening Options

Betonex CBOARD Mare Facade can be installed on either a steel or aluminum substructure using hidden rail system.

Installation Details

Where 9-10mm horizontal joints are preferred:

- The wall surface should be cleansed of all kinds of dust, debris and foreign materials.
- Using a suitable wall plug, L brackets are installed.
- Vertical T or box profiles are fixed to the L brackets. If specified on the Project or the Specification, heat insulation is placed on the wall, between the profiles.
- Hidden horizontal rail profiles are fixed to the vertical profiles.
- CBOARD Mare Facade is inserted into the upper rail profiles with a sloped movement, then left onto the bottom rail profiles and the installation is completed.

Where 9-10mm horizontal joints are preferred:

- The wall surface should be cleansed of all kinds of dust, debris and foreign materials.
- Using a suitable wall plug, L brackets are installed.
- Vertical T or box profiles are fixed to the L brackets. If specified on the Project or the Specification, heat insulation is placed on the wall, between the profiles.
- Only the bottom rail is fixed to the vertical profiles, then CBOARD Mare Facade is placed to the bottom groove. After that, the upper rail profiles are inserted into the upper groove with a space of expansion and fixed to the vertical profiles. Following the same method, the installation is completed from bottom to top of the facade.

Cleaning & Maintenance

Depending on the location of the cladding and dirt, CBOARD Mare Facade may be cleaned at an interval of 3-5 years. The cleaning should be made without any chemicals or high-pressure cleaners.

Responsibility

Technical findings and the application suggestions are based on experimental data. Actual values can vary due to conditions out of control. Suggestions do not take on any other obligations. When the new version of this document is issued, old version becomes invalid.