

## **BRICK CHANNEL PANEL**

*Cement based, precast GRC facade panel with channels for brick installation.*

### **Product Information**

Betonex CBOARD Brick Channel Panel is a cement based, alkali resistant glass fibre reinforced concrete (GRC) precast facade panel specially developed for lining bricks with ease and speed.

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.
- High-strength and ductility.
- Fire resistant and non-combustible.
- Durable and lightweight.
- Highly resistant against cracking.
- Unique characteristic.
- Suitable to be cut to desired size.
- Similar characteristics with bricks.
- Fast and smooth workmanship.

### **Special Structure**

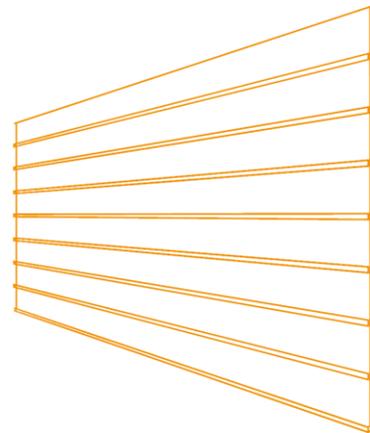
Betonex CBOARD Brick Channel Panel's special structure is created using natural materials which makes it eco-friendly while keeping it strong, stable, durable and lightweight.



### **Technical Properties**

Technical Properties	Brick Channel Panel
Compressive Strength	30-50 MPa*
Bending Strength	8-20 MPa*
Proportionality Ratio	8-17 MPa*
Minimum Expansion	0,58 %
Impact Strength	5-16 kJ/m <sup>2</sup> *
Elasticity Modulus	12000 MPa
Density	1,8-2,0 g/cm <sup>3</sup> *
Thermal Expansion Coeff.	1,2x10 <sup>-5</sup> /°C
Thermal Conductivity	0,6-1,4 w/mK*
Fire Resistance	A1
Shrinkage Value	0,5-1,5 mm/m*
Swelling Value	0,5-1,5 mm/m*
Water Absorption	6 %*
Water Vapor Diffusion	60

\* Desired value in the range could be manufactured depending on the specification requirements.



**CBOARD®**

### Dimensions

- Available in 600x1250mm standard dimensions.
- Between 8-30mm thickness.

### Fastening Options

Betonex CBOARD Brick Channel Panel can be installed on either a steel or aluminum substructure using a screw-retained or rivet-retained system.

### Installation Details

- The wall surface is 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.
- CBOARD Brick Channel Panels are fixed to the vertical profiles using screws/rivets.
- PU-based sealant is applied to the joints.
- Suitable brick adhesive / mortar is applied, and bricks are lined completing the installation.

### Cleaning & Maintenance

Depending on the location of the cladding and dirt, the brick facade system with CBOARD Brick Channel Panels 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.