

# CBOARD BUTTRESS

Cement based, precast GRC decorative buttress



## PRODUCT INFORMATION

Betonex CBOARD Buttruss is a cement based, alkali resistant glass fibre reinforced concrete (GRC) precast decorative buttress specially developed for facade cladding systems.

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.
- Suitable for interior and exterior applications.
- Can be painted to desired color.

## TECHNICAL PROPERTIES

| Technical Properties     | Buttruss                    |
|--------------------------|-----------------------------|
| 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                  | 1,4-1,9 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         | % 8-13*                     |
| Water Vapor Diffusion    | 60                          |

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

## DIMENSIONS

- Custom sizing is available as per Project requirements.

## INSTALLATION DETAILS

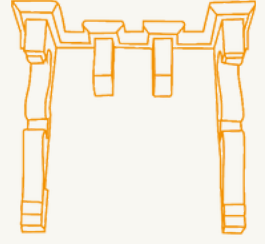
- The surface is cleansed of all kinds of dust, debris, and foreign materials.
- A hole is drilled on the surface suitable sized with the threaded rod left in CBOARD Buttress during the manufacturing.
- CBOARD Buttress is fixed to the cleaned hole using the threaded rod.
- CBOARD Buttress is painted to the desired color and the installation is completed.

## FASTENING OPTIONS

Betonex CBOARD Buttress can be installed on a steel substructure or a floor using hidden system.

## CLEANING & MAINTENANCE

Depending on the location of the cladding and dirt, CBOARD facade may be cleaned at an interval of 3-5 years. The cleaning should be made without any chemicals or high-pressure cleaners. Re-painting may be considered to achieve the first-day-look of the facade.



## SPECIAL STRUCTURE

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

Thanks to its cutting-edge manufacturing technology, CBOARD products stand out among its alternatives with a fixed-thickness and stable production

## 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.