

# MasterBrace<sup>®</sup> BAR

## High Strength and High Modulus Carbon Fiber Bars

### DESCRIPTION

**MasterBrace BAR** is high strength and high modulus carbon fiber bars within the **MasterBrace<sup>®</sup> FRP System**.

### PACKAGING

**MasterBrace BAR** are supplied in pre-cut lengths of 3m and 5m bars.

### TYPICAL APPLICATIONS

**MasterBrace BAR** can be used for:

- Increasing flexural strength of the concrete elements
- Increasing flexural strength of masonry walls
- Tie bars to lock together cracks in concrete floors etc.

### ADVANTAGES

- Light-weight and therefore easy to transport around site
- Easy to cut
- Easy to design (Unidirectional laminates and similar elasticity modulus of steel)
- Excellent corrosion resistance
- Good fatigue properties

### TYPICAL PROPERTIES\*

	MasterBrace BAR 800 CFS	MasterBrace BAR 1000 CFS	MasterBrace BAR 1200 CFS
Elasticity Modulus (N/mm <sup>2</sup> )	165,000	165,000	165,000
Tensile Strength (N/mm <sup>2</sup> )	3000	3000	3000
Elongation at Break (%)	1.7	1.7	1.7
Nominal Diameter (mm)	8	10	12
Nominal Area (mm <sup>2</sup> )	50	78	113
Ultimate Tensile Load (kN)	160	250	360
Linear Weight (g/m)	95	155	210

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## CLEANING

After the application all tools should be cleaned with a proper detergent or solvent such as thinner.

## STORAGE

Store in original container in cool (+5°C to 30°C) and dry indoor conditions.

## WATCHPOINTS

**MasterBrace BAR** applications should only be carried out by approved and experienced experts.

- Work clothes, protective gloves, glasses and masks as required by local health and safety requirements must be used as defined in labour laws must be used during the application. Do not touch to the bars without hand gloves.
- Please contact Master Builders Solutions Technical Services for any further information that may be required.

## HEALTH AND SAFETY

It is dangerous to get close to the store areas with fire. The store must be well ventilated. Work clothes, protective gloves, glasses and mask defined in Labour Laws must be used during the application. Avoid from material to contact with skin and eyes. In case of contacting wash your skin with water and go to doctor immediately.

Don't bring any food and drink to the application area. Store the material away from the children.

For further information Material Safety Data Sheets should be read.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

**Master Builders Solutions**  
Construction Chemicals LLC  
P.O. Box 37127, Dubai, UAE  
Tel: +971 4 8090800  
[www.master-builders-solutions.com/en-ae](http://www.master-builders-solutions.com/en-ae)

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