

Milliken Infrastructure

# RenewWrap™ Carbon Bar

High-Strength Carbon Bar



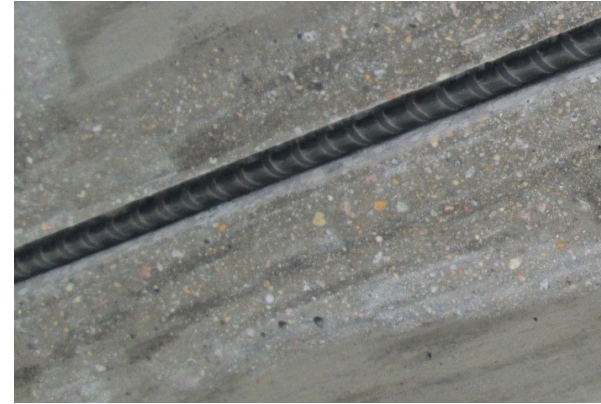
BRIDGES + ROADWAYS



BUILDINGS + PARKING FACILITIES



OIL, GAS + INDUSTRIAL



**RenewWrap™ pre-cured carbon fiber bars and tapes** are designed to be used in near surface mounted (NSM) strengthening applications. The bars are made with a textured or ribbed surface to promote good adhesion with the bonding resin. RenewWrap™ CF bars are available in 20 or 40 foot lengths

## Benefits

- Lightweight and easy to handle
- Non-corrosive, may be placed close to concrete surface

PHYSICAL PROPERTIES	#3 BAR	#4 BAR
Nominal Diameter	0.375" (10 mm)	0.50" (13 mm)
Nominal Cross Sectional	0.110 in <sup>2</sup> (71.2 mm <sup>2</sup> )	0.196 in <sup>2</sup> (126.7 mm <sup>2</sup> )
MECHANICAL PROPERTIES		
Tensile Strength*	315 ksi (2070 MPa)	300 ksi (2068 MPa)
Tensile Modulus of Elasticity*	17 Msi (124 GPa)	18 Msi (124 GPa)
Elongation at Break*	1.75%	1.67%

\*ASTM D7205-06

## Typical Uses

The RenewWrap™ CF bars may be used to strengthen or retrofit a wide range of concrete and masonry structural members where it is necessary to embed the reinforcement for additional protection. Typical applications include negative moment areas on the tops of slabs and decks where vehicular traffic may damage traditional fabric strengthening systems.

- Flexural strengthening of one-way slabs, beams, and walls.
- Shear strengthening of beams
- Negative moment strengthening of one-way slabs and beams.

## Benefits

- High strength, high modulus bars are corrosion resistant
- Textured surface promotes good adhesion with bond adhesive without special surface preparation of bars.

## Storage & Shelf Life

Store in a cool, dry place at 50-90 °F (10-32 °C) where bars cannot be damaged. No shelf life.

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