

# CARBON PLATE

Unidirectional Carbon Fibre  
Strengthening Strip

## PRODUCT INFORMATION

Carbon Plate is a strengthening material used together as a reinforcement system with ticm EPX CP. It has high tensile strength and high durability characteristics. Being made of carbon makes it long-lasting, alkali resistant, and ecofriendly. It can be easily installed or removed without damaging the structure. ticm, strengthening products have been developed as a result of long years of R&D activities within the framework of university industry cooperation abroad.

## 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.

## PACKAGING

In 100 m rolls.

## AREAS OF USAGE

ticm Carbon Plate is used in strengthening of buildings, reinforcing structural elements, improving the earthquake performance by providing an enhancement on the load bearing capacity. It bears the seismic loads coming from the earthquakes to reduce the stresses and deformations on the structural elements. It is also used in damaged structures, old reinforced concrete buildings where the steel bars are getting corroded.

The usage of the carbon plate with epoxy resin is a traditional way of strengthening the buildings, bridges, domes and other structures due to carbon's naturally high durability characteristics and strength.

Technical Properties	Carbon Plate
Color	Black
Thickness	1,2 or 1,4 mm
Width	50 or 100 mm
Braiding	Unidirectional
Fibre Volumetric Content	> 70%
Tensile Strength	> 2700 MPa
Elasticity Modulus	> 165 GPa
Shelf Life	Unlimited