

4. Technical Data of S&P FRP Strengthening Systems

4.1 S&P FRP Sheets (Sheets made of Carbon, Aramid and Glass fibres)

- **Application**

S&P FRP Sheets made of different types of fibres are used as bonded reinforcement for the strengthening and repair of structural elements made off steel, concrete, stonework and wood as well as for the reinforcement of historical structures.

- **Application Uses**

Enhancement of load carrying capacity due to changed usage

Upgrading due to changes in the building code

Alteration to the intended structural form

Rectification of mistakes made during design or construction phases

- **Advantages of FRP Strengthening Systems**

Low unit weight

Low profile thickness

Ease of application due to lightness

High E-modulus – carbon modulus is greater than that of steel

Excellent fatigue behaviour

Alkali resistance (in the case of AR-glass:- E-glass has some limitations in this respect)

Corrosion resistant

Covering with a variety of paints, coatings etc is possible.

- **Product names**

Type: S&P C-Sheet 240 (three weights)

S&P C-Sheet 640 (one weight)

S&P G-Sheet AR (two weights)

S&P G-Sheet E (two weights)

S&P A-Sheet 120 (one weight)