



A Simpson Strong-Tie® Company



## APPLICATION INSTRUCTIONS

### Folding S&P C-Sheets



# Folding C-Sheets

## Application instructions



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### REQUIREMENTS

- The use of folded S&P C-Sheets must be clarified in advance with an S&P engineer
- These instructions are valid for sheets with a standard width of 30 cm
- For the adhesive tensile strength of the substrate, higher requirements apply depending on the application: Per sheet layer + 1,0 N/mm<sup>2</sup>
- The overlap of folded C-Sheets depends on their width and must be determined by an S&P engineer, but it must be at least 150 mm
- For the processing of folded S&P C-Sheets, the same specifications apply as for single layer S&P C-Sheets (see application instructions S&P C-Sheet)



Impregnate the S&P C-Sheet with S&P epoxy resin.

Use a rubber spatula (squeeze) and a teflon roller to work the epoxy resin into the S&P C-Sheet **in the direction of the fibres only (longitudinal)**.

For product consumption see table on page 5.

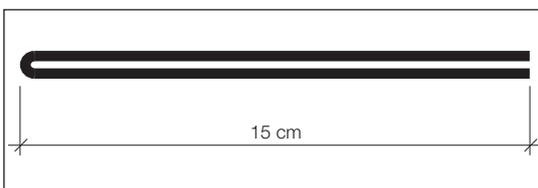
### APPLICATION



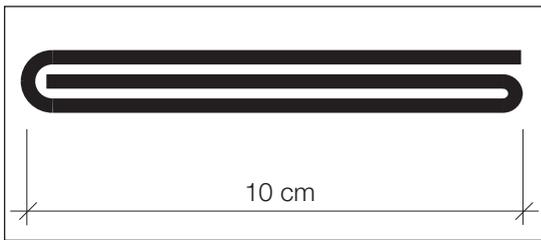
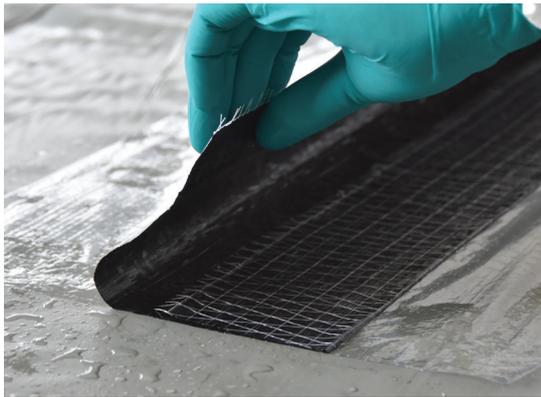
#### Carbon stirrup from S&P C-Sheet two layers w = 15 cm

For a width of 15 cm, carefully fold the S&P C-Sheet along the middle (fold in half).

Apply epoxy resin with the Teflon roller **in the direction of the fibres (longitudinal)**. With each fold, smooth out any air pockets with a rubber spatula or teflon roller.



APPLICATION

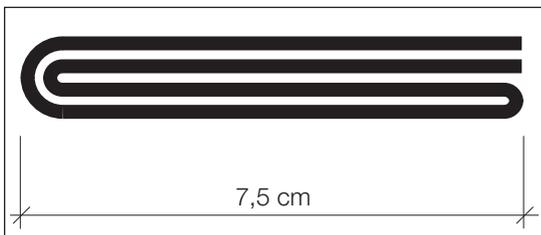
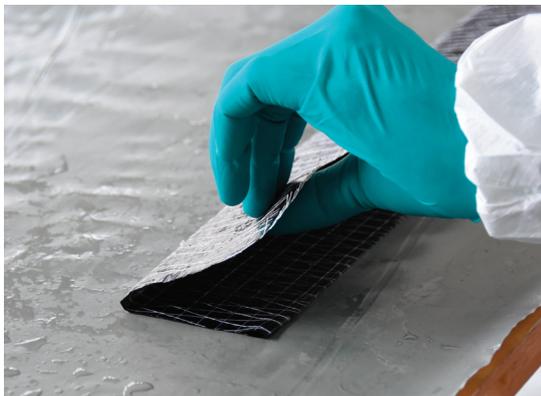


### Carbon stirrup from S&P C-Sheet three layers $w = 10 \text{ cm}$

For a width of 10 cm, carefully fold the S&P C-Sheet into thirds.

Apply epoxy resin with the Teflon roller **in the direction of the fibres (longitudinal)**. With each fold, smooth out any air pockets with a rubber spatula or Teflon roller.

**Caution:** Due to the double folding, the surface area of the S&P C-Sheet is greatly reduced. This application is only permitted in consultation with S&P!



### Carbon stirrup from S&P C-Sheet four layers $w = 7.5 \text{ cm}$

For a width of 7.5 cm, carefully fold the S&P C-Sheet into quarters.

Apply epoxy resin with the Teflon roller **in the direction of the fibres (longitudinal)**. With each fold, smooth out any air pockets with a rubber spatula or Teflon roller.

**Caution:** Due to the triple folding, the surface area of the S&P C-Sheet is greatly reduced. This application is only permitted in consultation with S&P!

### APPLICATION



Following the folding, work more epoxy resin into the S&P C-Sheet using a rubber spatula (squeeze) and a teflon roller. Again, only apply the resin **in the direction of the fibres (longitudinal)**.

The layers must be free from creases and air pockets.



Apply the folded S&P C-Sheets according to the instructions for single layer S&P C-Sheets (see Application Instructions S&P C-Sheet).

If the folded sheet sags or slips due to its own weight, it must be fixed in place with suitable measures. You can obtain assistance from the experts at S&P.

### SAFETY

Measures regarding health & safety (protective clothing/ accident prevention) are a prerequisite.

The material consumption is dependent on the levelness and roughness of the substrate. As a result of this, the actual consumption can vary.

CONSUMPTION

Product	S&P Resin 55 HP (vapour proof)	S&P Resicem HP (improves vapour exchanges)
S&P C-Sheet 240 (200 g/m <sup>2</sup> )	~ 600 – 800 g/m <sup>2</sup>	~ 1 100 – 1 500 g/m <sup>2</sup>
S&P C-Sheet 240 (300 g/m <sup>2</sup> )	~ 700 – 1 100 g/m <sup>2</sup>	~ 1 300 – 1 600 g/m <sup>2</sup>
S&P C-Sheet 240 (400 g/m <sup>2</sup> )	~ 900 – 1 300 g/m <sup>2</sup>	~ 1 400 – 1 800 g/m <sup>2</sup>
S&P C-Sheet 240 (600 g/m <sup>2</sup> )	~ 1 000 – 1 400 g/m <sup>2</sup>	~ 1 500 – 1 900 g/m <sup>2</sup>
S&P C-Sheet 640 (400 g/m <sup>2</sup> )	~ 900 – 1 300 g/m <sup>2</sup>	Not recommended
Bonding bridge	~ 150 g/m <sup>2</sup>	~ 150 g/m <sup>2</sup>

More information about the S&P FRP systems and all technical data sheets, as well as all safety data sheets, are available at [www.sp-reinforcement.eu](http://www.sp-reinforcement.eu).

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