

S&P ARMO-mesh

04/10

S&P ARMO-system:

The S&P ARMO-system is a combination of S&P ARMO-crete and S&P ARMO-mesh. The system is used for static retrofitting (flexural, axial, shear) of RC structures. Different approvals for the system carried out at different independent Technical Universities and laboratories are available. The static dimensioning of the S&P ARMO-system is carried out with the software ARMO-flexion.

Technical data	ARMO-mesh L500	ARMO-mesh L200 (main direction length) ARMO-mesh C200 (main direction cross) ARMO-mesh 200/200 (both directions)
Weight of C-fibre [g/m ²]	200	80 (2x80 for S&P ARMO-mesh 200/200)
Density C-fibre [g/cm ³]	1.7	1.7
Theoretical thickness of C-fibre for the design (fibre weight÷density) [mm]	0.117	0.047
Theoretical cross section C-fibre for the design [mm ² /m]	117	47
Ultimate tensile strength C-fibre [N/mm ²]	4'300	4'300
Ultimate tensile force at 1.75 % [kN/ m]	500	200
Reduction factor for design	1.2 (S&P recommendation)	1.2 (S&P recommendation)
Tensile force for desing (after reduction)		
Flexural 1 % [kN/m]	235	95
Axial 0.4 % [kN/m]	94	38

ARMO-mesh L500 ARMO-mesh L200 ARMO-mesh 200/200	Width / Length of roll: 1.95 m / 50 m
ARMO-mesh C200	Width / Length of roll: 0.975 m / 50 m

Coating / Storage:

S&P ARMO-mesh is coated with a reactive component. The component is sensitive to water. Therefore the product shall be stored in a dry area.

Cutting of product:

The product cannot be cutted with a knife. It has to be cutted with an industrial scissor.

Application of product:

If the product is used in combination with S&P ARMO-crete w (w = wet spraying method), the mesh is layed wet in wet into the spray mortar.

If the product is used in combination with S&P ARMO-crete d (d = dry spraying method), the mesh is fixed temporarily and sprayed in with the shotcrete. It's also an option to fix the product with clamps into the first shotcrete layer. After a second shotcrete layer can be applied over the mesh. In such circumstance, the cleaning with water pressure of the first shotcrete layer is recommended in any case before the application of the second layer.