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GLASS FIBER REINFORCED STRUCTURAL PROFILES



Scientific-Production Association "Severodonetsky Stekloplastic" is a state-of-the-art manufacturing company producing glass fiber reinforced structural profiles of construction application. Decades of work experience and continuous scientific researches provide ample opportunities to the company in the supply of its products to many countries, including Germany, Poland, Holland, Russia, Colombia, and others.

FOR NOTES

Owing to its unique characteristics GRP profile successfully replace such traditional materials as steel, aluminum, concrete, and wood. Some of these benefits are as following:

- *high physical and mechanical properties;*
- *low specific density;*
- *corrosion-, rot-, and deformation resistance;*
- *high moisture resistance;*
- *high chemical resistance to aggressive media;*
- *low thermal conductivity;*
- *resistance to ultraviolet radiation;*
- *high dielectric properties;*
- *non-magnetization and absolute radio transparency;*
- *aesthetically pleasing appearance.*

GRP structural profiles are widely used in various branches of industry, in municipal engineering, construction engineering, power engineering, traffic infrastructure and many other areas.



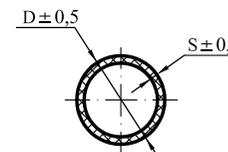
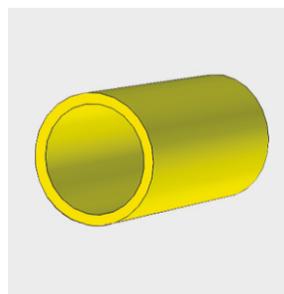
Structural profiles in combinations with other materials permit to implement more effectively the projects. Pultrusion GRP profiles are easily fastened, transported, lifted to any desired height, and possess good heat retaining properties. They do not deform, and they are cost-neutral during the process of their exploitation.

We are able to produce customized shapes of all GRP structural profiles (in accordance with specific client requirements).

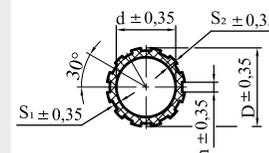
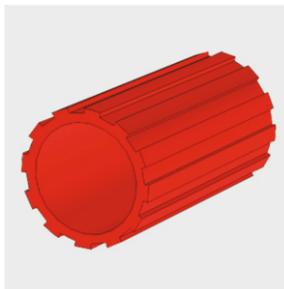
TECHNICAL DATA SHEET GRP structural profiles

Property	Unit	Test Method	Minimum requirements for Class E23 (EN 13706)	Regulatory requirements of SPA «Severodonetsky Stekloplastic» Ltd.
Tensile Modulus - longitudinal	GPa	ISO 527-4 ASTM D638	23	≥ 23
Tensile Strength - longitudinal	MPa		240	≥ 240
Tensile Modulus - transverse	GPa	ISO 178 ASTM D790	7	≥ 7
Flexural Modulus - longitudinal	GPa		23	≥ 23
Flexural Strength - longitudinal	MPa		240	≥ 240
Shear Strength	MPa	ISO 14130 ASTM D2344	25	≥ 25
Charpy Impact Strength	kJ/m ²	ISO 179-1 ASTM D6110	—	≥ 250
Barcol Hardness	—	ASTM D2583	—	≥ 40

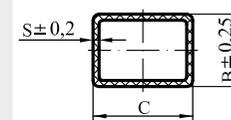
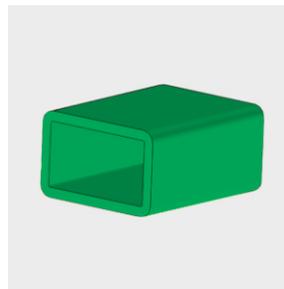
01 ROUND TUBE



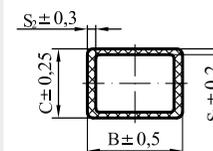
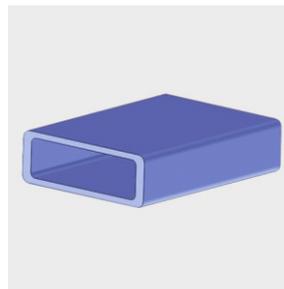
02 CORRUGATED TUBE



03 RECTANGULAR TUBE



04 RECTANGULAR TUBE



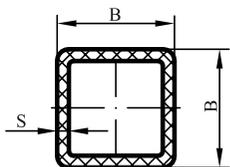
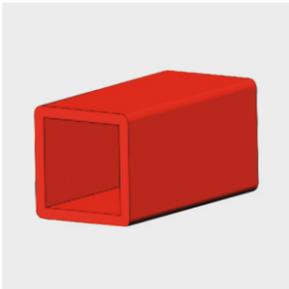
Designation	Dimensions, mm	
	D	S
PSK-P-1-30x2,5	30	2,5
PSK-P-1-36x3	36	3
PSK-P-1-38x(2,5;3;4)	38	2,5;3;4
PSK-P-1-45x3	45	3
PSK-P-1-46x(3;4)	46	3;4
PSK-P-1-52x(4;6;8)	52	4;6;8
PSK-P-1-63,5x(4;6;8)	63,5	4;6;8
PSK-P-1-80x(3;5;6)	80	3;5;6
PSK-P-1-88x(6;8;10)	88	6;8;10

Designation	Dimensions, mm				
	D	d	S ₁	S ₂	n
PSK-P-7-28x21,3x(2,35;3,35)	28	21,3	2,35	3,35	3,5

Designation	Dimensions, mm		
	B	C	S
PSK-P-2-28x18x2,5	28	18	2,5
PSK-P-2-40x25x3	40	25	3
PSK-P-2-42x25x3	42	25	3
PSK-P-2-55x25x3	55	25	3
PSK-P-2-59x25x3	59	25	3
PSK-P-2-73x25x3	73	25	3

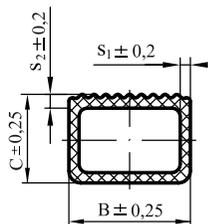
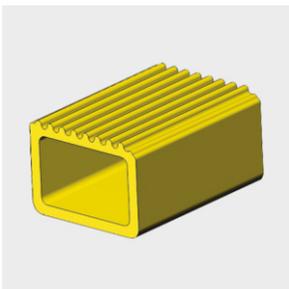
Designation	Dimensions, mm			
	B	C	S ₁	S ₂
PSK-P-2-55x25x(3;5)	55	25	3	5
PSK-P-2-73x25x(3;5)	73	25	3	5
PSK-P-2-85x25x(3;4)	85	25	3	4

05 SQUARE TUBE



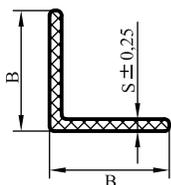
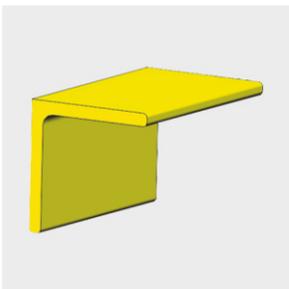
Designation	Dimensions, mm	
	B	S
PSK-P-2-36x36x3	36	3
PSK-P-2-76x76x6	76	6
PSK-P-2-50x50x5	50	5
PSK-P-2-76x76x8	76	8
PSK-P-2-100x100x8	100	8

06 RECTANGULAR CORRUGATED TUBE



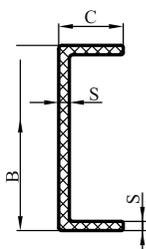
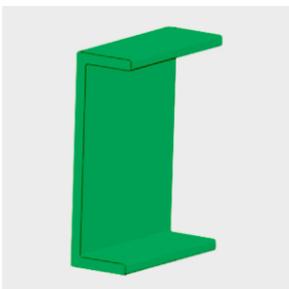
Designation	Dimensions, mm			
	B	C	S ₁	S ₂
PSK-P-2-28x26x(3;4)	28	26	3	4
PSK-P-2-36x26x(3;4)	36	26	3	4

07 ANGLE



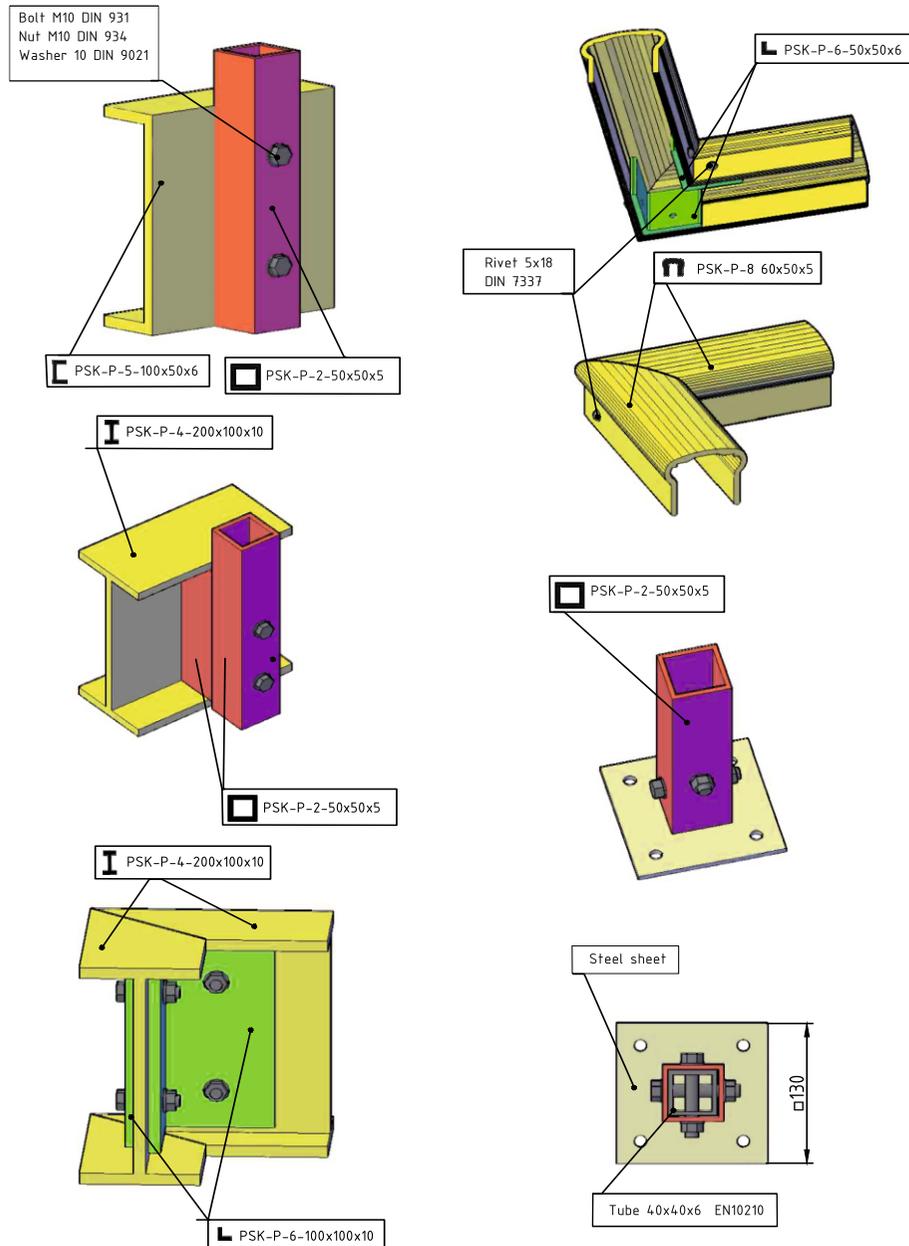
Designation	Dimensions, mm	
	B	S
PSK-P-6-50x50x6	50	6
PSK-P-6-100x100x10	100	10

08 U-PROFILE



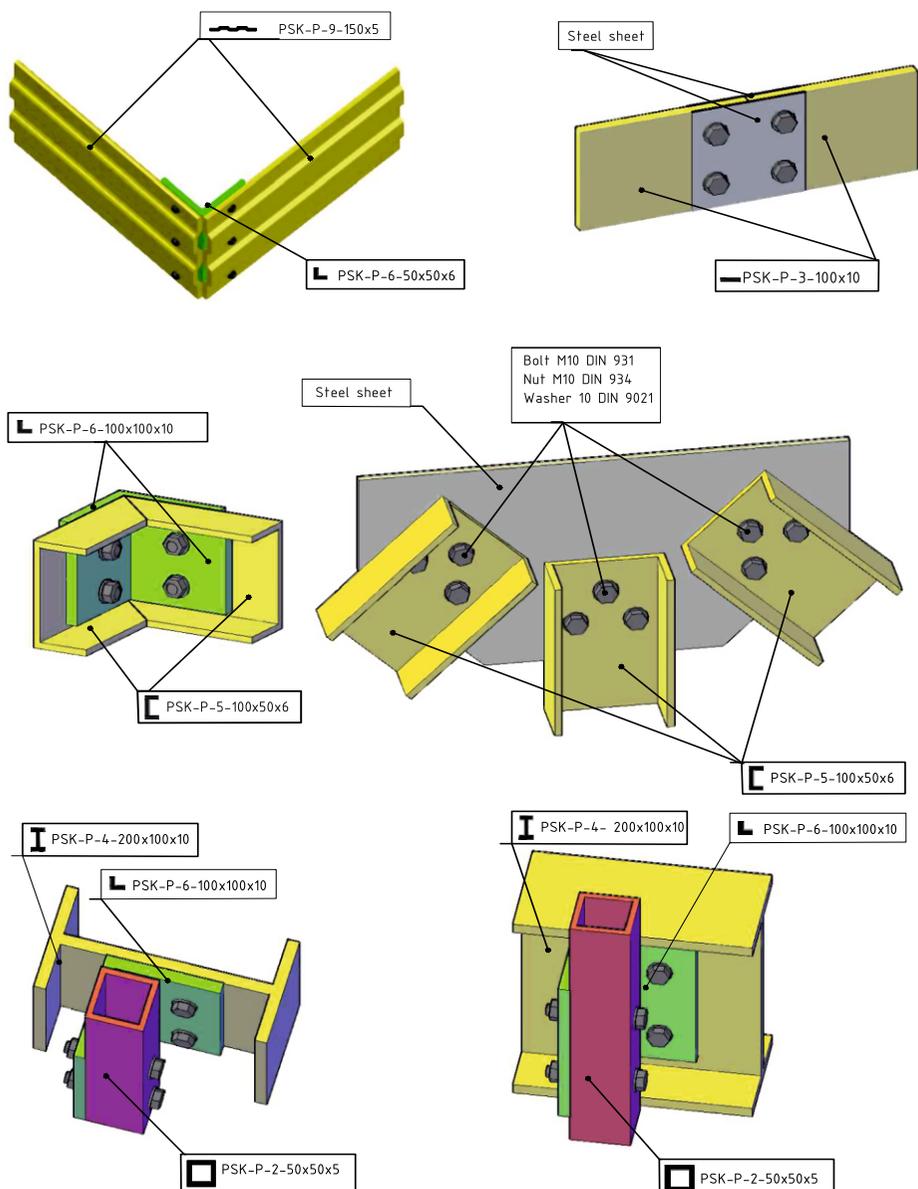
Designation	Dimensions, mm		
	B	C	S
PSK-P-5-60x50x5	60	50	5
PSK-P-5-100x50x6	100	50	6
PSK-P-5-152x40x6	152	40	6
PSK-P-5-200x60x10	200	60	10

Bolt M10 DIN 931
Nut M10 DIN 934
Washer 10 DIN 9021

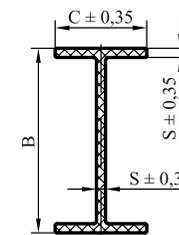
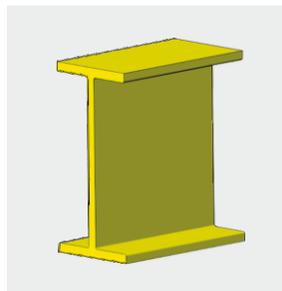


elements is 150-200 mm

TYPES OF JOINTS

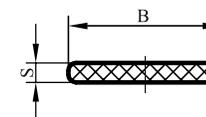
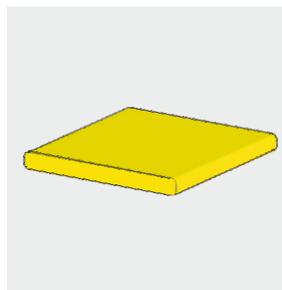


09 I-PROFILE



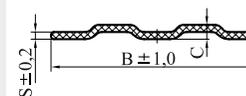
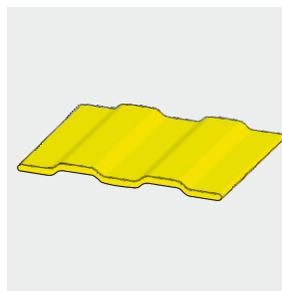
Designation	Dimensions, mm		
	B	C	S
PSK-P-4-100x50x6	100	50	6
PSK-P-4-150x60x5	150	60	5
PSK-P-4-150x75x8	150	75	8
PSK-P-4-200x60x5	200	60	5
PSK-P-4-200x100x10	200	100	10

10 FLAT PROFILE



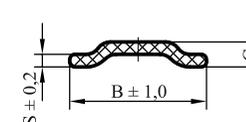
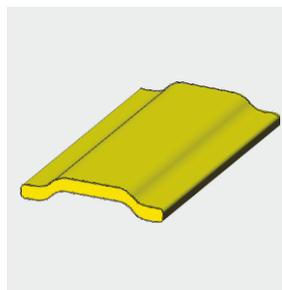
Designation	Dimensions, mm	
	B	S
PSK-P-3-40x5	40	5
PSK-P-3-100x10	100	10

11 TOW PLATE



Designation	Dimensions, mm		
	B	S	C
PSK-P-9-150x5	150	5	10

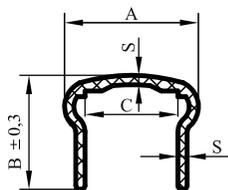
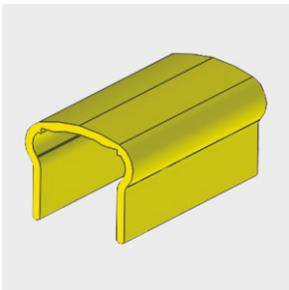
12 KICK PLATE



Designation	Dimensions, mm		
	B	S	C
PSK-P-10-55x5	55	5	10

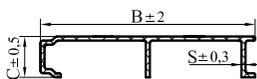
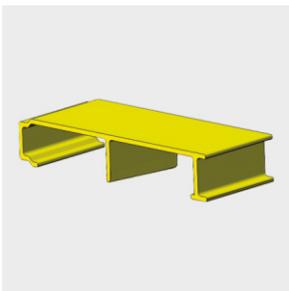
The length of all connected

13 HANDRAIL



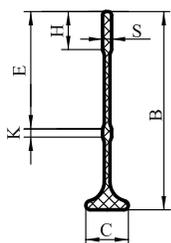
Designation	Dimensions, mm			
	B	C	S	A
PSK-P-8-60x50x5	60	50	5	72

14 FLOORING



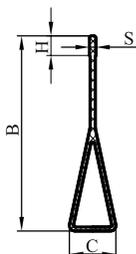
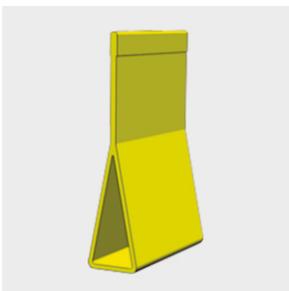
Designation	Dimensions, mm		
	B	C	S
PSK-P-11-210x40x4	210	40	4
PSK-P-11-550x20x3	550	20	3

15 SUPPORT BEAM



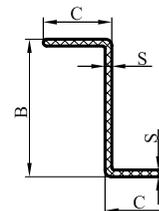
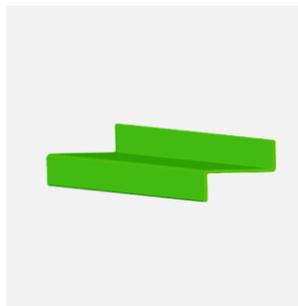
Designation	Dimensions, mm					
	B	C	S	H	E	K
PSK-P-11-60x30x5	60	30	5	23	-	-
PSK-P-11-80x30x5	80	30	5	23	-	-
PSK-P-11-90x30x5	90	30	5	23	-	-
PSK-P-11-110x30x5	110	30	5	23	60	5
PSK-P-11-120x26x5,5	120	26	5,5	23	71	5
PSK-P-11-120x30x5	120	30	5	23	55	5
PSK-P-11-135x30x5	135	30	5	23	65	15

16 Δ-SUPPORT BEAM



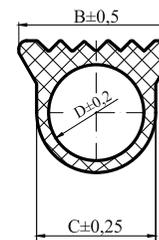
Designation	Dimensions, mm			
	B	C	S	H
PSK-P-11-150x35x5	150	35	5	15

17 Z-PROFILE



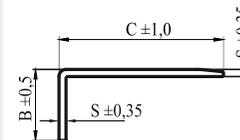
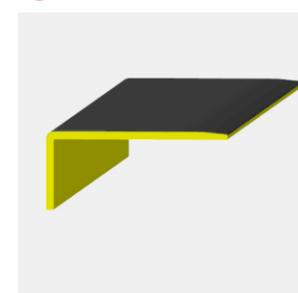
Designation	Dimensions, mm		
	B	C	S
PSK-E-11-50,8x38x4	50,8	38	4
PSK-P-11-76,2x38x4	76,2	38	4

18 LADDER RUNGS



Designation	Dimensions, mm		
	B	C	D
PSK-P-11-39x30x24	39	30	24

19 ANTI-SLIP TREAD COVER



Designation	Dimensions, mm		
	C	B	S
PSK-P-11-55x55x3	55	55	3
PSK-P-11-60x25x3	60	25	3
PSK-P-11-70x30x3	70	30	3