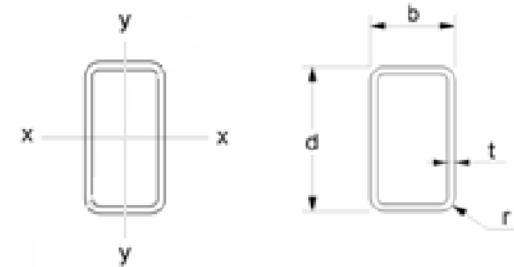


PULTRUDED FRP STRUCTURAL SECTIONS

PRODUCT SPECIFICATIONS

75x100x5, 100x100x5, 125x125x6.5 SHS



SECTION PROPERTIES

Designation			Radii		Gross Section Area A_g	About x-, y- and n- axis			
Depth d	Width b	Thickness t	Internal r_i	External r_e		Moment of Inertia about the x axis I_x	Moment of Inertia about the y axis I_y	Polar Moment of Inertia about the n axis Z_n	Torsion Constant J
(mm)	(mm)	(mm)	(mm)	(mm)	(mm ²)	(10 ⁶ mm ⁴)	(10 ⁶ mm ⁴)	(10 ⁶ mm ⁴)	(10 ⁶ mm ⁴)
100	75	5.25	4.75	10	1664.98	2.26	1.431	3.69	2.89
100	100	5.25	4.75	10	1931.68	2.86	2.86	5.73	4.65
125	125	6.5	4.75	10	3014.53	6.98	6.98	13.96	11.07

MECHANICAL PROPERTIES

Designation	Mass m		Ultimate Tensile Strength σ_T		Ultimate Compressive Strength σ_C		Shear Strength	Modulus Of Elasticity E		Moment Capacity M	
			Longitudinal	Transverse	Longitudinal	Transverse		Longitudinal	Transverse	X axis	Y axis
	(kg/m)	(kg/m ³)	(Mpa)	(Mpa)	(Mpa)	(Mpa)		(Mpa)	(N/mm ²)	(N/mm ²)	(kN.m)
100x75x5SHS	3.28	1970	650	41	550	104	84	35400	12900	13.17	9.44
100x100x5SHS	3.81	1970	650	41	550	104	84	35400	12900	17.74	17.74
125x125x6.5 SHS	5.94	1970	650	41	550	104	84	35000	12900	33.85	33.85

MATERIAL REDUCTION FACTORS

Material Partial Safety Factor	Short Term Loading	Long Term Loading
Load Multiplier	1.3	3.16
Material Reduction Factor	0.79	0.32

EUROCOMP Design Code and Handbook, Edited by John L. Clarke,
1st edition, 1996, Published by E & FN Spon, London SE1 8 HN, UK