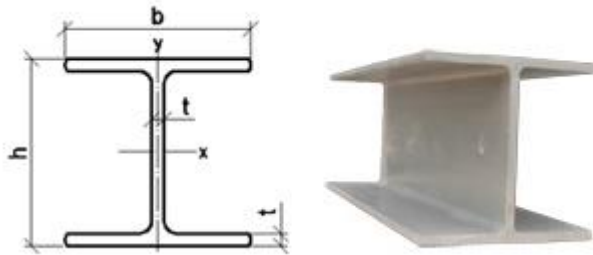


## Wide Flange Beam



Depth	Width	Thickness	Area	Depth	X - axis			Y - axis		
h	b	t	A	M	I	W	i	I	W	i
			mm <sup>2</sup>	kg/m	mm <sup>4</sup>	mm <sup>3</sup>	mm	mm <sup>4</sup>	mm <sup>3</sup>	mm
150	150	10,0	4369	8,08	16810000	224100	62,03	5544000	73920	35,64
200	200	10,0	5869	10,86	41500000	415000	84,1	13180000	131800	47,4

Mechanical properties (standart LVS EN ISO 527)	Units	M1, P1 Series
Tensile Strength (LW)	MPa	170,0 – 226,9
Tensile Strength (CW)	MPa	24,0 – 40,0
Crushing Stress (LW)	MPa	219,0 – 226,0
Crushing Stress (CW)	MPa	50,0 – 114,0
Flexural Strength (LW)	MPa	170,0 – 226,9
Flexural Strength (CW)	MPa	70,0 – 75,6
Strength At The Cut	MPa	15,0 – 25,0
Elastic Modulus (LW)	GPa	17,0 – 22,0
Elastic Modulus (CW)	GPa	25,0 – 16,0
Shear Modulus	GPa	2,9 – 3,4
Poisson's Ratio (LW)	mm/mm	0,35

Poisson's Ratio (CW)	mm/mm	0,15
Elongation		0,2 – 1,9%

<b>Physical (LVS EN ISO 527)</b>		
Barcol Hardness		45
Water Absorption	%Max	0,6
Density, Specific Gravity	Mg / M <sup>3</sup>	1,66-1,93
Coefficient of Thermal Expansion (LW)		8
Thermal Conductivity (PF)	W/MK	0,58

<b>Electrical properties</b>		
Dielectric Strength (LW) (test standard IEC 60234)	kV/mm	till 1,58
Dielectric Strength (PF) (test standard IEC 60234)	kV/mm	till 7,9
Arc Resistance (LW)	seconds	120
Dielectric Constant (PF)	60 Hz	5,2