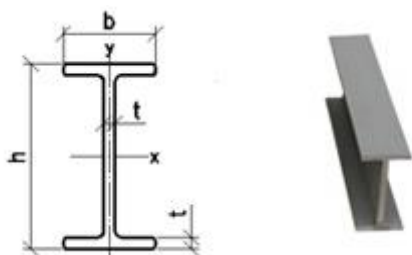


I-beam



Depth	Width	Thickness	Area	Depth	X - axis			Y - axis		
h	b	t	A	M	I	W	i	I	W	i
mm	mm	mm	mm ²	kg/m	mm ⁴	mm ³	mm	mm ⁴	mm ³	mm
50,8	50,8	3,18	471	0,9	209800	8259	21,08	68680	2704	12,07
101,6	50,8	6,35	1237	2,14	1885487	37117	39,04	136982	5393	10,62

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%

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

Electrical properties		
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