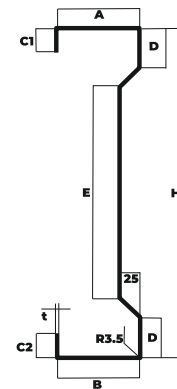




PRODUCT

**ZINC-COATED
SIGMA
PROFILE**



Sigma metal profiles are an innovation in the field of metal structures for light industrial halls. Sigma profiles are mainly used for creating columns and complex beams.

The rigidity and strength of the profiles allow them to be used for:

- structural steel elements for civil, industrial and agricultural construction work;
- secondary elements of the resistance structures of buildings as roof panels or wall trusses;

TECHNICAL CHARACTERISTICS	Section height	200 - 400 mm
	Thickness	1.5 - 3.5 mm
	Material quality	S350GD+Z275
	Standard cutting lengths	250- 15000 mm * for other lengths please contact BILKA technical dep.

- Sigma profiles may be pierced according to the drilling plan made by the engineer. Piercing may be carried out on all sides, as well as on the profile feet;
- the profiles may have equal or unequal sides;
- all the connections of the structural elements are with screws, ensuring a quick and easy assembly on site.

Perforation patterns	Perforation type	Available diameter										
		5	10	11	12	13	14	15	16	18	20	
ROUND		22										
		18x14	20x10	25x14	28x14	32x16	35x12	39x19	40x18	40x25		
OVAL		40x26	50x13	50x5								
SQUARE		40x40										
RECTANGULAR		16x24	28.5x18									
MULTIPLE COMBINATIONS												

PROFILE TYPE	Sectional dimensions									
	H (mm)	A (mm)	B (mm)	C1=C2 (mm)	D (mm)	E (mm)	t (mm)	t _n (mm)	r (mm)	G(kg/ml)
Σ200-1.5	200	55	55	17.0	32.0	91.0	1.46	1.5	3.5	4.12
Σ200-2	200	55	55	17.0	32.0	91.0	1.96	2.0	3.5	5.43
Σ200-2.5	200	55	55	18.0	32.0	92.0	2.46	2.5	3.5	6.75
Σ200-3	200	55	55	19.0	32.0	92.0	2.96	3.0	3.5	8.05
Σ200-3.5	200	55	55	20.0	32.0	93.0	3.46	3.5	3.5	9.34
Σ250-1.5	250	55	55	17.0	45.0	115.0	1.46	1.5	3.5	4.71
Σ250-2	250	55	55	17.0	45.0	115.0	1.96	2.0	3.5	6.22
Σ250-2.5	250	55	55	18.0	45.0	116.0	2.46	2.5	3.5	7.73
Σ250-3	250	55	55	19.0	45.0	116.0	2.96	3.0	3.5	9.23
Σ250-3.5	250	55	55	20.0	45.0	117.0	3.46	3.5	3.5	10.72
Σ300-1.5	300	66	66	17.0	45.0	165.0	1.46	1.5	3.5	5.56
Σ300-2	300	66	66	17.0	45.0	165.0	1.96	2.0	3.5	7.35
Σ300-2.5	300	66	66	18.0	45.0	166.0	2.46	2.5	3.5	9.15
Σ300-3	300	66	66	19.0	45.0	166.0	2.96	3.0	3.5	10.93
Σ300-3.5	300	66	66	20.0	45.0	167.0	3.46	3.5	3.5	12.69
Σ350-1.5	350	66	66	17.0	50.0	205.0	1.46	1.5	3.5	6.15
Σ350-2	350	66	66	17.0	50.0	205.0	1.96	2.0	3.5	8.13
Σ350-2.5	350	66	66	18.0	50.0	206.0	2.46	2.5	3.5	10.13
Σ350-3	350	66	66	19.0	50.0	206.0	2.96	3.0	3.5	12.10
Σ350-3.5	350	66	66	20.0	50.0	207.0	3.46	3.5	3.5	14.07
Σ400-1.5	400	76	76	17.0	50.0	255.0	1.46	1.5	3.5	6.97
Σ400-2	400	76	76	17.0	50.0	255.0	1.96	2.0	3.5	9.23
Σ400-2.5	400	76	76	18.0	50.0	256.0	2.46	2.5	3.5	11.50
Σ400-3	400	76	76	19.0	50.0	256.0	2.96	3.0	3.5	13.75
Σ400-3.5	400	76	76	20.0	50.0	257.0	3.46	3.5	3.5	15.99

PROFILE TYPE	Geometric characteristics of the raw section									
	A (mm ²)	y _c (mm)	Z _{c1} (mm)	Z _{c2} (mm)	I _y (cm ⁴)	W _{y1} (cm ³)	W _{y2} (cm ³)	I _z (cm ⁴)	i _y (cm)	i _z (cm)
Σ200-1.5	511.0	21.4	99.3	99.3	291.79	29.40	29.40	11.41	7.48	1.64
Σ200-2	678.2	21.2	99.0	99.0	384.66	38.85	38.85	15.26	7.46	1.62
Σ200-2.5	846.2	21.2	98.8	98.8	479.33	48.54	48.54	19.65	7.43	1.61
Σ200-3	1012.3	21.1	98.5	98.5	571.24	57.99	57.99	23.70	7.41	1.60
Σ200-3.5	1176.4	21.1	98.3	98.3	660.95	67.27	67.27	27.16	7.38	1.59
Σ250-1.5	584.0	20.2	124.3	124.3	499.36	40.19	40.19	12.36	9.14	1.62
Σ250-2	776.2	20.1	124.0	124.0	658.46	53.10	53.10	17.37	9.11	1.61
Σ250-2.5	969.2	20.0	123.8	123.8	820.36	66.29	66.29	22.15	9.08	1.60
Σ250-3	1160.3	20.0	123.5	123.5	978.45	79.23	79.23	27.36	9.06	1.59
Σ250-3.5	1349.4	19.9	123.3	123.3	1134.01	92.01	92.01	32.65	9.04	1.58
Σ300-1.5	689.1	23.2	149.3	149.3	861.42	57.72	57.72	21.65	11.02	1.84
Σ300-2	917.3	23.1	149.0	149.0	1135.70	76.22	76.22	28.36	10.99	1.82
Σ300-2.5	1146.4	23.0	148.8	148.8	1412.31	94.94	94.94	35.69	10.97	1.81
Σ300-3	1373.4	22.9	148.5	148.5	1687.42	113.63	113.63	43.16	10.95	1.80
Σ300-3.5	1598.5	22.9	148.3	148.3	1959.66	132.19	132.19	50.17	10.93	1.79
Σ350-1.5	762.1	22.8	174.3	174.3	1253.70	71.95	71.95	21.57	12.66	1.78
Σ350-2	1015.3	22.7	174.0	174.0	1656.31	95.19	95.19	29.36	12.63	1.76
Σ350-2.5	1269.4	22.7	173.8	173.8	2063.45	118.76	118.76	37.50	12.61	1.75
Σ350-3	1521.4	22.5	173.5	173.5	2465.89	142.13	142.13	44.69	12.58	1.73
Σ350-3.5	1771.5	22.5	173.3	173.3	2866.46	165.45	165.45	52.48	12.56	1.71
Σ400-1.5	864.3	25.1	199.3	199.3	1869.02	93.80	93.80	32.17	14.50	1.99
Σ400-2	1152.5	25.0	199.0	199.0	2471.03	124.17	124.17	42.63	14.47	1.97
Σ400-2.5	1441.6	24.9	198.8	198.8	3080.12	154.97	154.97	53.16	14.45	1.96
Σ400-3	1728.6	24.8	198.5	198.5	3683.14	185.55	185.55	63.49	14.43	1.94
Σ400-3.5	2013.7	24.8	198.3	198.3	4284.31	216.11	216.11	74.65	14.00	1.92

PROFILE TYPE	Resistances according to the raw section	
	Stretching N (kN)	Bending M (kNm)
Σ200-1.5	178.85	10.29
Σ200-2	237.36	13.60
Σ200-2.5	296.18	16.99
Σ200-3	354.31	20.30
Σ200-3.5	411.74	23.55
Σ250-1.5	204.4	14.07
Σ250-2	271.66	18.59
Σ250-2.5	339.23	23.20
Σ250-3	406.11	27.73
Σ250-3.5	472.29	32.20
Σ300-1.5	241.19	20.20
Σ300-2	321.05	26.68
Σ300-2.5	401.23	33.23
Σ300-3	480.70	39.77
Σ300-3.5	559.48	46.27
Σ350-1.5	266.74	25.18
Σ350-2	355.35	33.32
Σ350-2.5	444.28	41.57
Σ350-3	532.5	49.74
Σ350-3.5	620.03	57.91
Σ400-1.5	302.51	32.83
Σ400-2	403.37	43.46
Σ400-2.5	504.55	54.24
Σ400-3	605.02	64.94
Σ400-3.5	704.80	75.64