



ZETAVOR profile

Steel profiles

BASIC MECHANICAL CHARACTERISTICS														
H [mm]	e [mm]	b _{sup} [mm]	c _{sup} [mm]	b _{inf} [mm]	c _{inf} [mm]	p [kg/m]	A [cm ²]	Y _G [mm]	I _y [cm ⁴]	I _z [cm ⁴]	W _y [cm ³]	I _t [cm ⁴]	I _w [cm ⁶]	REFERENCE
100	2	55	21	48	17	3.485	4.57	-2.9	73.22	33.36	14.08	.06	550.63	100 × 2
100	2.5	55	21	48	17	4.357	5.68	-2.9	90.13	40.55	17.33	.11	662.06	100 × 2.5
100	3	55	21	48	17	5.228	6.78	-2.9	106.35	47.23	20.44	.20	762.85	100 × 3
125	2	55	21	48	17	3.878	5.06	-2.6	123.08	33.40	18.98	.06	886.76	125 × 2
125	2.5	55	21	48	17	4.847	6.30	-2.6	151.89	40.60	23.42	.13	1,068.98	125 × 2.5
125	3	55	21	48	17	5.817	7.52	-2.6	179.67	47.29	27.70	.22	1,234.93	125 × 3
150	2	55	21	48	17	4.270	5.55	-2.4	188.74	33.43	24.32	.07	1,314.65	150 × 2
150	2.5	55	21	48	17	5.338	6.91	-2.4	233.32	40.64	30.05	.14	1,587.44	150 × 2.5
150	3	55	21	48	17	6.406	8.26	-2.4	276.47	47.35	35.61	.24	1,836.98	150 × 3
175	2	55	21	48	17	4.663	6.04	-2.2	271.73	33.46	30.07	.08	1,836.54	175 × 2
175	2.5	55	21	48	17	5.829	7.53	-2.2	336.34	40.67	37.22	.15	2,220.19	175 × 2.5
175	3	55	21	48	17	6.994	9.00	-2.2	399.07	47.39	44.15	.26	2,572.17	175 × 3
200	2	80	21	70	21	5.856	7.53	-2.4	469.12	93.10	45.73	.10	6,299.67	200 × 2
200	2.5	80	21	70	21	7.320	9.40	-2.4	582.22	114.19	56.76	.19	7,689.39	200 × 2.5
200	3	80	21	70	21	8.784	11.25	-2.4	692.70	134.25	67.52	.33	8,996.25	200 × 3
200	4	80	21	70	21	11.712	14.89	-2.4	905.90	171.40	88.29	.78	1,1372.06	200 × 4
225	2	80	21	70	21	6.249	8.02	-2.3	617.34	93.12	53.58	.10	8,169.15	225 × 2
225	2.5	80	21	70	21	7.811	10.01	-2.3	766.73	114.22	66.54	.20	9,978.30	225 × 2.5
225	3	80	21	70	21	9.373	11.99	-2.3	912.89	134.30	79.22	.35	11,682.43	225 × 3
225	4	80	21	70	21	12.497	15.88	-2.2	1,195.63	171.46	103.74	.83	14,788.61	225 × 4
250	2	80	21	70	21	6.641	8.51	-2.1	790.60	93.15	61.83	.11	10,305.58	250 × 2
250	2.5	80	21	70	21	8.301	10.63	-2.1	982.52	114.26	76.84	.21	12,594.74	250 × 2.5
250	3	80	21	70	21	9.962	12.73	-2.1	1,170.53	134.34	91.54	.37	14,753.77	250 × 3
250	4	80	21	70	21	13.282	16.87	-2.1	1,534.97	171.52	120.03	.88	18,697.06	250 × 4
275	2	80	21	70	21	7.034	9.00	-2.0	990.44	93.17	70.51	.12	12,711.91	275 × 2
275	2.5	80	21	70	21	8.792	11.24	-2.0	1,231.52	114.29	87.66	.23	15,542.27	275 × 2.5
275	3	80	21	70	21	10.550	13.47	-2.0	1,467.95	134.38	104.49	.39	18,214.44	275 × 3
275	4	80	21	70	21	14.067	17.86	-2.0	1,927.03	171.58	137.15	.93	23,102.65	275 × 4
300	2	80	21	70	21	7.426	9.49	-1.9	1,218.39	93.19	79.59	.12	15,390.42	300 × 2
300	2.5	80	21	70	21	9.283	11.86	-1.9	1,515.64	114.31	99.01	.24	18,823.70	300 × 2.5
300	3	80	21	70	21	11.139	14.21	-1.9	1,807.45	134.41	118.06	.41	22,067.70	300 × 3
300	4	80	21	70	21	14.852	18.85	-1.9	2,374.90	171.63	155.11	.99	28,009.48	300 × 4
325	2.5	80	21	70	21	9.773	12.47	-1.8	1,836.82	114.34	110.87	.25	22,441.24	325 × 2.5
325	3	80	21	70	21	11.728	14.95	-1.8	2,191.35	134.44	132.26	.44	26,316.13	325 × 3
325	4	80	21	70	21	15.637	19.84	-1.8	2,881.66	171.67	173.90	1.04	33,420.77	325 × 4
350	2.5	80	21	70	21	10.264	13.09	-1.7	2,196.97	114.36	123.24	.26	26,396.68	350 × 2.5
350	3	80	21	70	21	12.317	15.69	-1.7	2,621.96	134.47	147.07	.46	30,961.82	350 × 3
350	4	80	21	70	21	16.422	20.83	-1.7	3,450.42	171.72	193.53	1.09	39,339.12	350 × 4
375	2.5	80	21	70	21	10.755	13.70	-1.7	2,598.02	114.38	136.13	.28	30,691.47	375 × 2.5
375	3	80	21	70	21	12.905	16.43	-1.6	3,101.59	134.49	162.51	.48	36,006.44	375 × 3
375	4	80	21	70	21	17.207	21.82	-1.6	4,084.28	171.76	213.99	1.14	45,766.62	375 × 4
400	3	80	21	70	21	13.494	17.17	-1.6	3,632.55	134.52	178.57	.50	41,451.37	400 × 3
400	4	80	21	70	21	17.992	22.81	-1.6	4,786.31	171.80	235.27	1.19	52,704.97	400 × 4

H Total profile height

e Profile thickness

b Flange width

c Tab width

b Profile weight per linear metre

c Profile crude section

P_G Position of the centre of gravity, G, with respect to the web midpoint

A_y Crude section moment of inertia with respect to the principal y-y axis

y_y Crude section resistant module with respect to the y-y axis

Z_z Crude section moment of inertia with respect to the principal z-z axis

i_z Crude section resistant module with respect to the z-z axis

I_t Crude section moment of inertia to torsion

I_s Position of the shear load centre, S, with respect to the web midpoint

I_s Position of the shear load centre, S, with respect to the web midpoint

[mm²]
× 10²

[mm⁴]
× 10⁴

[mm⁴]
× 10⁴

[mm³]
× 10³

[mm⁴]
× 10⁴

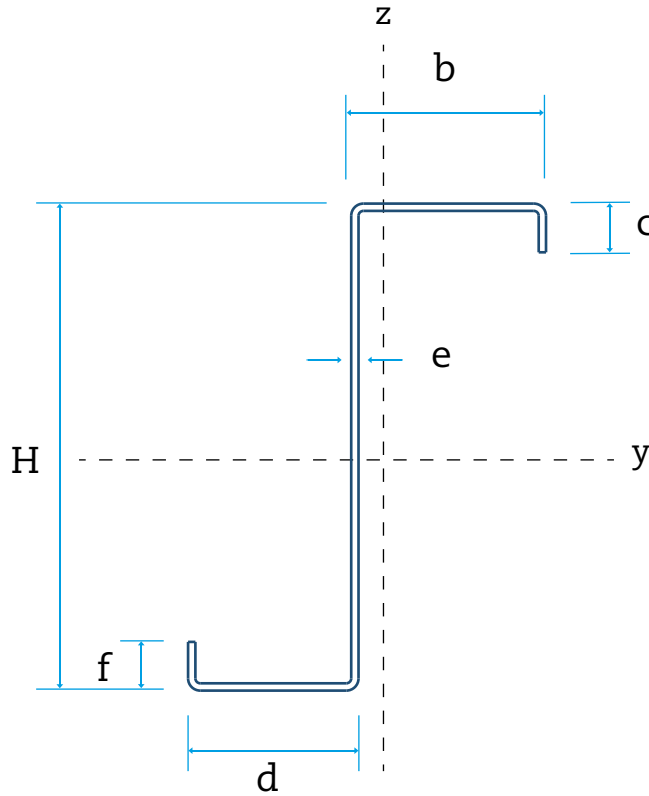
[mm⁶]
× 10⁶

* For further effective mechanical characteristics, please contact BRAUSA.

Proof strength
used 250 N/mm²

**EUROCODE
CHARACTERISTICS**

REFERENCE	A _{eff.} [cm ²]	I _{eff.y} [cm ⁴]	W _{eff.y} [cm ³]
100 × 2	4.24	73.11	14.03
100 × 2.5	5.60	90.13	17.33
100 × 3	6.78	106.35	20.44
125 × 2	4.30	122.30	18.76
125 × 2.5	5.81	151.89	23.42
125 × 3	7.31	179.67	27.70
150 × 2	4.34	186.80	23.88
150 × 2.5	5.94	233.32	30.05
150 × 3	7.56	276.47	35.61
175 × 2	4.36	268.07	29.40
175 × 2.5	6.03	335.92	37.10
175 × 3	7.73	399.07	44.15
200 × 2	5.02	445.16	42.26
200 × 2.5	6.97	562.59	53.94
200 × 3	9.07	678.00	65.48
200 × 4	13.58	901.92	87.90
225 × 2	5.01	581.54	48.89
225 × 2.5	6.98	739.17	63.03
225 × 3	9.12	891.43	76.55
225 × 4	13.78	1187.93	102.98
250 × 2	5.00	729.75	54.40
250 × 2.5	6.99	945.39	72.60
250 × 3	9.15	1,140.73	88.19
250 × 4	13.92	1,521.89	118.75
275 × 2	4.98	896.28	59.90
275 × 2.5	6.99	1,183.06	82.64
275 × 3	9.18	1,428.13	100.42
275 × 4	14.03	1,907.10	135.30
300 × 2	4.97	1,081.39	65.41
300 × 2.5	6.98	1,432.73	90.66
300 × 3	9.19	1,755.83	113.22
300 × 4	14.12	2,346.53	152.64
325 × 2.5	6.97	1,706.38	98.43
325 × 3	9.20	2,126.06	126.61
325 × 4	14.18	2,843.20	170.76
350 × 2.5	6.97	2,006.47	106.23
350 × 3	9.21	2,521.73	138.63
350 × 4	14.24	3,400.08	189.67
375 × 2.5	6.95	2,333.35	114.04
375 × 3	9.21	2,936.50	148.96
375 × 4	14.28	4,020.19	209.37
400 × 3	9.21	3,386.67	159.33
400 × 4	14.32	4,706.55	229.87
	[mm ²]	[mm ⁴]	[mm ³]
	× 10 ²	× 10 ⁴	× 10 ³



Manufacturing possibilities

H: 100 to 450 mm

e: 1.5 to 4 mm

b standard: 55 or 80 mm

d standard: 48 or 70 mm

A_{eff.} Profile cross section under uniform compression

I_{eff.y} Cross section moment of inertia under bending with respect to the y-y axis

W_{eff.y} Cross section resistant module under bending with respect to the y-y axis

Parametric verification of the purlins used in the roof and facade enclosures. Analysis in line with European standard Eurocode-3 Part 1-3 EN 1993-1-3 "Design of steel structures. Supplementary rules for cold formed thin gauge members and sheeting" (version 2006).