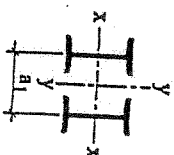
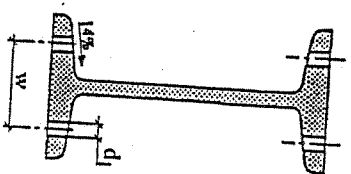
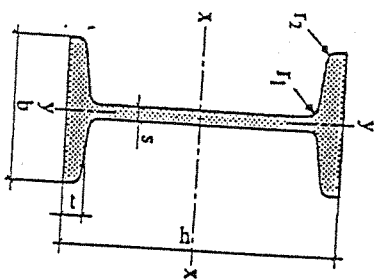


פרופילי פלדה סטנדרטיים

פרופיל פלדה IPN

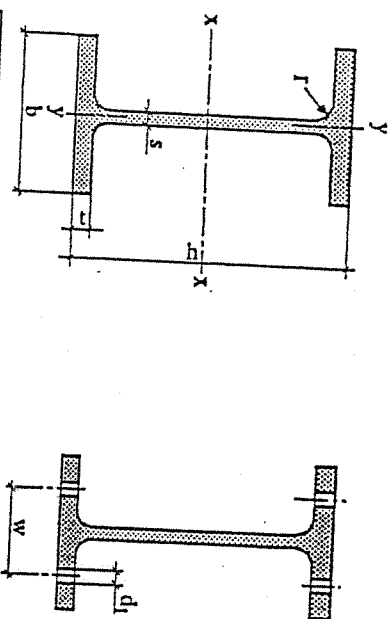
תקן: DIN 1025/1



- א - שטח החתך
 ג - משקל של מטר אורך אחד
 I - מומנט ההתמד (אינרציה)
 W - מודול החתך (מומנט התנגדות)
 i - רדיוס ההתמד (אינרציה)
 a₁ - המרחק בין צירי הפרופילים הנותר, $i_x = i_y$

ס"מ	h	b	s=t ₁	t ₁	t ₂	A	G	I _x	W _x	i _x	I _y	W _y	i _y	Z _x	Z _y	a ₁	d ₁	w	ס"מ
80	80	42	3.9	5.9	2.3	7.57	5.94	77.8	19.5	3.20	6.29	3.00	0.91	22.8	5.0	62	---	22	80
100	100	50	4.5	6.8	2.7	10.60	8.34	171.0	34.2	4.01	12.20	4.88	1.07	39.8	8.1	78	---	26	100
120	120	58	5.1	7.7	3.1	14.20	11.10	328.0	54.7	4.81	21.50	7.41	1.23	63.6	12.4	94	---	30	120
140	140	66	5.7	8.6	3.4	18.20	14.30	573.0	81.9	5.61	35.20	10.70	1.40	95.4	17.9	108	---	34	140
160	160	74	6.3	9.5	3.8	22.80	17.90	935.0	117.0	6.40	54.70	14.80	1.55	136.0	24.8	124	13	38	160
180	180	82	6.9	10.4	4.1	27.90	21.90	1450.0	161.0	7.20	81.30	19.80	1.71	187.0	33.3	140	13	44	180
200	200	90	7.5	11.3	4.5	33.40	26.20	2140.0	214.0	8.00	117.00	26.00	1.87	250.0	43.6	156	17	46	200
220	220	98	8.1	12.2	4.9	39.50	31.10	3060.0	278.0	8.80	162.00	33.10	2.02	324.0	55.7	172	17	52	220
240	240	106	8.7	13.1	5.2	46.10	36.20	4250.0	354.0	9.59	221.00	41.70	2.20	412.0	70.0	188	17	56	240
260	260	113	9.4	14.1	5.6	53.30	41.90	5740.0	442.0	10.40	288.00	51.00	2.32	514.0	85.9	202	21	58	260
280	280	119	10.1	15.2	6.1	61.00	47.90	7590.0	542.0	11.10	364.00	61.20	2.45	632.0	103.0	218	21	62	280
300	300	125	10.8	16.2	6.5	69.00	54.20	9800.0	653.0	11.90	451.00	72.20	2.56	762.0	122.0	234	21	64	300
320	320	131	11.5	17.3	6.9	77.70	61.00	12510.0	782.0	12.70	555.00	84.70	2.67	914.0	143.0	248	21	70	320
340	340	137	12.2	18.3	7.3	86.70	68.00	15700.0	923.0	13.50	674.00	98.40	2.80	1080.0	166.0	264	23	74	340
360	360	143	13.0	19.5	7.8	97.00	76.10	19610.0	1090.0	14.20	818.00	114.00	2.90	1280.0	194.0	278	23	74	360
380	380	149	13.7	20.5	8.2	107.00	84.00	24010.0	1260.0	15.00	975.00	131.00	3.02	1480.0	222.0	294	23	80	380
400	400	155	14.4	21.6	8.6	118.00	92.40	29210.0	1460.0	15.70	1160.00	149.00	3.13	1710.0	254.0	308	23	84	400
425	425	163	15.3	23.0	9.2	132.00	104.00	36970.0	1740.0	16.70	1440.00	176.00	3.30	2254.0	308	328	25	86	425
450	450	170	16.2	24.3	9.7	147.00	115.00	45850.0	2040.0	17.70	1730.00	203.00	3.43	2400.0	345.0	348	25	92	450
475	475	178	17.1	25.6	10.3	163.00	128.00	56480.0	2380.0	18.60	2090.00	235.00	3.60	3456.0	366	366	28	96	475
500	500	185	18.0	27.0	10.8	179.00	141.00	68740.0	2750.0	19.60	2480.00	268.00	3.72	4560.0	384	384	28	100	500
550	550	200	19.0	30.0	11.9	212.00	166.00	99180.0	3610.0	21.60	3490.00	349.00	4.02	4560.0	424	424	28	110	550
600	600	215	21.6	32.4	13.0	254.00	199.00	139000.0	4630.0	23.40	4670.00	434.00	4.30	4560.0	460	460	28	120	600

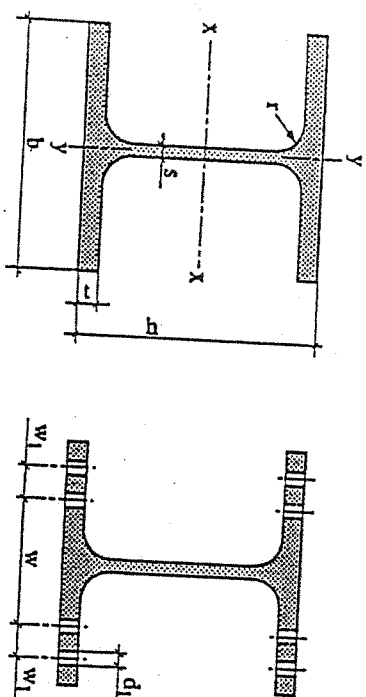
פרופיל פלדה IPE
תואם לתקן השוק המשותף
DIN 1025/1 תקן:



- A - שטח החתך
G - משקל של מטר אחד
I - מומנט ההתמד (אינרציה)
W - מודול החתך (מומנט התנגדות)
I - רדיוס ההתמד (אינרציה)
a₁ - המרחק בין צירי המרובעים (החותך) $I_x = I_y$

סידור	h mm	b mm	s mm	l mm	t mm	A cm ²	G kg/m	I_x cm ⁴	W_x cm ³	i_x cm	I_y cm ⁴	W_y cm ³	i_y cm	Z_x cm ³	d ₁ mm	w mm	סידור
80	80	46	3.8	5.2	5	7.64	6.0	80.1	20.0	3.24	8.49	3.69	1.05	23.2	---	---	80
100	100	55	4.1	5.7	7	10.30	8.1	171.0	34.2	4.07	15.9	5.79	1.24	39.4	---	---	100
120	120	64	4.4	6.3	7	13.20	10.4	318.0	53.0	4.90	27.7	8.65	1.45	60.8	---	---	120
140	140	73	4.7	6.9	7	16.40	12.9	541.0	77.3	5.74	44.9	12.30	1.65	88.4	---	---	140
160	160	82	5.0	7.4	9	20.10	15.8	869.0	109.0	6.58	68.3	16.70	1.84	123.8	38	11	160
180	180	91	5.3	8.0	9	23.90	18.8	1320.0	146.0	7.42	101.0	22.20	2.05	166.0	42	13	180
200	200	100	5.6	8.5	12	28.50	22.4	1940.0	194.0	8.26	142.0	28.50	2.24	220.0	48	13	200
220	220	110	5.9	9.2	12	33.40	26.2	2770.0	252.0	9.11	205.0	37.30	2.48	286.0	54	13	220
240	240	120	6.2	9.8	15	39.10	30.7	3890.0	324.0	9.97	284.0	47.30	2.69	366.0	58	17	240
270	270	135	6.6	10.2	15	45.90	36.1	5790.0	429.0	11.20	420.0	62.20	3.02	484.0	64	17	270
300	300	150	7.1	10.7	15	53.80	42.2	8360.0	557.0	12.50	604.0	80.50	3.35	628.0	72	17	300
330	330	160	7.5	11.5	18	62.60	49.1	11770.0	713.0	13.70	788.0	98.50	3.55	804.0	80	21	330
360	360	170	8.0	12.7	18	72.70	57.1	16270.0	904.0	15.00	1040.0	123.00	3.79	1020.0	86	21	360
400	400	180	8.6	13.5	21	84.50	66.3	23130.0	1160.0	16.50	1320.0	146.00	3.95	1308.0	92	23	400
450	450	190	9.4	14.6	21	98.80	77.6	33740.0	1500.0	18.50	1680.0	176.00	4.12	1702.0	96	23	450
500	500	200	10.2	16.0	21	116.00	90.7	48200.0	1930.0	20.40	2140.0	214.00	4.31	2200.0	102	25	500
550	550	210	11.1	17.2	24	134.00	106.0	67120.0	2440.0	22.30	2670.0	254.00	4.45	2780.0	108	25	550
600	600	220	12.0	19.0	24	156.00	122.0	92080.0	3070.0	24.30	3390.0	308.00	4.66	3520.0	116	25	600

פרופיל פלדה I – רחב אגזנים (IPB 4)
 תואם לתקן השוק המשותף
 DIN 1025/3 תקן:



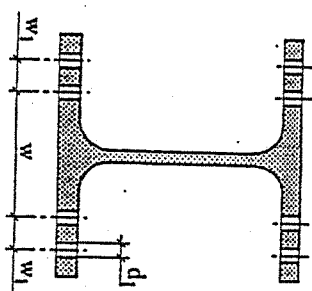
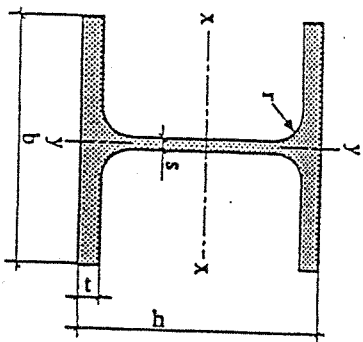
- A - שטח החתך
 G - משקל של מטר אחד
 I - מומנט ההתמד (אינרציה)
 W - מודול החתך (מומנט התנגדות)
 I - רדיוס ההתמד (אינרציה)
 I_x = I_y - המרחק בין צירי הפרופילים הנותר

סידור	h	b	s	t	r	A	G	I _x	W _x	I _x	I _y	W _y	I _y	Z _x	Z _y	d	w	w ₁	סידור
ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ	ממ
100	96	100	5.0	8.0	12	21.2	16.7	349	72.8	4.06	134	26.8	2.51	83.0	41.0	13	54	—	100
120	114	120	5.0	8.0	12	25.3	19.9	606	106.0	4.89	231	38.5	3.02	119.0	58.9	17	64	—	120
140	133	140	5.5	8.5	12	31.4	24.7	1030	155.0	5.73	389	55.6	3.52	173.0	84.7	21	80	—	140
160	152	160	6.0	9.0	15	38.8	30.4	1670	220.0	6.57	616	76.9	3.98	246.0	118.0	23	90	—	160
180	171	180	6.0	9.5	15	45.3	35.5	2510	294.0	7.45	925	103.0	4.52	324.0	157.0	25	100	—	180
200	190	200	6.5	10.0	18	53.8	42.3	3690	389.0	8.28	1340	134.0	4.98	430.0	204.0	25	110	—	200
220	210	220	7.0	11.0	18	64.3	50.5	5410	515.0	9.17	1950	178.0	5.51	568.0	271.0	25	120	—	220
240	230	240	7.5	12.0	21	76.8	60.3	7760	675.0	10.10	2770	231.0	6.00	744.0	352.0	25	120	—	240
260	250	260	7.5	12.5	24	86.8	68.2	10450	836.0	11.00	3670	282.0	6.50	920.0	430.0	25	100	35	240
280	270	280	8.0	13.0	24	97.3	76.4	13670	1010.0	11.90	4760	340.0	7.00	1110.0	518.0	25	110	40	260
300	290	300	8.5	14.0	27	112.0	88.3	18260	1260.0	12.70	6310	421.0	7.49	1380.0	642.0	25	120	45	280
320	310	300	9.0	15.5	27	124.0	97.6	22930	1480.0	13.60	6990	466.0	7.49	1630.0	710.0	25	120	50	300
340	330	300	9.5	16.5	27	133.0	105.0	27690	1680.0	14.40	7440	496.0	7.46	1850.0	756.0	25	120	50	320
360	350	300	10.0	17.5	27	143.0	112.0	33090	1890.0	15.20	7890	526.0	7.43	2080.0	803.0	25	120	50	340
400	390	300	11.0	19.0	27	159.0	125.0	45070	2310.0	16.80	8560	571.0	7.34	2560.0	873.0	25	120	50	360
450	440	300	11.5	21.0	27	178.0	140.0	63720	2900.0	18.90	9470	631.0	7.29	3220.0	966.0	25	120	50	400
500	490	300	12.0	23.0	27	198.0	155.0	86970	3550.0	21.00	10370	691.0	7.24	3940.0	1060.0	25	120	50	450
550	540	300	12.5	24.0	27	212.0	166.0	111900	4150.0	23.00	10820	721.0	7.15	4520.0	1110.0	28	120	50	500
600	590	300	13.0	25.0	27	226.0	178.0	141200	4790.0	25.00	11270	751.0	7.05	5360.0	1160.0	28	120	50	550
650	640	300	13.5	26.0	27	242.0	190.0	175200	5470.0	26.90	11720	782.0	6.97	6140.0	1200.0	28	120	50	600
700	690	300	14.5	27.0	27	260.0	204.0	215300	6240.0	28.80	12180	812.0	6.84	7040.0	1260.0	28	120	50	650
800	790	300	15.0	28.0	30	286.0	224.0	303400	7680.0	32.60	12640	843.0	6.65	8700.0	1310.0	28	120	50	700
900	890	300	16.0	30.0	30	320.0	252.0	422100	9480.0	36.30	13550	903.0	6.50	10800.0	1420.0	28	120	50	800
1000	990	300	16.5	31.0	30	347.0	272.0	553800	11190.0	40.00	14000	934.0	6.35	12800.0	1470.0	28	120	50	900
																			1000

פרופיל פלדה I – רחב אונגים IPB

תואם לתקן השוק הישראלי

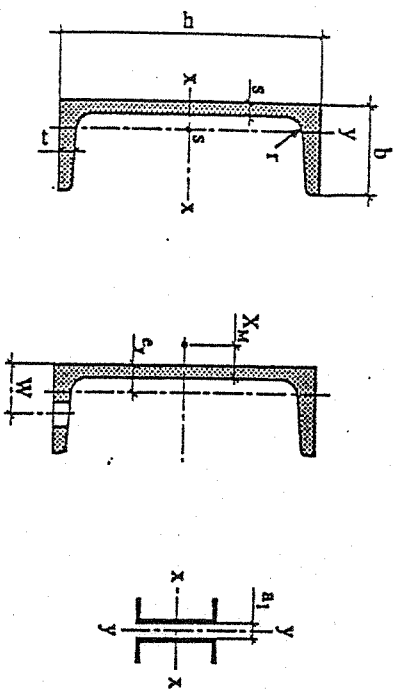
תקן: DIN 1025/3



A - שטח החתך
G - משקל של מטר אורך אחד
I - מומנט ההתמד (אינרציה)
W - מודול החתך (מומנט התנגדות)
I - רדיוס ההתמד (אינרציה)
a - המרחק בין צירי הפרופילס חתוכן $I_x = I_y$

ס"מ	h	b	s	t	r	A	G	I_x	W_x	i_x	I_y	W_y	i_y	Z_x	Z_y	d_1	w	w1	ס"מ
mm	mm	mm	mm	mm	mm	cm ²	kg/m	cm ⁴	cm ³	cm	cm ⁴	cm ³	cm	cm ³	cm ³	mm	mm	mm	mm
100	100	100	6.0	10.0	12	26.0	20.4	450	89.9	4.16	167	33.5	2.53	104	51	13	54	---	100
120	120	120	6.5	11.0	12	34.0	26.7	864	144.0	5.04	318	52.9	3.06	165	81	17	64	---	120
140	140	140	7.0	12.0	12	43.0	33.7	1510	216.0	5.93	550	78.5	3.58	246	120	21	80	---	140
160	160	160	8.0	13.0	15	54.3	42.6	2490	311.0	6.78	889	111.0	4.05	354	170	23	90	---	160
180	180	180	8.5	14.0	15	65.3	51.2	3830	426.0	7.66	1360	151.0	4.57	482	231	25	100	---	180
200	200	200	9.0	15.0	18	78.1	61.3	5700	570.0	8.54	2000	200.0	5.07	642	306	25	110	---	200
220	220	220	9.5	16.0	18	91.0	71.5	8090	736.0	9.43	2840	258.0	5.59	828	394	25	120	---	220
240	240	240	10.0	17.0	21	106.0	83.2	11260	938.0	10.30	3920	327.0	6.08	1050	499	25	90	35	240
260	260	260	10.0	17.5	24	118.0	93.0	14920	1150.0	11.20	5130	395.0	6.58	1280	603	25	100	40	260
280	280	280	10.5	18.0	24	131.0	103.0	19270	1380.0	12.10	6590	471.0	7.09	1530	718	25	110	45	280
300	300	300	11.0	19.0	27	149.0	117.0	25170	1680.0	13.00	8560	571.0	7.58	1870	871	25	120	50	300
320	320	300	11.5	20.5	27	161.0	127.0	30820	1930.0	13.80	9240	616.0	7.57	2140	940	25	120	50	320
340	340	300	12.0	21.5	27	171.0	134.0	36660	2160.0	14.60	9690	646.0	7.53	2400	986	25	120	50	340
360	360	300	12.5	22.5	27	181.0	142.0	43190	2400.0	15.50	10140	676.0	7.49	2680	1030	25	120	50	360
400	400	300	13.5	24.0	27	198.0	155.0	57680	2880.0	17.10	10820	721.0	7.40	3240	1100	25	120	50	400
450	450	300	14.0	26.0	27	218.0	171.0	79890	3550.0	19.10	11720	781.0	7.33	3980	1200	25	120	50	450
500	500	300	14.5	28.0	27	239.0	187.0	107200	4290.0	21.20	12620	842.0	7.27	4820	1290	28	120	50	500
550	550	300	15.0	29.0	27	254.0	199.0	136700	4970.0	23.20	13080	872.0	7.17	5600	1340	28	120	50	550
600	600	300	15.5	30.0	27	270.0	212.0	171000	5700.0	25.20	13530	902.0	7.08	6420	1390	28	120	50	600
650	650	300	16.0	31.0	27	286.0	225.0	210600	6480.0	27.10	13980	932.0	6.99	7320	1440	28	120	50	650
700	700	300	17.0	32.0	27	306.0	241.0	256900	7340.0	29.00	14440	963.0	6.87	8320	1490	28	120	50	700
800	800	300	17.5	33.0	30	334.0	262.0	359100	8980.0	32.80	14900	994.0	6.68	10220	1550	28	120	50	800
900	900	300	18.5	35.0	30	371.0	291.0	494100	10980.0	36.50	15820	1050.0	6.53	12580	1660	28	120	50	900
1000	1000	300	19.0	36.0	30	400.0	314.0	644700	12890.0	40.10	16280	1090.0	6.38	14860	1710	28	120	50	1000

פרופיל פלדה UPB
תקן: DIN 1026

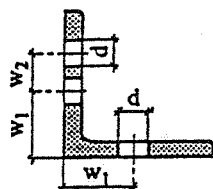


- A - שטח חתך
G - משקל של מטר אורך אחד
I - מומנט ההתמד (אינרציה)
W - מודול החתך (מומנט התנגדות)
I_x=I_y - רדיוס ההתמד (אינרציה)
a₁ - המרחק בין צירי הפרופילים הנחתים

סידור	h	b	s	t=t ₁	A	G	I _x	W _x	i _x	I _y	W _y	i _y	c _y	x _M	Z _x	Z _y	a ₁	d ₁	w	סידור
50	50	38	5.0	7.0	7.12	5.59	26.4	10.6	1.92	9.12	3.75	1.13	1.37	2.47	---	---	4	11	20	50
60	60	30	6.0	6.0	6.46	5.07	31.6	10.5	2.21	4.51	2.16	0.84	0.91	1.50	---	---	---	---	---	60
65	65	42	5.5	7.5	9.03	7.09	57.5	17.7	2.52	14.10	5.07	1.25	1.42	2.60	23.4	5.1	16	11	25	65
80	80	45	6.0	8.0	11.00	8.64	106.0	26.5	3.10	19.40	6.36	1.33	1.45	2.67	31.8	16.6	28	13	25	80
100	100	50	6.0	8.5	13.50	10.60	206.0	41.2	3.91	29.30	8.49	1.47	1.55	2.93	49.0	22.3	42	13	30	100
120	120	55	7.0	9.0	17.00	13.40	364.0	60.7	4.62	43.20	11.10	1.59	1.60	3.03	72.6	30.2	56	17	30	120
140	140	60	7.5	10.5	20.40	16.00	605.0	86.4	5.45	62.70	14.80	1.75	1.75	3.37	102.8	40.0	70	17	35	140
160	160	65	7.5	10.0	24.00	18.80	925.0	116.0	6.21	85.30	18.30	1.89	1.84	3.56	137.6	50.2	82	21	35	160
180	180	70	8.0	11.0	28.00	22.00	1350.0	150.0	6.95	114.00	22.40	2.02	1.92	3.75	179.2	62.4	96	21	40	180
200	200	75	8.5	11.5	32.20	25.30	1910.0	191.0	7.70	148.00	27.00	2.14	2.01	3.94	228.0	72.6	108	23	40	200
220	220	80	9.0	12.5	37.40	29.40	2690.0	245.0	8.48	197.00	33.60	2.30	2.14	4.20	292.0	94.2	122	23	45	220
240	240	85	9.5	13.0	42.30	33.20	3600.0	300.0	9.22	248.00	39.60	2.42	2.23	4.39	358.0	112.0	134	25	45	240
260	260	90	10.0	14.0	48.30	37.90	4820.0	371.0	9.99	317.00	47.70	2.56	2.36	4.66	442.0	136.0	146	25	50	260
280	280	95	10.0	15.0	53.30	41.80	6280.0	448.0	10.90	399.00	57.20	2.74	2.53	5.02	532.0	160.0	160	25	50	280
300	300	100	10.0	16.0	58.80	46.20	8030.0	535.0	11.70	495.00	67.80	2.90	2.70	5.41	632.0	188.0	174	25	55	300
320	320	100	14.0	17.5	75.80	59.50	10870.0	679.0	12.10	597.00	80.60	2.81	2.60	4.82	826.0	215.0	182	25	55	320
350	350	100	14.0	16.0	77.30	60.60	12840.0	734.0	12.90	570.00	75.00	2.72	2.40	4.45	918.0	205.0	204	25	55	350
380	380	102	13.5	16.0	80.40	63.10	15760.0	829.0	14.00	615.00	78.70	2.77	2.38	4.58	1014.0	214.0	230	25	55	380
400	400	110	14.0	18.0	91.50	71.80	20350.0	1020.0	14.90	846.00	102.00	3.04	2.65	5.11	1240.0	279.0	240	25	60	400

פרופילי פלדה LPN - זוויתנים שווי שוקיים

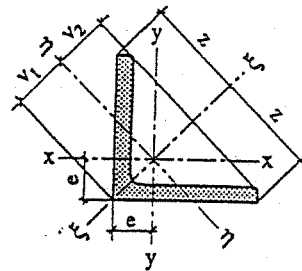
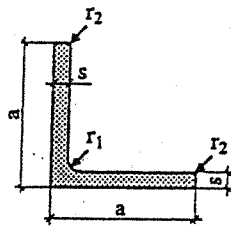
תקן: DIN 1028



- A - שטח החתך
- G - משקל של מטר אורך אחד
- U - שטח המעטפת
- I - מומנט ההתמד (אינרציה)
- W - מודול החתך (מומנט התנגדות)
- i - רדיוס ההתמד (אינרציה)
- a_1 - המרחק בין זוויתנים הנותן $I_x = I_y$

סימון	(12) $I_x = I_y$ cm ⁴	(13) $W_x = W_y$ cm ³	(14) $i_x = i_y$ cm	(15) I_z cm ⁴	(16) i_z cm	(17) I_η cm ⁴	(18) i_η cm	(19) I_{xy} cm ⁴	(20) d mm	(21) w ₁ mm	(22) w ₂ mm
* 20x3	0.39	0.28	0.59	0.62	0.74	0.15	0.37	0.24	6.4	12	—
* 25x3	0.79	0.45	0.75	1.27	0.95	0.31	0.47	0.48	8.4	15	—
25x4	1.01	0.58	0.74	1.61	0.93	0.40	0.47	0.61	8.4	15	—
* 30x3	1.41	0.65	0.90	2.24	1.14	0.57	0.57	0.84	8.4	17	—
30x4	1.81	0.86	0.89	2.85	1.12	0.76	0.58	1.05	8.4	17	—
(30x5)	2.16	1.04	0.88	3.41	1.11	0.91	0.57	1.25	8.4	17	—
* 35x4	2.96	1.18	1.05	4.68	1.33	1.24	0.68	1.72	11.0	20	—
35x5	3.56	1.45	1.04	5.63	1.31	1.49	0.67	2.07	11.0	20	—
* 40x4	4.48	1.55	1.21	7.09	1.52	1.86	0.78	2.62	11.0	22	—
40x5	5.43	1.91	1.20	8.64	1.51	2.22	0.77	3.20	11.0	22	—
45x4	6.43	1.97	1.36	10.20	1.71	2.68	0.88	3.85	11.0	25	—
* 45x5	7.83	2.43	1.35	12.40	1.70	3.25	0.87	4.58	11.0	25	—
* 50x5	11.00	3.05	1.51	17.40	1.90	4.59	0.98	6.41	13.0	30	—
50x6	12.80	3.61	1.50	20.40	1.89	5.24	0.96	7.56	13.0	30	—
50x7	14.60	4.15	1.49	23.10	1.88	6.02	0.96	8.58	13.0	30	—
(55x6)	17.30	4.40	1.66	27.40	2.08	7.24	1.07	10.10	17.0	30	—
60x5	19.40	4.45	1.82	30.70	2.30	8.03	1.17	11.30	17.0	35	—
* 60x6	22.80	5.29	1.82	36.10	2.29	9.43	1.17	13.40	17.0	35	—
60x8	29.10	6.88	1.80	46.10	2.26	12.10	1.16	17.00	17.0	35	—
(65x7)	33.40	7.18	1.96	53.00	2.47	13.80	1.26	19.60	21.0	35	—
(70x6)	36.90	7.27	2.13	58.50	2.68	15.30	1.37	21.60	21.0	40	—
* 70x7	42.40	8.43	2.12	67.10	2.67	17.60	1.37	24.80	21.0	40	—
70x9	52.60	10.60	2.10	83.10	2.64	22.00	1.36	30.60	21.0	40	—
75x7	52.40	9.67	2.28	83.60	2.88	21.10	1.45	31.30	23.0	40	—
75x8	58.90	11.00	2.26	93.30	2.85	24.40	1.46	34.50	23.0	40	—
80x6	55.80	9.57	2.44	88.50	3.08	23.10	1.57	32.70	23.0	45	—
* 80x8	72.30	12.60	2.42	115.00	3.06	29.60	1.55	42.70	23.0	45	—
80x10	87.50	15.50	2.41	139.00	3.03	35.90	1.54	51.60	23.0	45	—
90x7	92.60	14.10	2.75	147.00	3.46	38.30	1.77	54.40	25.0	50	—
* 90x9	116.00	18.00	2.74	184.00	3.45	47.80	1.76	68.20	25.0	50	—

* זוויתנים מועדפים בהזמנה



	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
סימן	a mm	s mm	r ₁ mm	r ₂ mm	A cm ²	G kg/m	U m ² /m	e cm	z cm	v ₁ cm	v ₂ cm
* 20x3	20	3	3.5	2.0	1.12	0.88	0.077	0.60	1.41	0.85	0.70
* 25x3	25	3	3.5	2.0	1.42	1.12	0.097	0.73	1.77	1.03	0.87
25x4	25	4	3.5	2.0	1.85	1.45	0.097	0.76	1.77	1.08	0.89
* 30x3	30	3	5.0	2.5	1.74	1.36	0.116	0.84	2.12	1.18	1.04
30x4	30	4	5.0	2.5	2.27	1.78	0.116	0.89	2.12	1.24	1.05
(30x5)	30	5	5.0	2.5	2.78	2.18	0.116	0.92	2.12	1.30	1.07
* 35x4	35	4	5.0	2.5	2.67	2.10	0.136	1.00	2.47	1.41	1.24
35x5	35	5	5.0	2.5	3.28	2.57	0.136	1.04	2.47	1.47	1.25
* 40x4	40	4	6.0	3.0	3.08	2.42	0.155	1.12	2.83	1.58	1.40
40x5	40	5	6.0	3.0	3.79	2.97	0.155	1.16	2.83	1.64	1.42
45x4	45	4	7.0	3.5	3.49	2.74	0.174	1.23	3.18	1.75	1.57
* 45x5	45	5	7.0	3.5	4.30	3.38	0.174	1.28	3.18	1.81	1.58
* 50x5	50	5	7.0	3.5	4.80	3.77	0.194	1.40	3.54	1.98	1.76
50x6	50	6	7.0	3.5	5.69	4.47	0.194	1.45	3.54	2.04	1.77
50x7	50	7	7.0	3.5	6.56	5.15	0.194	1.49	3.54	2.11	1.78
(55x6)	55	6	8.0	4.0	6.31	4.95	0.213	1.56	3.89	2.21	1.94
60x5	60	5	8.0	4.0	5.82	4.57	0.233	1.64	4.24	2.32	2.11
* 60x6	60	6	8.0	4.0	6.91	5.42	0.233	1.69	4.24	2.39	2.11
60x8	60	8	8.0	4.0	9.03	7.09	0.233	1.77	4.24	2.50	2.14
(65x7)	65	7	9.0	4.5	8.70	6.83	0.252	1.85	4.60	2.62	2.29
(70x6)	70	6	9.0	4.5	8.13	6.38	0.272	1.93	4.95	2.73	2.46
* 70x7	70	7	9.0	4.5	9.40	7.38	0.272	1.97	4.95	2.79	2.47
70x9	70	9	9.0	4.5	11.90	9.34	0.272	2.05	4.95	2.90	2.50
75x7	75	7	10.0	5.0	10.10	7.94	0.291	2.09	5.30	2.95	2.63
75x8	75	8	10.0	5.0	11.50	9.03	0.291	2.13	5.30	3.01	2.65
80x6	80	6	10.0	5.0	9.35	7.34	0.311	2.17	5.66	3.07	2.80
* 80x8	80	8	10.0	5.0	12.30	9.66	0.311	2.26	5.66	3.20	2.82
80x10	80	10	10.0	5.0	15.10	11.90	0.311	2.34	5.66	3.31	2.85
90x7	90	7	11.0	5.5	12.20	9.61	0.351	2.45	6.36	3.47	3.16
* 90x9	90	9	11.0	5.5	15.50	12.20	0.351	2.54	6.36	3.59	3.18

המשך הטבלה (שבועמודים 32-33)

סימון	(12) $I_x=I_y$ cm ⁴	(13) $W_x=W_y$ cm ³	(14) $i_x=i_y$ cm	(15) I_ζ cm ⁴	(16) i_ζ cm	(17) I_η cm ⁴	(18) i_η cm	(19) I_{xy} cm ⁴	(20) d mm	(21) w ₁ mm	(22) w ₂ mm
100x8	145	19.9	3.06	230	3.85	59.9	1.96	85	25	55	—
*100x10	177	24.7	3.04	280	3.82	73.3	1.95	104	25	55	—
100x12	207	29.2	3.02	328	3.80	86.2	1.95	121	25	55	—
*110x10	239	30.1	3.36	379	4.23	98.6	2.16	140	25	45	25
120x10	313	36.0	3.67	497	4.63	129.0	2.36	184	25	50	30
(120x11)	341	39.5	3.66	541	4.62	140.0	2.35	201	25	50	30
*120x12	368	42.7	3.65	584	4.60	152.0	2.35	216	25	50	30
130x12	472	50.4	3.97	750	5.00	194.0	2.54	278	25	50	40
140x13	638	63.3	4.27	1010	5.38	262.0	2.74	376	28	55	45
150x12	737	67.7	4.60	1170	5.80	303.0	2.95	433	28	55	55
(150x14)	845	78.2	4.58	1340	5.77	347.0	2.94	498	28	55	55
*150x15	898	83.5	4.57	1430	5.76	370.0	2.93	528	28	55	55
160x15	1100	95.6	4.88	1750	6.15	453.0	3.14	648	28	60	55
(160x17)	1230	108.0	4.86	1950	6.13	506.0	3.13	722	28	60	55
180x16	1680	130.0	5.51	2690	6.96	679.0	3.50	1000	28	60	75
*180x18	1870	145.0	5.49	2970	6.93	757.0	3.49	1110	28	60	75
200x16	2340	162.0	6.15	3740	7.78	943.0	3.91	1400	28	60	90
(200x18)	2600	181.	6.13	4150	7.75	1050.0	3.90	1550	28	60	90
*200x20	2850	199.0	6.11	4540	7.72	1160.0	3.89	1690	28	60	90
200x24	3330	235.0	6.06	5280	7.64	1380.0	3.90	2200	28	60	90

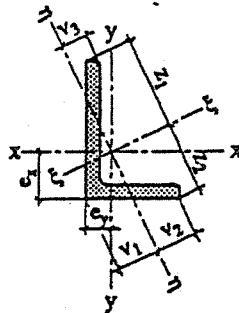
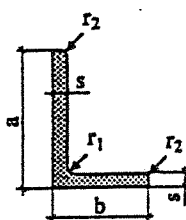
* זוויתנים מועדפים בהזמנה

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
סעיף	a mm	s mm	r ₁ mm	r ₂ mm	A cm ²	G kg/m	U m ² /m	e cm	z cm	v ₁ cm	v ₂ cm
100x8	100	8	12	6.0	15.5	12.2	0.390	2.74	7.07	3.87	3.52
*100x10	100	10	12	6.0	19.2	15.1	0.390	2.82	7.07	3.99	3.54
100x12	100	12	12	6.0	22.7	17.8	0.390	2.90	7.07	4.10	3.57
*110x10	110	10	12	6.0	21.2	16.6	0.430	3.07	7.78	4.34	3.89
120x10	120	10	13	6.5	23.2	18.2	0.469	3.31	8.49	4.69	4.22
(120x11)	120	11	13	6.5	25.4	19.9	0.469	3.36	8.49	4.75	4.24
*120x12	120	12	13	6.5	27.5	21.6	0.469	3.40	8.49	4.80	4.26
130x12	130	12	14	7.0	30.0	23.6	0.508	3.64	9.19	5.15	4.60
140x13	140	13	15	7.5	35.0	27.5	0.547	3.92	9.90	5.54	4.96
150x12	150	12	16	8.0	34.8	27.3	0.586	4.12	10.60	5.83	5.29
(150x14)	150	14	16	8.0	40.3	31.6	0.586	4.21	10.60	5.95	5.31
*150x15	150	15	16	8.0	43.0	33.8	0.586	4.25	10.60	6.01	5.33
160x15	160	15	17	8.5	46.1	36.2	0.625	4.49	11.30	6.35	5.67
(160x17)	160	17	17	8.5	51.8	40.7	0.625	4.57	11.30	6.46	5.70
180x16	180	16	18	9.0	55.4	43.5	0.705	5.02	12.70	7.11	6.39
*180x18	180	18	18	9.0	61.9	48.6	0.705	5.10	12.70	7.22	6.41
200x16	200	16	18	9.0	61.8	48.5	0.785	5.52	14.10	7.80	7.09
(200x18)	200	18	18	9.0	69.1	54.3	0.785	5.60	14.10	7.92	7.12
*200x20	200	20	18	9.0	76.4	59.9	0.785	5.68	14.10	8.04	7.15
200x24	200	24	18	9.0	90.6	71.1	0.785	5.84	14.10	8.26	7.21

* זוויגנים מועדפים בהזמנה

פרופילי פלדה LPN – זוויתנים שוניי שוקיים

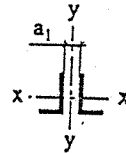
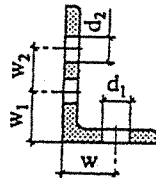
תקן: DIN 1028



- A - שטח החתך
- G - משקל של 1 מטר אורך
- U - שטח המעטפת
- I - מומנט ההתמד (אינרציה)
- W - מודול החתך (מומנט התנגדות)
- i - רדיוס ההתמד (אינרציה)
- a_1 - המרחק בין זוויתנים הנותן $I_x = I_y$

סימון	(17) I_x cm ⁴	(18) W_x cm ³	(19) i_x cm	(20) I_y cm ⁴	(21) W_y cm ³	(22) i_y cm	(23) I_z cm ⁴	(24) i_z cm	(25) I_{η} cm ⁴	(26) i_{η} cm	(27) I_{xy} cm ⁴	(28) a_1 mm	(29) d_1 mm	(30) d_2 mm	(31) w mm	(32) w_2 mm	(33) w_1 mm
* 30x20x3	1.25	0.62	0.94	0.44	0.29	0.56	1.43	1.00	0.25	0.42	0.43	5.2	6.4	8.4	12	17	—
* 30x20x4	1.59	0.81	0.93	0.55	0.38	0.55	1.81	0.99	0.33	0.42	0.53	4.2	6.4	8.4	12	17	—
* 40x20x3	2.79	1.08	1.27	0.47	0.30	0.52	2.96	1.31	0.30	0.42	0.64	14.6	6.4	11.0	12	22	—
* 40x20x4	3.59	1.42	1.26	0.60	0.39	0.52	3.79	1.30	0.39	0.42	0.81	13.8	6.4	11.0	12	22	—
(40x25x4)	3.89	1.47	1.26	1.16	0.62	0.69	4.35	1.33	0.70	0.53	1.22	10.4	6.4	11.0	12	22	—
(45x30x3)	4.47	1.46	1.43	1.60	0.70	0.86	5.15	1.53	0.93	0.65	1.55	9.0	8.4	11.0	17	25	—
* 45x30x4	5.78	1.91	1.42	2.05	0.91	0.85	6.65	1.52	1.18	0.64	2.01	8.0	8.4	11.0	17	25	—
* 45x30x5	6.99	2.35	1.41	2.47	1.11	0.84	8.02	1.51	1.44	0.64	2.39	7.2	8.4	11.0	17	25	—
* 50x30x4	7.71	2.33	1.59	2.09	0.91	0.82	8.53	1.67	1.27	0.64	2.29	13.1	8.4	13.0	17	30	—
* 50x30x5	9.41	2.88	1.58	2.54	1.12	0.82	10.40	1.66	1.56	0.64	2.77	12.2	8.4	13.0	17	30	—
(50x40x4)	8.54	2.47	1.57	4.86	1.64	1.19	10.90	1.78	2.46	0.84	3.82	—	11.0	13.0	22	30	—
* 50x40x5	10.40	3.02	1.56	5.89	2.01	1.18	13.30	1.76	3.02	0.84	3.60	—	11.0	13.0	22	30	—
* 60x30x5	15.60	4.04	1.90	2.60	1.12	0.78	16.50	1.96	1.69	0.63	3.55	21.4	8.4	17.0	17	35	—
* 60x40x5	17.20	4.25	1.89	6.11	2.02	1.13	19.80	2.03	3.50	0.86	5.98	11.2	11.0	17.0	22	35	—
* 60x40x6	20.10	5.03	1.88	7.12	2.38	1.12	23.10	2.02	4.12	0.85	6.94	10.2	11.0	17.0	22	35	—
(60x40x7)	22.00	5.79	1.87	8.07	2.74	1.11	26.30	2.00	4.73	0.85	7.81	9.2	11.0	17.0	22	35	—
* 65x50x5	23.10	5.11	2.04	11.90	3.18	1.47	28.80	2.28	6.21	1.06	9.810	3.6	13.0	21.0	30	35	—
(65x50x7)	31.00	6.99	2.02	15.80	4.31	1.44	38.40	2.25	8.37	1.06	13.00	1.8	13.0	21.0	30	35	—
(65x50x9)	38.20	8.77	2.00	19.40	5.39	1.42	47.00	2.22	10.50	1.05	15.70	—	13.0	21.0	30	35	—
* 70x50x6	33.50	7.04	2.21	14.30	3.81	1.44	39.90	2.41	7.94	1.07	12.67	—	13.0	21.0	30	40	—
* 75x50x7	46.40	9.24	2.36	16.50	4.39	1.41	53.30	2.53	9.56	1.07	15.90	13.0	13.0	23.0	30	40	—
(75x50x9)	57.40	11.60	2.34	20.20	5.49	1.39	65.70	2.50	11.90	1.07	19.40	11.0	13.0	23.0	30	40	—
* 75x55x5	35.50	6.84	2.37	16.20	3.89	1.60	43.10	2.61	8.68	1.17	14.20	8.4	17.0	23.0	30	40	—
* 75x55x7	47.90	9.39	2.35	21.80	5.32	1.59	57.90	2.59	11.80	1.17	18.90	6.6	17.0	23.0	30	40	—
(75x55x9)	59.40	11.80	2.33	26.80	6.66	1.57	71.30	2.55	14.80	0.86	23.10	5.0	17.0	23.0	30	40	—
* 80x40x6	44.90	8.73	2.55	7.59	2.44	1.05	47.60	2.63	4.90	0.84	10.40	29.0	11.0	23.0	22	45	—
* 80x40x8	57.60	11.40	2.53	9.68	3.18	1.04	60.90	2.60	6.41	0.84	13.00	27.2	11.0	23.0	22	45	—
* 80x60x7	59.00	10.70	2.51	28.40	6.34	1.74	72.00	2.77	15.40	1.28	23.81	5.7	11.0	23.0	35	45	—
* 80x65x8	68.10	12.30	2.49	40.10	8.41	1.91	88.00	2.82	20.30	1.36	30.80	—	21.0	23.0	35	45	—
(80x65x10)	82.20	15.10	2.46	48.30	10.30	1.89	106.00	2.79	24.80	1.35	36.80	—	21.0	23.0	35	45	—
* 90x60x6	71.70	11.70	2.87	25.80	5.61	1.72	82.80	3.09	14.60	1.30	25.20	17.8	17.0	25.0	35	50	—
* 90x60x8	92.50	15.40	2.85	33.00	7.31	1.70	107.00	3.06	19.00	1.29	32.20	16.0	17.0	25.0	35	50	—

* זוויתנים מועדפים בחזמנה



סימן	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	a	b	s	r ₁	r ₂	A	G	U	e _x	e _y	z ₁	z ₂	v ₁	v ₂	v ₃	tg α
	mm	mm	mm	mm	mm	cm ²	kg/m	m ² /m	cm	cm	cm	cm	cm	cm	cm	
* 30x20x3	30	20	3	3.5	2.0	1.42	1.11	0.097	0.99	0.50	2.04	1.51	0.86	1.04	0.56	0.431
* 30x20x4	30	20	4	3.5	2.0	1.85	1.45	0.097	1.03	0.54	2.02	1.52	0.91	1.03	0.58	0.423
* 40x20x3	40	20	3	3.5	2.0	1.72	1.35	0.117	1.43	0.44	2.61	1.77	0.79	1.19	0.46	0.259
* 40x20x4	40	20	4	3.5	2.0	2.25	1.77	0.117	1.47	0.48	2.57	1.80	0.83	1.18	0.50	0.252
(40x25x4)	40	25	4	4.0	2.0	2.46	1.93	0.127	1.36	0.62	2.69	1.90	1.10	1.35	0.68	0.381
(45x30x3)	45	30	3	4.5	2.0	2.19	1.72	0.146	1.43	0.70	3.09	2.23	1.21	1.59	0.80	0.436
* 45x30x4	45	30	4	4.5	2.0	2.87	2.25	0.146	1.48	0.74	3.07	2.26	1.27	1.58	0.83	0.436
* 45x30x5	45	30	5	4.5	2.0	3.53	2.77	0.146	1.52	0.78	3.05	2.27	1.32	1.58	0.85	0.430
* 50x30x4	50	30	4	4.5	2.0	3.07	2.41	0.156	1.68	0.70	3.36	2.35	1.24	1.67	0.78	0.356
* 50x30x5	50	30	5	4.5	2.0	3.78	2.96	0.156	1.73	0.74	3.33	2.38	1.28	1.66	0.80	0.353
(50x40x4)	50	40	4	4.0	2.0	3.46	2.71	0.177	1.52	1.03	3.50	2.85	1.67	1.84	1.26	0.629
* 50x40x5	50	40	5	4.0	2.0	4.27	3.35	0.177	1.56	1.07	3.49	2.88	1.73	1.84	1.27	0.625
* 60x30x5	60	30	5	6.0	3.0	4.29	3.37	0.175	2.15	0.68	3.90	2.67	1.20	1.77	0.72	0.256
* 60x40x5	60	40	5	6.0	3.0	4.79	3.76	0.195	1.96	0.97	4.08	3.01	1.68	2.09	1.10	0.437
* 60x40x6	60	40	6	6.0	3.0	5.68	4.46	0.195	2.00	1.01	4.06	3.02	1.72	2.08	1.12	0.433
(60x40x7)	60	40	7	6.0	3.0	6.55	5.14	0.195	2.04	1.05	4.04	3.03	1.77	2.07	1.14	0.429
* 65x50x5	65	50	5	6.0	3.0	5.54	4.35	0.224	1.99	1.25	4.52	3.61	2.08	2.38	1.50	0.583
(65x50x7)	65	50	7	6.0	3.0	7.60	5.97	0.224	2.07	1.33	4.50	3.62	2.19	2.37	1.52	0.574
(65x50x9)	65	50	9	6.0	3.0	9.58	7.52	0.224	2.15	1.41	4.48	3.63	2.28	2.36	1.57	0.567
* 70x50x6	70	50	6	6.0	3.0	6.88	5.40	0.235	2.24	1.25	4.82	3.68	2.20	2.52	1.42	0.497
* 75x50x7	75	50	7	6.5	3.5	8.30	6.51	0.244	2.48	1.25	5.10	3.77	2.13	2.63	1.38	0.433
(75x50x9)	75	50	9	6.5	3.5	10.50	8.23	0.244	2.56	1.32	5.06	3.80	2.22	2.62	1.44	0.427
* 75x55x5	75	55	5	7.0	3.5	6.30	4.95	0.254	2.31	1.33	5.19	4.00	2.27	2.71	1.58	0.530
* 75x55x7	75	55	7	7.0	3.5	8.66	6.80	0.254	2.40	1.41	5.16	4.02	2.37	2.70	1.62	0.525
(75x55x9)	75	55	9	7.0	3.5	10.90	8.59	0.254	2.47	1.48	5.14	4.04	2.46	2.70	1.66	0.518
* 80x40x6	80	40	6	7.0	3.5	6.89	5.41	0.234	2.85	0.88	5.21	3.53	1.55	2.42	0.89	0.259
* 80x40x8	80	80	40	8.0	3.5	9.01	7.07	0.234	2.94	0.95	5.15	3.57	1.65	2.38	1.04	0.253
* 80x60x7	80	60	7	8.0	4.0	9.38	7.36	0.274	2.51	1.52	5.55	4.42	2.70	2.92	1.68	0.546
* 80x65x8	80	65	8	8.0	4.0	11.00	8.66	0.283	2.47	1.73	5.59	4.65	2.79	2.94	2.05	0.645
(80x65x10)	80	65	10	8.0	4.0	13.60	10.70	0.283	2.55	1.81	5.56	4.68	2.90	2.95	2.11	0.640
* 90x60x6	90	60	6	7.0	3.5	86.90	6.82	0.294	2.89	1.41	6.14	4.50	2.46	3.16	1.60	0.442
* 90x60x8	90	60	8	7.0	3.5	11.40	8.96	0.294	2.97	1.49	6.11	4.54	2.56	3.15	1.69	0.437

המשך הטבלה (שבעמודים 37-36)

סימן	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
	I_x cm ⁴	W_x cm ³	i_x cm	I_y cm ⁴	W_y cm ³	i_y cm	I_z cm ⁴	i_z cm	I_η cm ⁴	i_η cm	I_{xy} cm ⁴	a_1 mm	d_1 mm	d_2 mm	w mm	w_2 mm	w_1 mm
* 100x50x6	89.7	13.8	3.20	15.3	3.86	1.32	95.2	3.30	9.78	1.06	21.0	37.6	13	25	30	55	—
* 100x50x8	116.0	18.0	3.18	19.5	5.04	1.31	123	3.28	12.06	1.05	26.7	35.4	13	25	30	55	—
* 100x50x10	141.0	22.2	3.16	23.4	6.17	1.29	149	3.25	15.50	1.04	31.6	33.8	13	25	30	55	—
100x65x7	113.0	16.6	3.17	37.6	7.54	1.84	128	3.39	21.60	1.39	38.1	21.8	21	25	35	55	—
* 100x65x9	141.0	21.0	3.15	46.7	9.52	1.82	160	3.36	27.20	1.39	47.0	19.8	21	25	35	55	—
(100x65x11)	167.0	25.3	3.13	55.1	11.40	1.80	190	3.34	32.60	1.38	55.1	17.8	21	25	35	55	—
(100x75x7)	118.0	17.0	3.15	56.9	10.00	2.19	145	3.49	30.10	1.59	48.6	8.8	23	25	40	55	—
* 100x75x9	148.0	21.5	3.13	71.0	12.70	2.17	181	3.47	37.80	1.59	60.3	7.0	23	25	40	55	—
(100x75x11)	176.0	25.9	3.11	84.0	15.30	2.15	214	3.44	45.40	1.58	70.9	5.2	23	25	40	55	—
* 120x80x8	226.0	27.6	3.82	80.8	13.20	2.29	261	4.10	45.80	1.72	79.3	24.0	23	25	45	50	30
* 120x80x10	276.0	34.1	3.80	98.1	16.20	2.27	318	4.07	56.10	1.71	96.0	22.2	23	25	45	50	30
* 120x80x12	323.0	40.4	3.77	114.0	19.10	2.25	371	4.04	66.10	1.71	111.0	20.2	23	25	45	50	30
* 130x65x8	263.0	31.1	4.17	44.8	8.72	1.72	280	4.31	28.60	1.38	61.5	48.6	21	25	35	50	40
* 130x65x10	321.0	38.4	4.15	54.2	10.70	1.71	340	4.27	35.00	1.37	74.0	46.8	21	25	35	50	40
(130x65x12)	376.0	45.5	4.12	63.0	12.70	1.69	397	4.24	41.20	1.37	85.3	44.6	21	25	35	50	40
(130x90x12)	420.0	48.0	4.09	165.0	24.40	2.56	492	4.43	92.60	1.92	154.0	18.6	25	25	50	50	40
* 150x75x9	455.0	46.8	4.83	78.3	13.20	2.00	484	4.98	50.00	1.60	107.0	56.4	23	28	40	55	55
* 150x75x11	545.0	56.6	4.80	93.0	15.90	1.98	578	4.95	59.80	1.59	127.0	54.4	23	28	40	55	55
* 150x100x10	552.0	54.1	4.78	198.0	25.80	2.86	637	5.13	112.00	2.15	194.0	29.8	25	28	55	55	55
* (150x100x12)	650.0	64.2	4.76	232.0	30.60	2.84	749	5.10	132.00	2.15	227.0	28.0	25	28	55	55	55
(150x100x4)	744.0	74.1	4.73	264.0	35.20	2.82	856	5.07	152.00	2.14	258.0	26.2	25	28	55	55	55
(160x80x12)	720.0	70.0	5.11	122.0	19.60	2.10	763	5.26	78.90	1.69	166.0	57.9	23	28	45	60	55
(180x90x10)	880.0	75.1	5.80	151.0	21.20	2.40	934	5.97	97.40	1.93	205.0	69.0	25	28	50	60	75
* (180x90x21)	1040.0	89.3	5.77	177.0	25.10	2.38	1100	5.94	114.00	1.92	242.0	67.0	25	28	50	60	75
* 200x100x10	2200	93.2	6.46	210.0	26.30	2.68	1300	6.66	133.00	2.14	289.0	77.4	25	28	55	60	90
* 200x100x12	1440.0	111.0	6.43	247.0	31.30	2.67	1530	6.63	158.00	2.13	339.0	75.2	25	28	55	60	90
* (200x100x14)	1650.0	128.0	6.41	282.0	36.10	2.65	1760	6.60	181.00	2.12	386.0	73.0	25	28	55	60	90

* זוויתנים מועדפים בהזמנה

סימון	(1) a mm	(2) b mm	(3) s mm	(4) r ₁ mm	(5) r ₂ mm	(6) A cm ²	(7) G kg/m	(8) U m ² /m	(9) e _x cm	(10) e _y cm	(11) z ₁ cm	(12) z ₂ cm	(13) v ₂ cm	(14) v ₂ cm	(15) v ₃ cm	(16) tg α
* 100x50x6	100	50	6	9.0	4.5	8.73	6.85	0.292	3.49	1.04	6.50	4.39	1.91	2.98	1.15	0.263
* 100x50x8	100	50	8	9.0	4.5	11.50	8.99	0.292	3.59	1.13	6.48	4.44	2.00	2.95	1.18	0.258
* 100x50x10	100	50	10	9.0	4.5	14.10	11.10	0.292	3.67	1.20	6.43	4.49	2.08	2.91	1.22	0.252
100x65x7	100	65	7	10.0	5.0	11.10	8.77	0.321	3.23	1.51	6.83	4.91	2.66	3.48	1.73	0.419
* 100x65x9	100	65	9	10.0	5.0	14.20	11.10	0.321	3.32	1.59	6.78	4.94	2.76	3.46	1.78	0.415
(100x65x11)	100	65	11	10.0	5.0	17.10	13.40	0.321	3.40	1.67	6.74	4.97	2.85	3.45	1.83	0.410
(100x75x7)	100	75	7	10.0	5.0	11.90	9.22	0.341	3.06	1.83	6.96	5.42	3.10	3.61	2.18	0.553
* 100x75x9	100	75	9	10.0	5.0	15.10	11.80	0.341	3.15	1.91	6.91	5.45	3.22	3.63	2.22	0.549
(100x75x11)	100	75	11	10.0	5.0	18.20	14.30	0.341	3.23	1.99	6.87	5.49	3.32	3.65	2.27	0.545
* 120x80x8	120	80	8	11.0	5.5	15.50	12.20	0.391	3.83	1.87	8.23	5.99	3.27	4.20	2.16	0.441
* 120x80x10	120	80	10	11.0	5.5	19.10	15.00	0.391	3.92	1.95	8.18	6.03	3.37	4.19	2.19	0.438
* 120x80x12	120	80	12	11.0	5.5	22.70	17.80	0.391	4.00	2.03	8.14	6.06	3.46	4.18	2.25	0.433
* 130x65x8	130	65	8	12.0	5.5	15.10	11.90	0.381	4.56	1.37	8.50	5.71	2.49	3.86	1.47	0.263
* 130x65x10	130	65	10	12.0	5.5	18.60	14.60	0.381	4.65	1.45	8.43	5.76	2.58	3.82	1.54	0.259
(130x65x12)	130	65	12	12.0	5.5	22.10	17.30	0.381	4.74	1.53	8.37	5.81	2.66	3.80	1.60	0.255
(130x90x12)	130	90	12	12.0	5.5	25.10	19.70	0.430	4.24	2.26	8.88	6.72	3.85	4.60	2.56	0.468
* 150x75x9	150	75	9	10.5	5.5	9.50	1.53	0.441	5.28	1.57	9.79	6.62	2.90	4.46	1.72	0.265
* 150x75x11	150	75	11	10.5	5.5	23.60	18.60	0.441	5.37	1.65	9.73	6.66	2.97	4.44	1.77	0.261
* 150x100x10	150	100	10	13.0	6.5	24.20	19.00	0.489	4.80	2.34	10.30	7.50	4.10	5.25	2.68	0.442
* 150x100x12	150	100	12	13.0	6.5	28.70	22.60	0.489	4.89	2.42	10.20	7.53	4.19	5.24	2.73	0.439
(150x100x14)	150	100	14	13.0	6.5	33.20	26.10	0.489	4.97	2.50	10.20	7.56	4.28	5.23	2.77	0.435
(160x80x12)	160	80	12	13.0	6.5	27.50	21.60	0.469	5.72	1.77	10.40	7.10	3.15	4.75	1.89	0.259
180x90x10	180	90	10	14.0	7.0	26.20	20.60	0.528	6.28	1.85	11.80	7.89	3.38	5.42	2.00	0.262
* (180x90x12)	180	90	12	14.0	7.0	31.20	24.50	0.528	6.37	1.93	11.70	7.95	3.48	5.38	2.07	0.261
* 200x100x10	200	100	10	15.0	7.5	29.20	23.00	0.587	6.93	2.01	13.20	8.76	3.75	5.98	2.22	0.266
* 200x100x12	200	100	12	15.0	7.5	34.80	27.30	0.587	7.03	2.10	13.10	8.82	3.84	5.95	2.26	0.264
* 200x100x14	200	100	14	15.0	7.5	40.30	31.60	0.587	7.12	2.18	13.00	8.88	3.93	5.92	2.32	0.262

* זווייתנים מועדפים בהזמנה