



PT. JAYA SINAR ABADI ALUMINDO

CATALOG

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INFORMASI GENERAL

Aluminium alloy 6063 merupakan salah satu jenis aluminium alloy yang dibuat dengan memadukan logam silikon dan magnesium sebagai bahan paduan utama. Juga, alloy 6063 merupakan *heat-treatable* alloy yang berkombinasi baik dalam ekstrudabilitas dan memiliki sifat mekanis dengan kekuatan sedang dan tahan terhadap korosi. Selain itu, alloy 6063 bekerja baik dalam *polishing, anodizing, chemical brightening and dyeing*. Dengan ini, profil lapisan tipis dan bentuk padat yang rumit dapat dibuat dengan mudah menggunakan alloy 6063.

ALLOY 6063

Aluminium-Magnesium-Silicon alloy (AlMgSiO)

Chemical Composition

%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Other	%Aluminium	
0.35–0.50		0.10–0.30	0.10	0.10	0.35–0.55	0.05	0.10	0.10	0.05	Remainder

Mechanical Properties

Temper	Ultimate Tense Strength (MPa)	0.2% Proof Stress	%Elongation
T4	130	69	14
T5	150	110	7
T6	185	160	7

Physical Properties

Density	2.71 X 10 ⁻⁶ kg/mm ³
Melting Range	600 – 650 °C
Specific Heat between 0 - 100°C	879 J/kg °C
Coefficient of linear expansion between 20 - 100°C	
Thermal Conductivity at 25°C	23 X 10 ⁻⁶ / °C
Electrical Resistivity at 20°C	0.033Ωm
Modulus of Elasticity	69 X 10 ³ MPa

PT. JASA menyediakan 3 tipe tampilan akhir yaitu;

1. Tampilan Mentahan

Lapisan aluminium alami dari mesin ekstrusi tanpa proses anodisasi atau pewarnaan lebih lanjut

2. Tampilan Anodize

Melalui proses elektro-kimia film oksida alami akan terbentuk dan menebal secara signifikan pada permukaan logam yang memberikan ke permukaan logam kekerasan ekstrim, korosi dan ketahanan aus dari oksida

3. Tampilan Cat Warna

Proses pewarnaan adalah untuk menghasilkan hasil akhir yang ringan, tahan abrasi dan korosi dan intensitas warna yang tidak berubah.



Lampiran 1.1 Mesin Ektrusi Aluminium



Lampiran 1.2 Mesin Ektrusi Aluminium





Lampiran 1.3 Mesin Ektrusi Aluminium

Daftar Isi

















KONTEN	HALAMAN
ROUND TUBE	1
DECORATIVE ROUND TUBE	6
ROUND BAR	10
PLATE BAR	11
EQUAL ANGLE	12
UNEQUAL ANGLE	13
STEVENNER	14
CHANNAL	15
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RECTANGULAR HOLLOW	19
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*ROUND TUBE**1*

<i>SECTION</i>	<i>DRAWING</i>	<i>DIMENSION MM</i>	<i>WEIGHT KG/M</i>	<i>PERIMETER MM</i>
1000		24.70 X 0.80	0.165	78.54
1001		17.00 X 2.00	0.256	53.41
1002		16.00 X 2.20	0.258	50.27
1003		16.00 X 1.20	0.151	50.27
1004		19.00 X 1.20	0.182	59.69
1005		25.00 X 1.20	0.243	78.54
1006		25.00 X 1.50	0.300	78.54
1007		17.00 X 2.15	0.272	53.41
1008		19.00 X 1.50	0.224	59.69
1009		12.70 X 1.20	0.118	39.90
1010		23.80 X 0.60	0.119	74.77
1011		8.00 X 0.60	0.038	25.13
1013		7.00 X 0.60	0.033	21.99
1014		12.70 X 0.60	0.062	39.90
1015		14.00 X 0.60	0.068	43.98
1016		17.00 X 0.60	0.084	53.41

ROUND TUBE

2



<i>SECTION</i>	<i>DRAWING</i>	<i>DIMENSION MM</i>	<i>WEIGHT KG/M</i>	<i>PERIMETER MM</i>
1017		20.00 X 0.60	0.099	62.83
1018		24.10 X 0.80	0.159	75.71
1019		19.00 X 0.90	0.139	59.69
1020		22.00 X 1.25	0.221	69.12
1021		25.00 X 2.00	0.392	78.54
1022		12.70 X 0.90	0.090	39.90
1023		16.00 X 1.50	0.185	50.27
1024		9.00 X 0.70	0.049	28.27
1026		16.00 X 2.00	0.239	50.27
1028		19.00 X 2.00	0.290	59.69
1029		20.00 X 1.20	0.192	62.83
1032		25.00 X 1.45	0.291	78.54
1033		12.70 X 0.80	0.081	39.90
1034		12.70 X 1.10	0.109	39.90
1035		16.00 X 0.80	0.104	50.27
1036		16.00 X 1.10	0.140	50.27

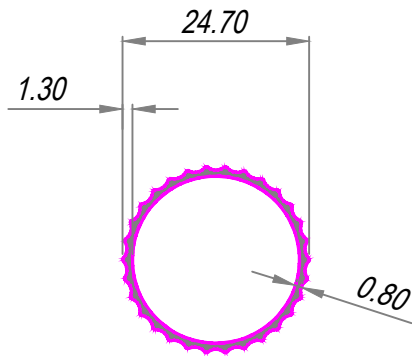
*ROUND TUBE**3*

<i>SECTION</i>	<i>DRAWING</i>	<i>DIMENSION MM</i>	<i>WEIGHT KG/M</i>	<i>PERIMETER MM</i>
1037		19.00 X 0.70	0.109	59.69
1038		19.00 X 1.15	0.175	59.69
1039		25.00 X 1.15	0.234	78.54
1040		25.00 X 0.90	0.185	78.54
1041		8.00 X 0.90	0.054	25.13
1042		9.50 X 0.90	0.066	29.85
1043		22.00 X 1.50	0.262	69.12
1044		28.00 X 1.50	0.339	87.96
1045		32.00 X 0.80	0.213	100.53
1046		7.50 X 0.60	0.035	23.56
1052		10.30 X 0.55	0.046	32.36
1053		32.00 X 1.00	0.264	100.53
1054		32.00 X 1.40	0.365	100.53
1055		32.00 X 1.50	0.390	100.53
1056		33.00 X 1.50	0.403	103.67
1060		24.10 X 0.80	0.159	75.71

ROUND TUBE

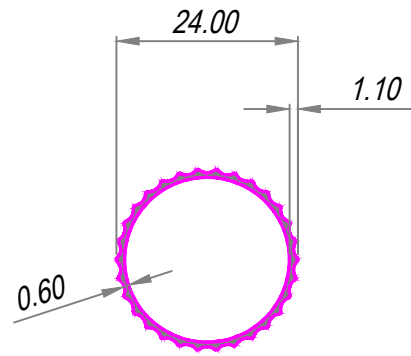
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<i>SECTION</i>	<i>DRAWING</i>	<i>DIMENSION MM</i>	<i>WEIGHT KG/M</i>	<i>PERIMETER MM</i>
1061		9.50 X 1.00	0.072	29.85
1062		38.00 X 1.50	0.466	119.38
1063		38.00 X 1.40	0.437	119.38
1065		23.30 X 0.60	0.116	73.20
1067		9.10 X 0.90	0.063	28.59
1068		18.00 X 0.60	0.089	56.55
1070		25.00 X 2.50	0.479	78.54
1071		28.00 X 2.50	0.543	87.96
1075		22.00 X 2.00	0.341	69.12
1076		9.50 X 1.20	0.085	29.85
1077		8.00 X 0.70	0.044	25.13
1078		8.00 X 1.00	0.060	25.13
1082		60.00 X 3.00	1.457	188.50
1084		24.10 X 0.65	0.130	75.71
1087		6.50 X 1.00	0.047	20.42
1088		4.80 X 0.90	0.030	15.08



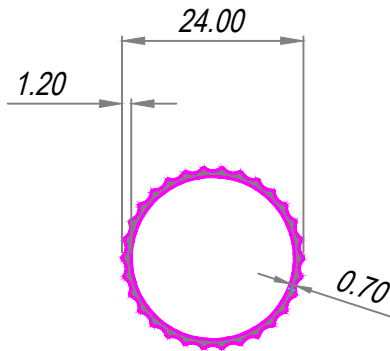
1100

W = 0.194 KG/M
P = 83.31 MM



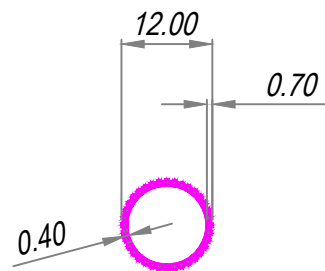
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W = 0.152 KG/M
P = 81.33 MM



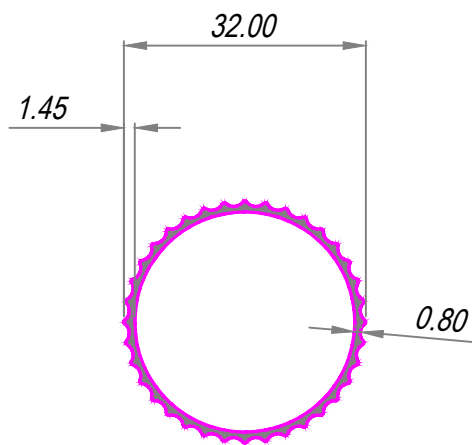
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W = 0.170 KG/M
P = 81.33 MM



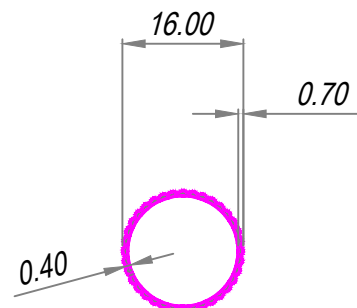
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W = 0.054 KG/M
P = 44.82 MM



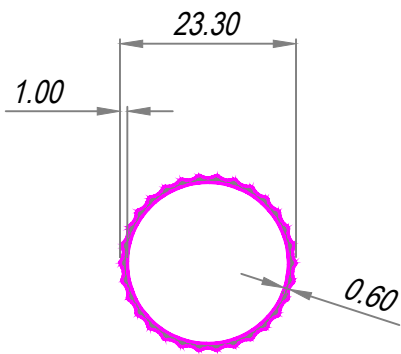
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W = 0.267 KG/M
P = 112.21 MM



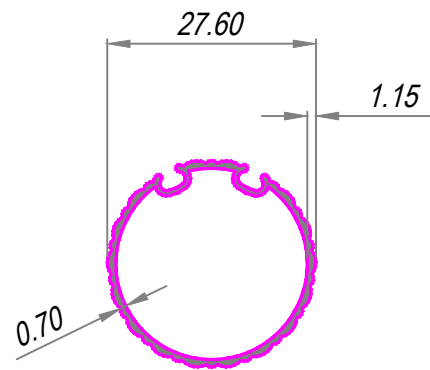
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W = 0.075 KG/M
P = 55.59 MM



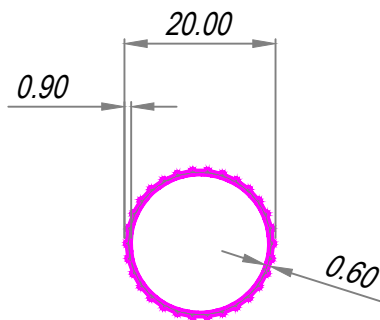
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W = 0.141 KG/M
P = 76.86 MM



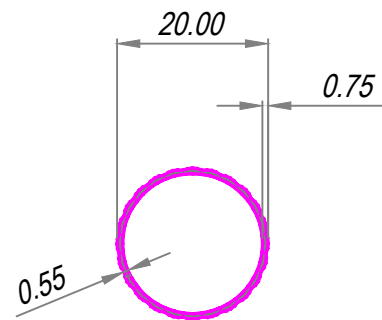
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W = 0.230 KG/M
P = 102.56 MM



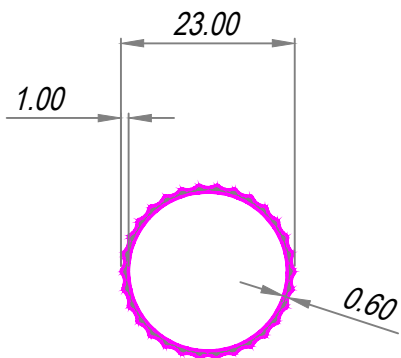
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W = 0.111 KG/M
P = 69.53 MM



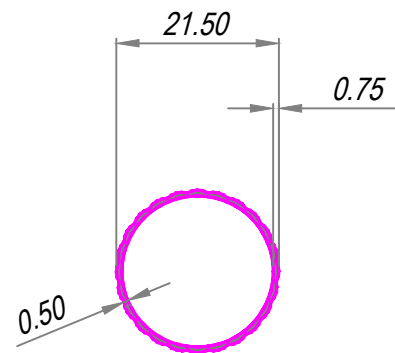
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W = 0.112 KG/M
P = 63.40 MM



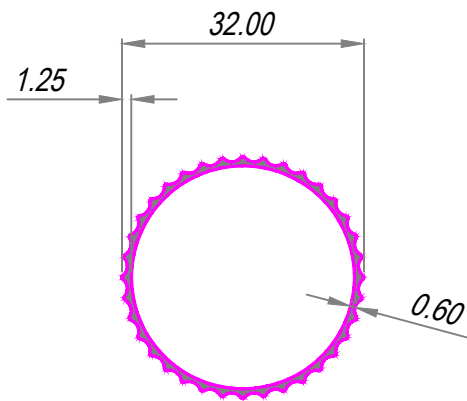
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W = 0.139 KG/M
P = 75.98 MM



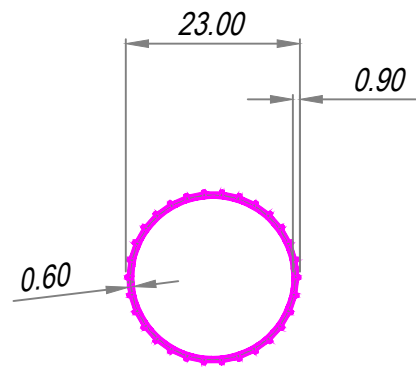
1111

W = 0.117 KG/M
P = 68.45 MM



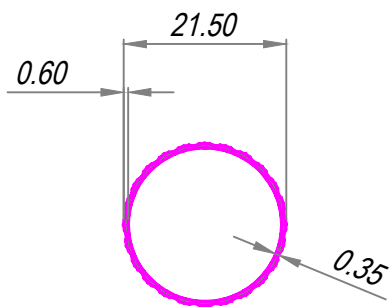
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W = 0.217 KG/M
P = 112.21 MM



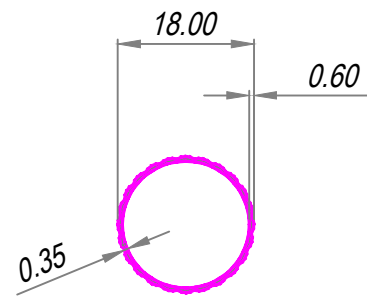
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W = 0.120 KG/M
P = 80.96 MM



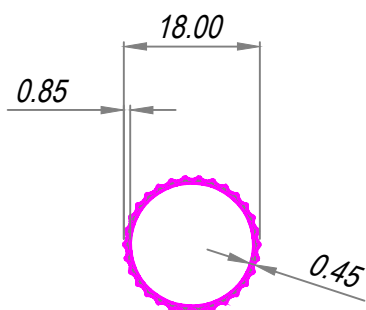
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W = 0.100 KG/M
P = 68.45 MM



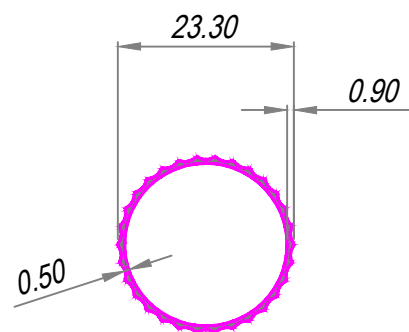
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W = 0.089 KG/M
P = 57.73 MM



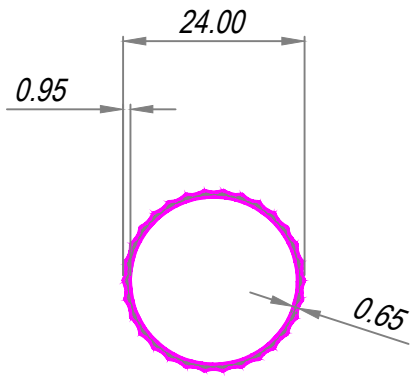
1114

W = 0.086 KG/M
P = 61.68 MM



1117

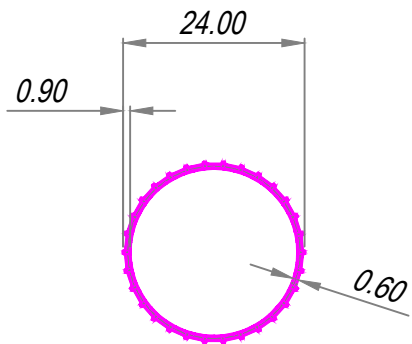
W = 0.122 KG/M
P = 76.86 MM



1118

W = 0.147 KG/M

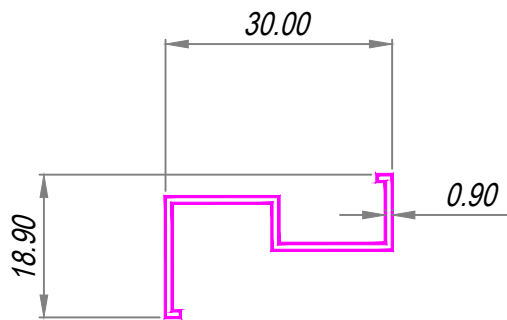
P = 77.07 MM



1119

W = 0.125 KG/M

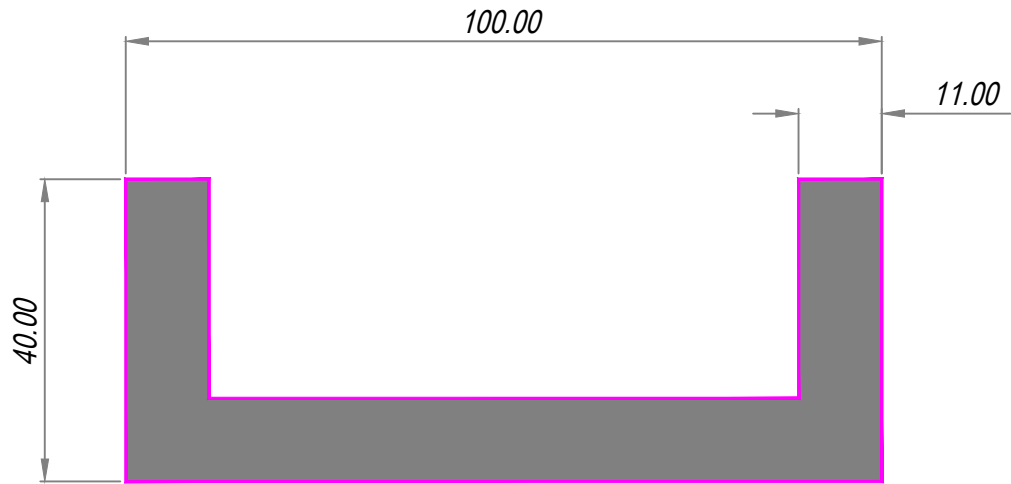
P = 84.09 MM



2403

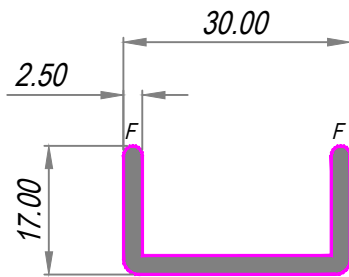
W = 0.153 KG/M

P = 127.00 MM



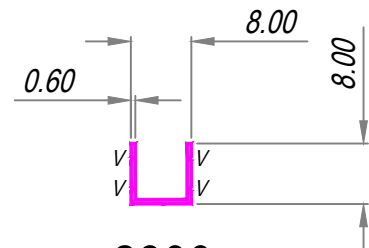
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W = 4.710 KG/M
P = 338.00 MM



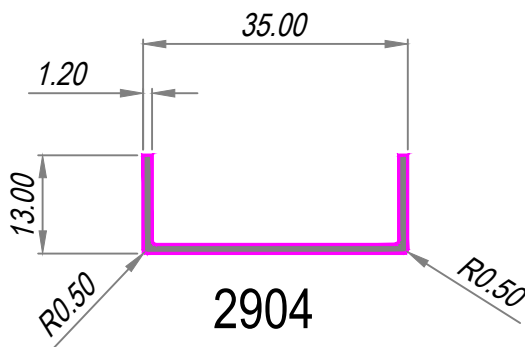
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W = 0.391 KG/M
P = 119.14 MM



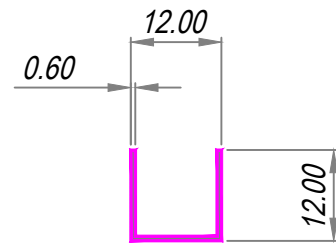
2800

W = 0.036 KG/M
P = 47.39 MM



2904

W = 0.191 KG/M
P = 118.74 MM














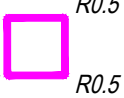

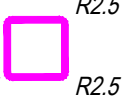


2905

W = 0.057 KG/M
P = 70.80 MM

SQUARE HOLLOW

16

SECTION	DRAWING	DIMENSION MM	WEIGHT KG/M	PERIMETER MM
3001		19.00 X 19.00 X 1.00	0.195	76.00
3002		25.00 X 25.00 X 1.20	0.310	100.00
3004		50.00 X 50.00 X 1.50	0.789	200.00
3005		50.00 X 50.00 X 2.00	1.041	200.00
3006		40.00 X 40.00 X 2.00	0.824	160.00
3007		20.00 X 20.00 X 1.50	0.301	80.00
3008		25.00 X 25.00 X 1.50	0.382	100.00
3010		14.00 X 14.00 X 0.60	0.087	56.00
3011		16.00 X 16.00 X 0.60	0.100	64.00
3012		17.00 X 17.00 X 0.60	0.107	68.00
3013		20.00 X 20.00 X 0.60	0.126	80.00
3015		23.00 X 23.00 X 0.60	0.146	92.00
3016		15.00 X 15.00 X 0.55	0.086	60.00
3017		16.60 X 16.60 X 0.60 (R0.5)	0.103	65.54
3018		10.00 X 10.00 X 0.60	0.061	40.00
3019		30.00 X 30.00 X 2.00 (R2.5)	0.593	115.71

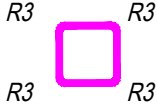


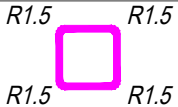
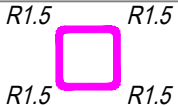
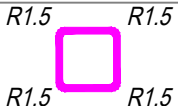






SQUARE HOLLOW

17

SECTION	DRAWING	DIMENSION MM	WEIGHT KG/M	PERIMETER MM
3020		40.00 X 40.00 X 2.00 (R2.5)	0.809	155.71
3021		20.00 X 20.00 X 2.00 (R2.5)	0.376	75.71
3022		50.00 X 50.00 X 2.00 (R2.5)	1.026	195.71
3023		16.00 X 16.00 X 0.80	0.132	64.00
3024		19.00 X 19.00 X 0.90	0.177	76.00
3025		25.00 X 25.00 X 0.90	0.235	100.00
3026		19.00 X 19.00 X 1.15	0.223	76.00
3027		25.00 X 25.00 X 1.15	0.297	100.00
3028		25.00 X 25.00 X 1.45	0.370	100.00
3029		40.00 X 40.00 X 1.45	0.606	160.00
3030		40.00 X 40.00 X 1.15	0.484	160.00
3031		50.00 X 50.00 X 1.45	0.763	200.00
3032		19.00 X 19.00 X 0.80	0.158	76.00
3033		19.00 X 19.00 X 1.10	0.213	76.00
3034		25.00 X 25.00 X 0.80	0.210	100.00
3035		38.00 X 38.00 X 0.50	0.203	152.00






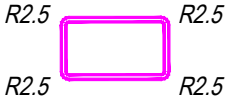
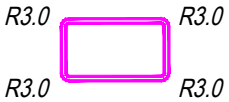
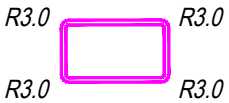








SQUARE HOLLOW

18

SECTION	DRAWING	DIMENSION MM	WEIGHT KG/M	PERIMETER MM
3036		36.50 X 36.50 X 0.50 (R3.0)	0.189	140.85
3038		38.00 X 38.00 X 0.70	0.283	152.00
3039		38.00 X 38.00 X 0.90	0.362	152.00
3041		25.00 X 25.00 X 1.50 (R1.5)	0.382	97.42
3042		19.00 X 19.00 X 1.15 (R1.5)	0.223	73.42
3044		25.00 X 25.00 X 1.20 (R1.5)	0.310	97.42
3047		50.00 X 50.00 X 1.00	0.550	200.00
3049		30.00 X 30.00 X 1.50	0.463	120.00
3052		30.00 X 30.00 X 1.20	0.375	120.00
3055		40.00 X 40.00 X 1.50	0.626	160.00
3061		30.00 X 30.00 X 2.00	0.607	120.00
3062		19.00 X 19.00 X 1.50	0.284	76.00


RECTANGULAR HOLLOW

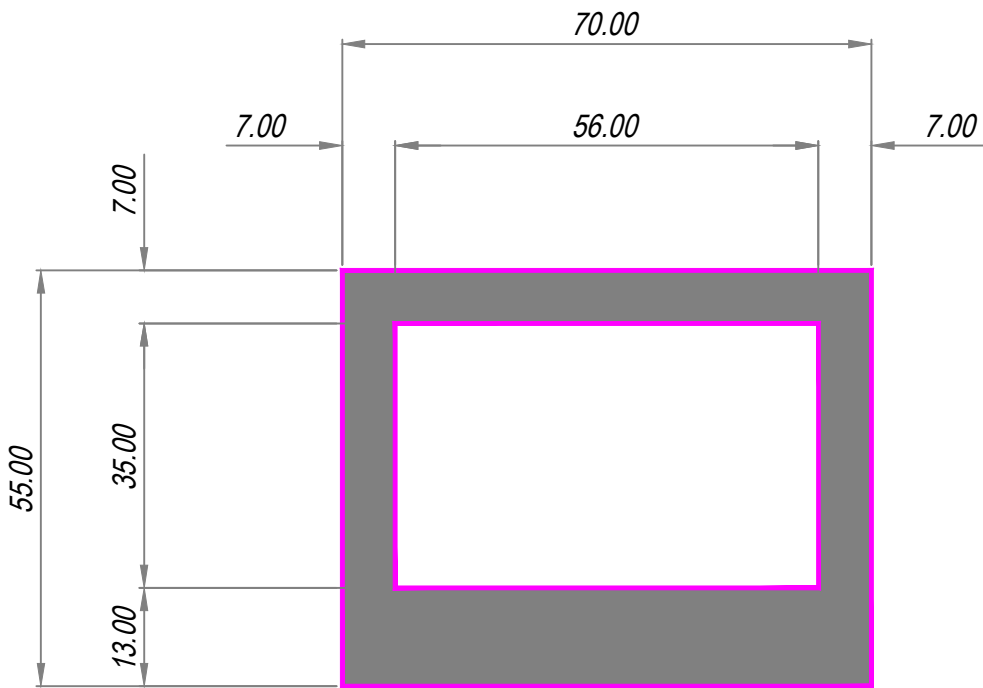
19

SECTION	DRAWING	DIMENSION MM	WEIGHT KG/M	PERIMETER MM
3048		81.00 X 41.00 X 1.00	0.651	244.00
3514		38.00 X 25.00 X 3.00	0.927	126.00
3515		28.00 X 18.00 X 0.55	0.134	92.00
3516		13.00 X 8.00 X 0.55	0.059	42.00
3517		38.00 X 19.00 X 0.50	0.152	114.00
3518		36.50 X 17.50 X 0.50 (R2.5)	0.144	103.71
3521		27.50 X 17.50 X 0.55 (R3.0)	0.131	84.85
3529		27.00 X 17.00 X 0.55 (R3.0)	0.121	82.85
3531		38.00 X 25.00 X 1.50	0.488	126.00
3532		38.00 X 19.00 X 1.50	0.439	114.00
3533		38.00 X 19.00 X 2.00	0.575	114.00
3534		38.00 X 19.00 X 2.50	0.705	114.00
3535		38.00 X 19.00 X 0.70	0.211	114.00
3536		38.00 X 19.00 X 1.00	0.298	114.00
5003		14.00 X 10.00 X 0.60	0.074	48.00
5004		18.00 X 10.00 X 0.60	0.087	56.00

RECTANGULAR HOLLOW

20

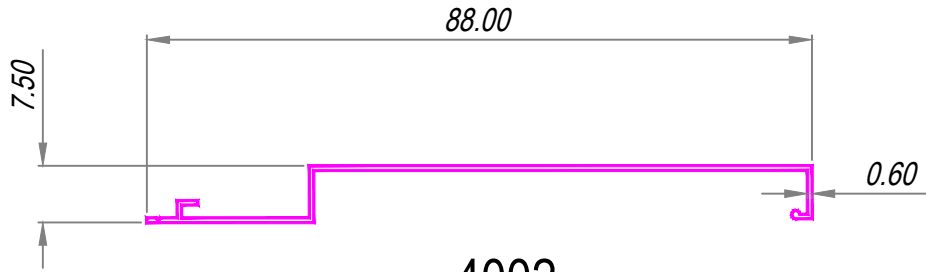
SECTION	DRAWING	DIMENSION MM	WEIGHT KG/M	PERIMETER MM
5005		17.00 X 10.00 X 0.60	0.084	54.00



3043

W = 5.122 KG/M

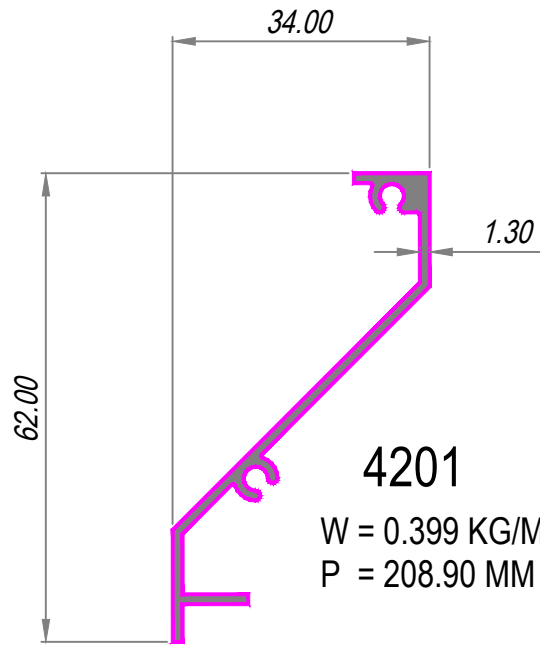
P = 250.00 MM

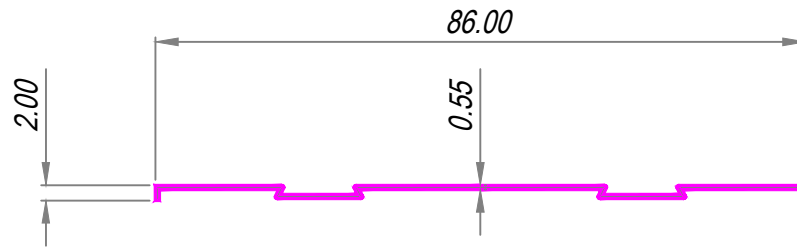


4002

W = 0.176 KG/M

P = 217.34 MM

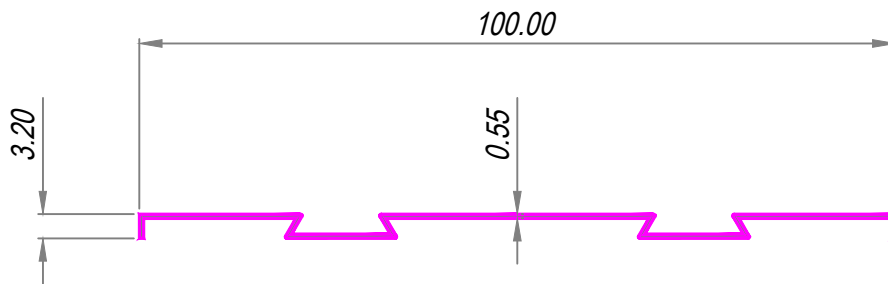




4503

W = 0.143 KG/M

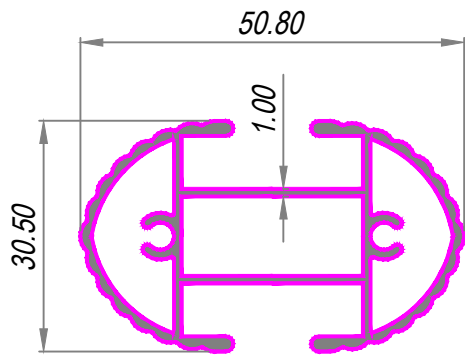
P = 191.70 MM



4504

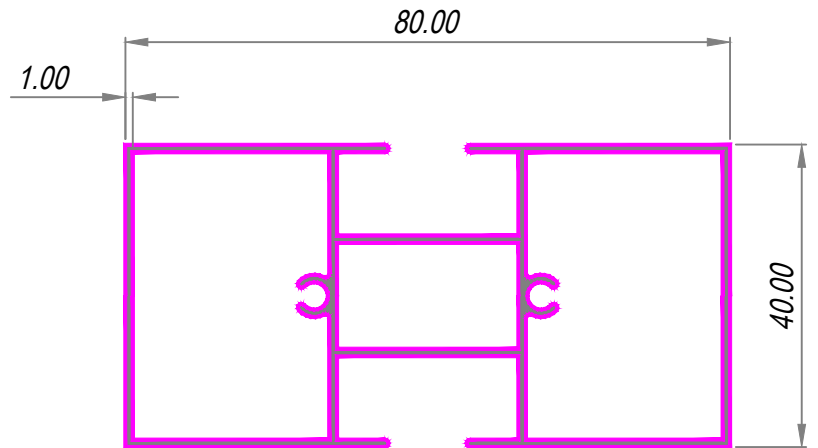
W = 0.184 KG/M

P = 246.23 MM



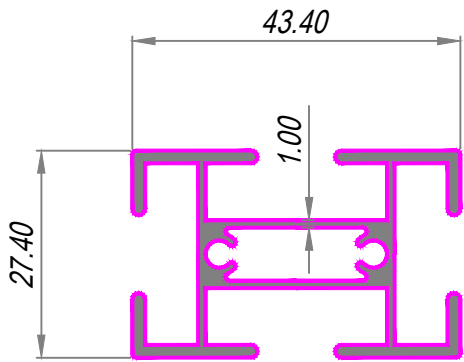
4601

W = 0.747 KG/M
P = 224.22 MM



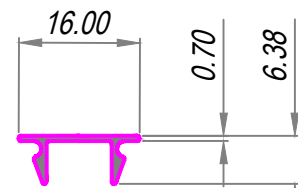
6091

W = 0.973 KG/M
P = 341.08 MM



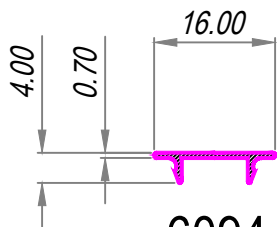
6090

W = 0.800 KG/M
P = 316.10 MM



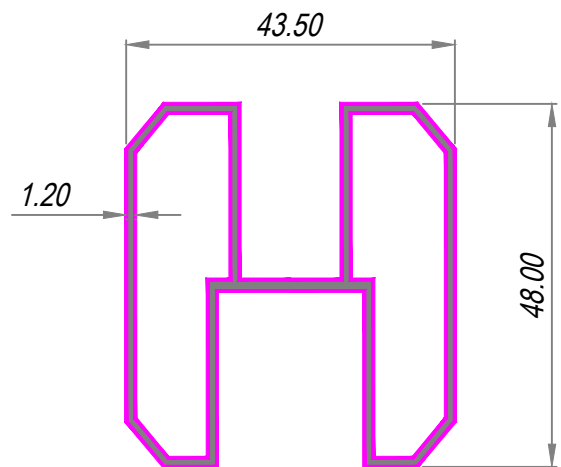
6093 (TUTUP 6091)

W = 0.063 KG/M
P = 55.03 MM



6094 (TUTUP 6090)

W = 0.044 KG/M
P = 44.51 MM



6107

W = 0.809 KG/M
P = 263.24 MM