





**NEW ZEALAND'S LEADING DISTRIBUTOR OF**

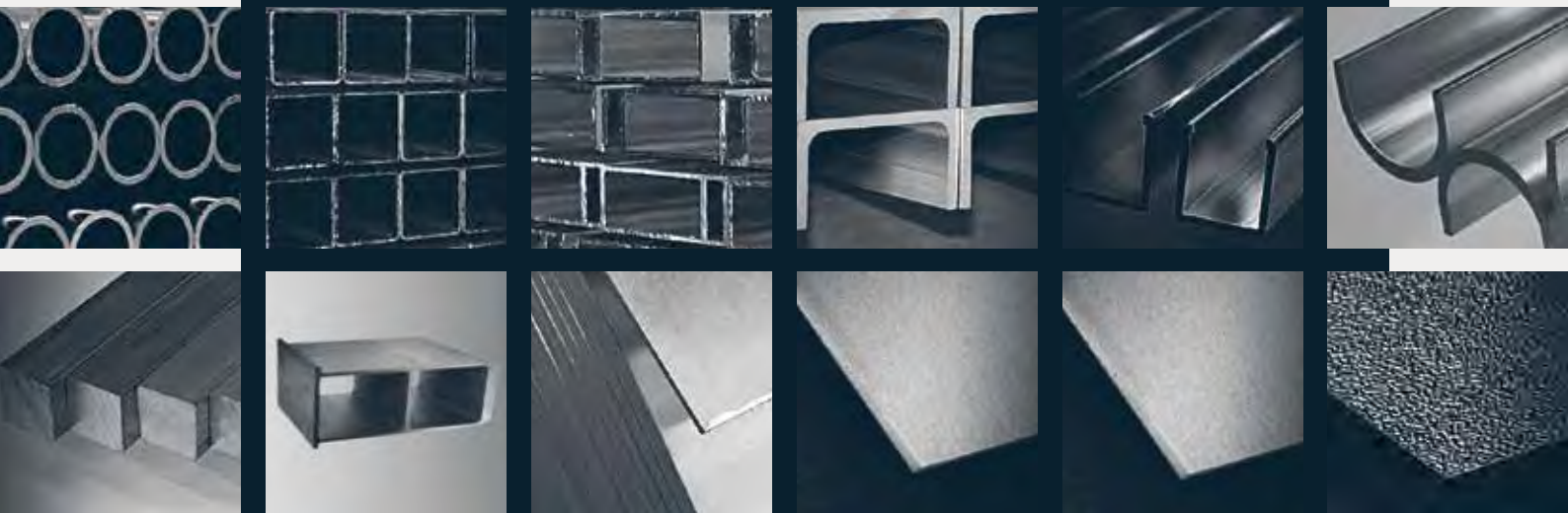




**ALUMINIUM EXTRUSION, SHEET, PLATE & COIL**



## SUPPORTING NEW ZEALAND MANUFACTURING



**INEX METALS LTD (IML)** is a supplier of custom designed Extruded aluminium shapes as well as a wide range of standard extruded profiles. In addition to these products, IML stock a comprehensive range of Sheet, Plate and Coil, for an extensive portfolio of Aluminium products for supply to the manufacturing sector in New Zealand.

Our sales team are skilled in offering our speciality services of extrusion design, material selection and technical advice for cut to size jobs. Add to this our in house modern Powder Coat and Anodising Cutting Centre/Fabrication facilities to complete a full range of services.

### INDEPENDENT EXTRUSIONS

**Inex Metals** is proud to be aligned with Independent Extrusions Ltd (INEX) as their sole New Zealand distributor of Generic Aluminium Shapes and Customer Specific Extruded Profiles.

**INEX** is acknowledged as a premium Aluminium Extrusion operation, with locations in both New Zealand and Australia. Having strategically located manufacturing facilities allows us the ability of seamless deliveries and continuity of supply.

**INEX** pride themselves in having the very best of technology available at the manufacturing facilities and supported by skilled and dedicated team, insures “Shaping Concept to Reality” is achieved.

### SUSTAINABILITY

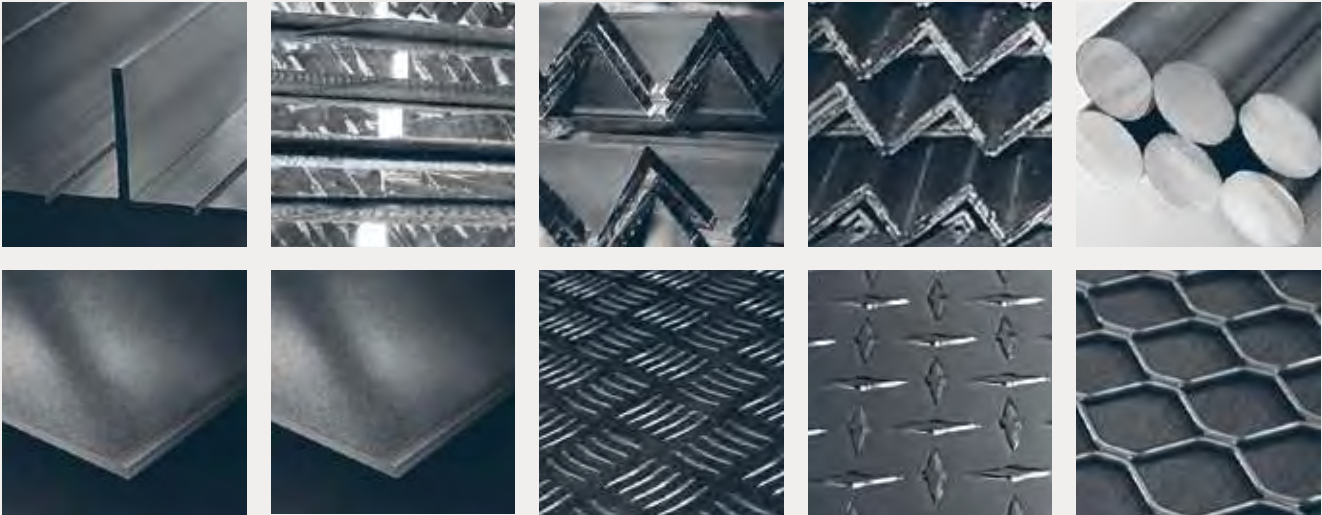
At **INEX** we believe sustainability to be synonymous with good business practices, and promote these actively within our business model to capture careful consumption and waste management practices. Our products are subject to careful energy consumption and a virtually infinitely recyclable product that in itself is employed in a myriad of applications.

### WEB CONTACT

For the latest products and up to date information, please refer to our web site.

**[www.inexmetals.co.nz](http://www.inexmetals.co.nz)**

Disclaimer: Every effort has been made to ensure accuracy and the most up to date information in the compilation of this catalogue. However, Inex Metals Ltd does not accept responsibility for any inaccuracy or errors contained therein. Dimensions, information and values presented are intended only as a guide to performance and application suitability. Nothing herein contained constitutes a warranty that any product is specifically suitable for a particular purpose. Inex Metals Ltd reserves the right to change product design and specifications without notice.



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## CHARACTERISTICS : ALUMINIUM &amp; ITS ALLOYS

*A unique combination of properties puts aluminium and its alloys among our most versatile engineering and construction materials. All alloys are light in weight, yet some have strengths greater than that of structural steel. The majority of alloys are highly durable under the majority of service conditions and no coloured salts are formed to stain adjacent surfaces or discolour products with which they come in contact, such as fabrics in the textile industry and solutions in chemical equipment. They have no toxic reaction. Aluminium and most of its alloys have good electrical and thermal conductivities and high reflectivity to both heat and light.*

*Aluminium and most of its alloys can easily be worked into any form and readily accept a wide variety of surface finishes.*

*Light weight is perhaps aluminium's best known characteristic having a density of approximately  $2.7 \times 10^3$  kilograms per cubic metre at  $20^\circ\text{C}$  as compared with  $7.9 \times 10^3$  for iron and  $8.9 \times 10^3$  for copper.*

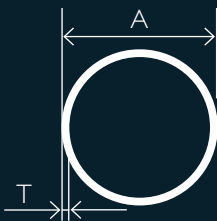
**HANDLING, STORING & MAINTENANCE**

Aluminium is one of the easiest materials to keep in good condition. It has a high natural resistance to corrosive conditions normally encountered during shipment and storage and a little care will maintain its original appearance for a long time. The principal things to guard against are conditions that might cause surface abrasions or water stains.

Suppliers make every effort to pack aluminium so that 'traffic marks' or 'rub marks' do not occur during shipment and that it also remains dry. All incoming shipments should be inspected promptly, since suppliers generally have a time limit in which damage claims will be honoured.

Traffic marks may appear as scratches, surface abrasions, or a condition resembling cinders embedded in the metal. They result from mechanical abrasion and subsequent oxidation of the abraded areas. Their principal disadvantage lies in their unsightliness and their effect on finishing operations.

Water stain is a superficial condition and the mechanical properties of the metal having such stain are not affected. If a shipment of aluminium arrives in a wet condition, it should be thoroughly dried before storing. This may be done by evaporation in air or by means of dry air currents. When the moisture is removed in this manner within a short period after the metal becomes wet, no stain will result. If stain has occurred and the moist condition causing it is removed, the stain will not develop further. Once safely dry, the metal should not be stored near such obvious water sources as steam and water pipes and it should be kept at a reasonable distance from open doors and windows.



## ALLOY 6060 : 5 METRE LENGTHS

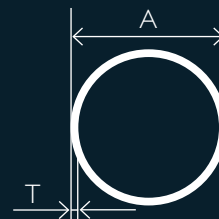
SECTION	EX STOCK	SIZE mm		KILO / METRE	PERIMETER mm
		A	T		
90001	✓	9.53	1.63	0.110	29.9
40678	*	12.00	1.20	0.110	37.7
30025	*	12.70	1.20	0.118	39.9
30906	✓	12.70	1.42	0.136	39.9
60191	✓	12.70	1.80	0.167	39.9
31120	✓	15.88	2.64	0.298	49.9
30068	✓	15.90	1.40	0.173	50.0
30536	*	16.00	1.60	0.196	50.3
30041	✓	19.00	1.20	0.182	59.7
60056	✓	19.00	2.00	0.289	59.7
31059	*	19.05	1.42	0.213	59.8
30666	*	20.00	1.20	0.192	62.8
30907	✓	22.23	1.42	0.251	69.8
60073	*	25.00	1.20	0.243	78.5
30324	✓	25.00	2.00	0.392	78.5
30053	✓	25.00	3.00	0.562	78.5
31084	*	25.00	4.50	0.785	78.5
30014	✓	25.40	1.42	0.290	79.8
30015	*	25.40	1.60	0.324	79.8
30743	*	25.40	2.95	0.564	79.8
30479	*	28.58	1.42	0.328	89.8
30261	✓	30.00	1.40	0.341	94.3
10665	*	30.00	3.00	0.690	94.2
	*	31.00	5.00	1.107	97.0
30028	✓	31.80	1.40	0.362	99.9
30237	✓	32.00	3.00	0.741	100.5
60086	*	33.00	4.20	1.030	103.7
90011	*	34.93	1.42	0.405	109.7
30070	*	38.00	1.40	0.436	119.4
30226	✓	38.00	3.00	0.894	119.4
10167	✓	38.10	1.42	0.443	119.7
60189	✓	40.00	3.00	0.945	125.7
90012	*	40.00	4.00	1.226	125.7
40199	*	41.70	2.80	0.927	131.0
60049	✓	44.45	3.00	1.059	139.6
60206	*	48.00	2.50	0.968	150.8

A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire

## ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	SIZE mm		KILO / METRE	PERIMETER mm
		A	T		
30657	*	48.00	4.00	1.499	150.8
31106	✓	48.40	4.45	1.665	152.1
90008	✓ #	48.41	4.47	1.666	152.1
30908	✓	50.00	1.60	0.659	157.1
30030	✓	50.00	2.00	0.817	157.1
30238	✓	50.00	3.00	1.201	157.1
60042	✓	50.00	6.50	2.407	157.1
90089	*	60.00	2.00	0.986	188.5
90489	*	60.00	5.00		
30909	✓	63.50	3.00	1.545	199.5
60030	*	63.50	5.00	2.490	199.5
30628	*	63.50	10.30	4.665	199.5
90013	*	63.53	1.63	0.859	200.0
60194	✓	65.00	3.00	1.584	204.2
30658	✓	65.00	5.00	2.554	204.2
30745	✓	65.00	6.00	3.014	204.2
60015	✓	75.00	3.00	1.839	235.6
30746	*	76.00	6.35	3.776	239.4
90065	✓	76.20	2.03	1.282	239.4
60000	*	76.20	3.25	2.019	239.4
30764	*	78.50	2.00	1.302	246.6
30763	*	79.00	2.00	1.311	248.2
30796	*	79.60	2.00	1.321	250.1
30477	✓	80.00	2.00	1.328	251.3
60023	✓	88.90	3.30	2.405	279.3
90073	*	90.00	10.00	6.800	282.6
60004	*	96.50	3.00	2.388	303.2
60016	✓	100.00	3.00	2.477	314.2
30802	✓	100.00	6.00	4.802	314.2
30478	*	101.00	2.50	2.096	317.3
60019	*	105.00	3.00	2.605	329.9
90083	*	120.00	10.00	9.630	376.8
60065	✓	125.00	3.00	3.116	392.7
30570	*	127.00	1.60	1.702	397.4
90171	✓	150.00	3.50	4.349	471.0

A = Outside Diameter T = Thickness

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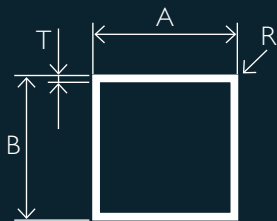
If the product you require is not listed please enquire

# Other stock lengths available in this size. If the product you require is not listed please enquire

AUCKLAND PH 09 270 8342 • HAMILTON PH 07 849 4150 • CHRISTCHURCH PH 03 341 5402

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## ALLOY 6060 : 5 METRE LENGTHS

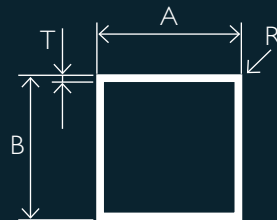
SECTION	EX STOCK		SIZE mm		RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	R (E / I)		
60055	*	12.00	12.00	1.20	0.20	0.140	47.7
60029	*	12.70	12.70	1.40	0.20	0.172	50.5
30897	✓	19.00	19.00	1.50	0.20	0.285	75.7
60171	✓	20.00	20.00	3.00	0.30	0.553	79.5
60032	✓	25.00	25.00	1.40	1.40	0.354	97.6
30019	*	25.00	25.00	1.60	0.25	0.406	99.6
30054	✓	25.00	25.00	1.80	1.60	0.447	97.3
30055	✓	25.00	25.00	3.00	0.25	0.715	99.6
60102	*	25.00	25.00	4.50	2.00	0.991	96.6
60183	✓	25.00	25.00	5.00	1.50	1.079	97.4
60095	*	30.00	30.00	1.60	0.30	0.492	119.5
60142	*	30.00	30.00	2.00	0.20	0.607	119.7
60128	*	30.00	30.00	3.00	2.50	0.863	115.7
30898	✓	32.00	32.00	3.00	0.20	0.943	127.7
60143	*	32.20	32.20	2.00	0.20	0.655	128.5
30681	✓	33.90	33.90	1.45	2.50	0.498	131.3
60201	✓	35.00	35.00	2.00	0.30	0.715	139.5
60033	*	38.00	38.00	2.00	1.00	0.778	150.3
60069	*	40.00	40.00	1.60	3.00 / 1.40 (I)	0.649	154.8
60076	*	40.00	40.00	1.60	0.50	0.666	159.1
30613	✓	40.00	40.00	2.00	1.50	0.824	157.4
60116	*	40.00	40.00	2.00	3.00 / 0.50 (I)	0.803	154.8
60119	*	40.00	40.00	3.00	0.20	1.203	159.7
30229	✓	40.00	40.00	3.00	0.50	1.203	159.1
30227	✓	40.00	40.00	3.00	3.00 / 1.00 (I)	1.185	154.9
30750	✓	40.00	40.00	5.00	2.50 / 0.80 (I)	1.884	155.7
30615	*	45.00	45.00	1.80	0.30	0.843	179.5
60117	*	50.00	50.00	1.60	0.40	0.839	199.3
30614	✓	50.00	50.00	1.60	1.50	0.840	197.4
30682	✓	50.00	50.00	2.00	5.00 / 3.00 (I)	1.003	191.4
30228	✓#	50.00	50.00	3.00	0.25	1.528	200.0
60035	✓#	50.00	50.00	3.00	2.50	1.514	195.7
60084	✓	50.00	50.00	5.00	4.00	2.401	193.1
60187	✓	50.00	50.00	6.00	0.30	2.862	199.5
10165	*	50.80	50.80	1.63	3.18	0.851	197.7
60094	*	50.80	50.80	1.83	6.30 / 4.47 (I)	0.925	192.4
60118	*	50.80	50.80	3.00	6.35 / 3.35 (I)	1.488	192.3

A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire

## ALLOY 6060 : 5 METRE LENGTHS



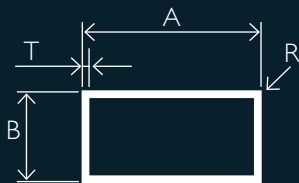
SECTION	EX STOCK	A	B	T	RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	R		
90050	*	57.00	57.00	3.00	6.00	1.687	218.0
30694	*	60.00	60.00	1.40	0.20	0.889	239.7
90351	*	65.00	65.00	2.00	3.00	1.347	255.0
60070	✓#	65.00	65.00	2.50	2.50	1.679	255.7
30899	✓#	75.00	75.00	3.00	0.25	2.341	300.0
30751	✓	75.00	75.00	4.50	0.80	3.438	298.6
60174	✓	75.00	75.00	6.00	0.30	4.487	299.5
40930	*	80.00	80.00	2.00	0.30	1.691	319.5
60111	*	90.00	90.00	6.00	0.50	5.463	359.1
30804	✓	100.00	100.00	3.00	0.20	3.154	399.7
60281	✓	100.00	100.00	3.00	5.00 / 4.00 (I)	3.133	391.4
60064	✓	100.00	100.00	5.00	0.50	5.148	399.1
60275	✓	140.00	140.00	3.00	1.00	4.453	558.3

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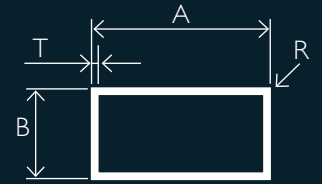
SECTION	EX STOCK	A	B	T	R (E / I)	KILO / METRE	PERIMETER mm
31158	*	30.00	8.00	1.50	0.25	0.284	75.6
30071	*	30.00	12.00	2.00	0.25	0.412	83.6
60123	*	33.00	17.00	3.00	0.30	0.715	99.5
60124	*	33.00	25.00	3.00	0.30	0.845	115.5
60071	*	38.00	25.00	1.50	3.00 / 1.50 (I)	0.472	120.8
60010	✓	38.00	25.00	2.00	3.00 / 1.50 (I)	0.624	120.8
60186	*	40.00	14.00	1.25	2.00	0.341	104.6
40922	*	40.00	15.00	1.50	0.20	0.423	109.7
30901	✓	40.00	20.00	3.00	0.25	0.878	119.6
60034	✓	40.00	20.00	3.00	3.00	0.857	114.8
60134	*	40.00	25.00	2.00	1.50	0.656	127.4
60020	*	50.00	25.00	1.60	0.30	0.622	149.5
10164	✓#	50.00	25.00	2.00		0.770	150.0
30056	✓	50.00	25.00	3.00	0.25	1.122	149.6
60038	✓#	50.00	25.00	3.00	3.00	1.101	144.8
60146	✓	50.00	38.00	2.00	3.00	0.892	170.8
60159	*	50.00	40.00	2.00	0.20	0.932	179.7
30902	✓	50.00	40.00	3.00	0.25	1.366	179.6
30693	✓	60.00	30.00	2.00	0.20	0.932	179.7
60090	✓#	60.00	40.00	3.00	0.20	1.528	199.7
30903	✓	65.00	50.00	3.00	0.25	1.772	229.6
30904	✓	70.00	40.00	3.00	0.25	1.691	219.6
30752	✓	75.00	25.00	2.20	0.50	1.139	199.1
30947	✓#	75.00	40.00	2.00	0.25	1.203	229.6
60039	✓	75.00	40.00	5.00	6.00	2.764	219.7
60047	✓	75.00	40.00	6.00	0.30	3.349	229.5
30881	✓#	75.00	50.00	3.00	0.30	1.935	249.5
90350	*	75.00	50.00	5.00	6.00	3.035	240.0
60024	*	80.00	40.00	2.50	1.00	1.556	238.3
60135	*	80.00	40.00	3.00	0.20	1.853	239.7
60036	✓	80.00	50.00	3.00	5.00	1.967	251.4
90343	*	80.00	70.00	6.00	6.00	4.413	289.7
30095	✓	100.00	25.00	2.00	1.00	1.309	248.3
30905	✓	100.00	25.00	2.50	0.25	1.626	249.6
31136	✓	100.00	45.00	3.00	0.30	2.260	289.5
10166	✓	100.00	50.00	2.00		1.583	300.0

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## ALLOY 6060 : 5 METRE LENGTHS



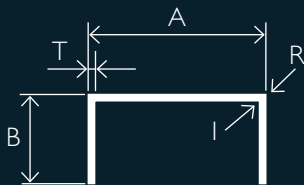
SECTION	EX STOCK	A	B	T	RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	I / E		
30231	✓	100.00	50.00	3.00		2.341	300.0
60037	✓#	100.00	50.00	3.00	4.00 / 1.00 (I)	2.307	293.1
60262	✓	100.00	50.00	4.00	0.50	3.078	299.1
90344	*	100.00	50.00	5.00	6.00	3.713	289.0
30230	✓	100.00	50.00	6.00	1.50	4.483	297.4
60178	*	125.00	25.00	3.50	0.30	2.712	299.5
90078	*	125.00	40.00	3.00		2.585	330.0
60163	*	125.00	50.00	1.50	0.50	1.398	349.1
31148	*	125.00	50.00	1.90	0.25	2.034	349.6
90181	✓#	125.00	65.00	5.00	2.00	4.820	380.0
90345	*	125.00	90.00	6.00	6.00	6.527	420.0
60027	*	140.00	50.00	6.00	0.50	5.788	379.1
30662	✓#	150.00	50.00	3.00	0.25	3.154	399.6
90133	*	150.00	50.00	5.00	5.00	4.975	382.0
60164	*	150.00	50.00	6.00	3.00	6.093	394.8
60096	✓#	150.00	100.00	3.00	10.0 / 7.00 (I)	3.849	482.8
60097	✓#	150.00	100.00	5.00	10.00	6.329	482.8
60126	*	180.00	90.00	5.00	1.00	7.044	538.3
31139	✓#	200.00	50.00	3.00	1.00	3.965	498.3
90041	✓#	250.00	50.00	3.00		4.780	599.0
90137	✓#	300.00	50.00	3.50		6.507	700.0

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## ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	SIZE mm	RADII mm	KILO / METRE	PERIMETER mm
		A B T	R (E / I)		
30910	*	9.50 9.50 1.60	0.25	0.109	53.2
60232	✓	10.30 15.00 1.50	0.30	0.151	76.8
30911	*	12.70 12.70 2.40	0.25	0.216	70.8
60103	*	17.20 12.10 3.10	0.25	0.295	76.0
60088	*	17.50 25.00 2.00	0.20	0.361	129.8
90127	*	20.00 20.00 3.00		0.437	114.0
30912	✓	25.00 25.00 1.60	0.25	0.311	146.2
30376	✓	25.00 25.00 3.00		0.561	144.0
30242	✓	25.00 50.00 2.00	0.30	0.656	245.2
30913	✓	25.00 50.00 3.00	0.25	0.967	243.4
30914	✓	30.00 25.00 3.00	0.25	0.601	153.4
30243	✓	30.00 50.00 2.00	0.30	0.683	255.2
60156	*	32.00 12.00 3.00	0.20	0.406	105.5
60017	*	32.00 25.00 3.00	0.30	0.618	157.2
60141	*	32.00 32.00 3.00	0.20	0.731	185.5
60148	*	35.00 35.00 1.60	0.20	0.441	206.3
31055	✓	36.00 36.00 2.50	0.20	0.698	210.5
90146	✓	40.00 12.00 3.00		0.472	122.0
90147		40.00 20.00 3.00		0.599	154.0
30896	✓	40.00 25.00 3.00	0.25	0.683	173.4
60018		45.00 25.00 3.00	0.30	0.723	183.2
30946	*	46.50 40.00 3.00	0.25	0.979	246.4
30797	✓#	50.00 16.00 3.00	0.30	0.618	157.2
30900	✓	50.00 25.00 3.00	0.25	0.764	193.4
31138	*	50.00 30.00 1.60	0.30	0.463	216.0
60217	✓	50.00 50.00 3.00	0.30	1.171	293.5
60081	✓	54.20 25.00 1.60	1.0 / 0.30	0.434	203.7
30932	*	60.00 12.00 3.00	0.25	0.634	161.4
60177	✓	75.00 25.00 3.00	0.30	0.967	243.2
31137	*	75.00 30.00 1.50	0.30	0.536	266.2
30602	✓	75.00 40.00 4.50	0.50 / 7.5	1.845	293.3
90029	✓	75.00 40.00 6.00		2.325	298.0
31028	*	75.00 75.00 3.00	0.30	1.779	442.6
31033	*	76.00 33.00 8.00	0.50	2.406	270.7
31061	*	90.00 12.00 3.00	0.30	0.878	221.2
60166	*	90.00 25.00 5.00	2.50	1.754	267.0
60196	*	94.00 75.00 6.00	0.30	3.772	475.2

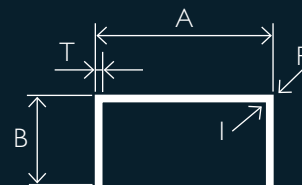
A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire



## ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	SIZE mm		RADII mm		KILO / METRE	PERIMETER mm
		A	B	T	I / R		
30923	✓	100.00	25.00	3.00	0.25	1.170	293.4
60203	✓	100.00	50.00	3.00	0.30	1.577	393.2
60172	✓	100.00	50.00	4.50	0.30	2.329	390.2
90019	*	100.00	50.00	6.00	0.8 (I)	3.046	387.0
90109	*	117.00	25.00	2.5/1.50	1.25	0.976	326.0
60136	*	150.00	75.00	2.50	0.30	1.998	594.2
90047	✓	150.00	75.00	3.50	0.40	2.768	592.0
90196	*	150.00	75.00	5.00		3.915	590.0
60192	✓	150.00	75.00	6.00	0.50	4.862	586.7
90064	*	203.20	63.50	4.75		4.113	650.9

## U CHANNEL ALLOY 6060 : 5 METRE LENGTHS

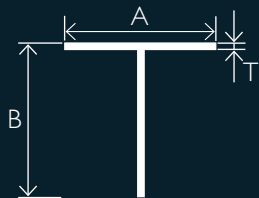
SECTION	EX STOCK	SIZE mm		RADII mm		KILO / METRE	PERIMETER mm
		A	B	T	I / R		
60190		40.00	35.00	6.000	0.30	1.356	178.3
90046		50.00	35.00	3.000		0.986	190.0
60052		60.00	45.00	5.000		1.712	240.3
90122		75.00	55.00	6.000		2.490	296.0
32847		80.00	40.00	3.000	0.50	1.021	256.5

A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire

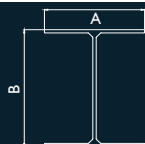




## ALLOY 6060 : 5 METRE LENGTHS

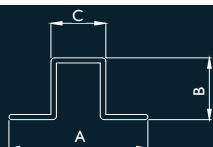


SECTION	EX STOCK		SIZE mm		KILO / METRE	PERIMETER mm
		A	B	T		
90043	*	25.0	25.0	1.6	0.209	100
60031	✓	25.0	25.0	3.0	0.382	100
31000	✓	40.0	40.0	3.0	0.624	160
31102	✓	40.0	50.0	6.0	1.366	179
90096	*	44.4	25.4	2.5	0.456	136
60207	✓	50.0	22.0	3.0	0.561	143
90104	*	50.0	50.0	3.0	0.789	200
60188	✓	50.0	50.0	6.0	1.528	200
60211	✓	50.0	75.0	6.0	1.977	244
60170	✓	50.0	100.0	6.0	2.341	320
60080	*	50.0	150.0	8.0	4.162	400
60072	*	65.0	65.0	6.0	2.010	260
60181	*	75.0	125.0	10.0	5.149	399
90016	*	100.0	65.0	5.0	2.168	330
60003	*	100.0	80.0	5.0/7.0	2.770	359
60210	*	100.0	90.0	10.0	4.878	379



## I BEAM. ALLOY 6060

SECTION	EX STOCK		SIZE mm		RADIUS	KILO / METRE	PERIMETER mm
		A	B	T			
31121	*	50.0	50.0	4.0	FULL ON LEGS	1.521	285.1
60197	*	90.0	108.0	3.0	-	2.379	558.6



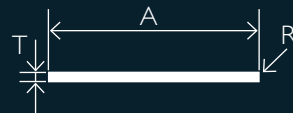
## TOP HAT. ALLOY 6060

SECTION	EX STOCK	SIZE mm				RADIUS	KILO / METRE	PERIMETER mm
	*	A	B	C	T			
60014	*	38.0	18.0	15.0	1.5	FULL ON LEGS	0.285	142.0

A = Width B = Height T = Thickness R = External Radii

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# Other stock lengths available in this size. If the product you require is not listed please enquire



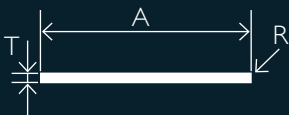
## ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	SIZE mm		RADII mm	KILO / METRE	PERIMETER mm
		A	T	R		
	*	9.50	3.18		0.082	25.4
60007		12.00	3.00	0.25	0.097	29.6
	*	12.00	4.50		0.146	30.0
60050	*	12.00	6.00	0.20	0.195	35.7
90055	*	12.70	9.53		0.328	44.5
30569	✓	15.00	3.00	0.30	0.122	35.5
30036	✓	19.00	3.00	0.80	0.153	42.6
30290	✓	19.00	4.50		0.232	47.0
30291	✓	19.00	6.00		0.309	50.0
30276	*	20.00	3.00	full radius	0.157	43.4
60082	*	20.00	4.00	0.30	0.216	47.5
60112	*	22.50	6.00	full radius	0.345	51.8
30591	✓	25.00	1.60	0.20	0.108	52.9
31085	*	25.00	2.50	0.50	0.169	54.1
30311	✓	25.00	3.00		0.203	56.0
30292	✓	25.00	4.50		0.305	59.0
60155	*	25.00	5.00	0.20	0.339	59.7
30293	✓	25.00	6.00		0.406	62.0
30294	✓	25.00	9.00		0.610	68.0
60145	*	25.00	10.00	full radius	0.619	61.4
30577	✓	25.00	12.00	0.30	0.813	73.5
30067	*	25.40	4.00	full radius	0.266	55.4
30029	*	25.40	12.70	0.25	0.874	75.8
30981	*	27.00	3.00	0.20	0.220	59.7
31039	*	30.00	3.00	full radius	0.239	63.4
60214	*	30.00	4.00	2.00	0.316	64.6
60202	✓	30.00	6.00	0.30	0.488	71.5
60205	*	30.00	12.00	0.30	0.975	83.5
30295	✓	32.00	3.00		0.260	70.0
30578	✓	32.00	4.50	0.30	0.390	72.5
90157	✓	32.00	10.00		0.867	84.0
30579	*	38.00	3.00	0.30	0.309	81.5
30580	✓	38.00	4.50	0.30	0.463	84.5
30296	*	38.00	6.00		0.618	88.0
30297	✓	38.00	9.00		0.927	94.0
90057	*	38.10	25.40		2.610	127.0
30001	✓	40.00	3.00	full radius	0.320	83.4

A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire



## ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	SIZE mm		RADII mm	KILO / METRE	PERIMETER mm
		A	T	R		
60040	✓	40.00	6.00	0.30	0.650	91.5
60182	✓	40.00	10.00	0.30	1.084	99.5
90168	✓	40.00	12.00		1.301	104.0
60063	*	50.00	1.60	0.20	0.216	102.7
30581	✓	50.00	3.00	0.30	0.406	105.5
30298	✓	50.00	4.50		0.610	109.0
30075	✓	50.00	6.00	0.25	0.813	111.6
90235	✓	50.00	8.00		1.080	116.0
30076	✓	50.00	10.00	0.25	1.355	119.6
30299	✓	50.00	12.00		1.626	124.0
90038	✓	50.00	20.00		2.710	140.0
30300	✓	50.00	25.00		3.387	150.0
30099	*	55.00	2.05		0.306	114.1
60028	✓	60.00	3.00	0.50	0.487	125.1
60043	*	60.00	5.00	full radius	0.798	125.7
90049	✓	60.00	6.00		0.972	132.0
30640	✓	60.00	10.00	0.30	1.626	139.5
30516	✓	65.00	6.00	0.20	1.057	141.7
10727	*	68.00	3.00		0.553	142.0
30582	*	70.00	20.00	0.30	3.794	179.5
60058	*	74.50	2.50	0.30	0.505	153.5
60195	*	75.00	2.00	0.30	0.406	154.0
31114	*	75.00	1.60	0.30	0.325	152.7
30301	✓	75.00	3.00		0.610	156.0
30078	✓	75.00	6.00	0.25	1.219	161.6
30934	*	75.00	10.00	0.25	2.032	169.6
30456	✓	75.00	12.00	0.30	2.439	173.5
30583	✓	75.00	20.00	0.30	4.065	189.5
60046	*	80.00	1.40	0.30	0.303	162.3
30772	*	80.00	1.50	0.25	0.325	162.6
60044	*	80.00	6.00	full radius	1.280	166.8
60161	*	90.00	2.50	0.30	0.609	184.5
31116	*	90.00	12.00	0.30	2.927	203.5
30838	*	100.00	1.60	0.50	0.433	203.3
60160	*	100.00	2.00	0.30	0.542	203.5
30302	✓	100.00	3.00		0.813	206.0
30518	✓	100.00	5.00	0.50	1.354	209.1
30077	✓	100.00	6.00	0.25	1.626	211.6

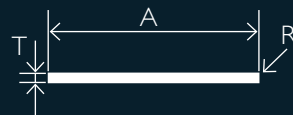
A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

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## ALLOY 6060 : 5 METRE LENGTHS

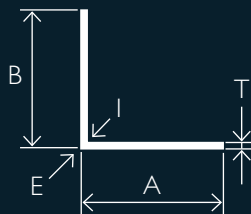


SECTION	EX STOCK	SIZE mm		RADII mm	KILO / METRE	PERIMETER mm
		A	T	R		
30490	✓	100.00	10.00	0.50	2.710	219.2
30303	✓	100.00	12.00		3.252	224.0
	*	100.00	25.00		6.775	250.0
30304	✓	101.60	9.00		2.478	221.2
60059	*	102.50	2.50	0.30	0.694	209.5
60162	*	112.00	3.00	0.30	0.910	229.5
60060	*	116.50	2.50	0.30	0.789	237.5
60002	✓	125.00	6.00	0.30	2.032	261.5
60125	✓	125.00	10.00	0.30	3.387	269.5
60061	*	126.00	2.50	0.30	0.853	256.5
60074	*	143.50	3.00	0.30	1.166	292.5
60083	*	150.00	1.60	full radius	0.649	301.8
60011	*	150.00	2.00	0.50	0.812	303.1
60025	✓	150.00	5.00	0.30	2.032	309.5
30709	✓	150.00	10.00	0.20	4.065	319.7
30805	✓	150.00	12.00	0.20	4.878	323.7
30826	*	165.00	8.00	0.30	3.577	345.5
60151	✓	200.00	10.00	0.20	5.420	419.7
30584	✓	200.00	12.00	0.30	6.504	423.5

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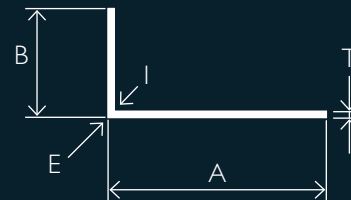
## ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	A	B	T	R (E / I)	KILO / METRE	PERIMETER mm
60048	✓	12.00	12.00	1.50	0.30 (E)	0.091	47.4
60041	*	12.00	12.00	1.60	0.30 (E)	0.097	47.4
	*	12.00	12.00	3.00		0.170	48.0
90025	✓	16.00	16.00	1.60		0.132	64.0
30233	*	19.00	19.00	1.50		0.148	76.0
60091	*	20.00	20.00	1.40	0.20 (E)	0.146	79.6
10160	✓	20.00	20.00	1.60		0.166	80.0
30892	✓	20.00	20.00	3.00	0.20 (E)	0.301	79.6
60008	*	25.00	25.00	1.40	0.30 (E)	0.184	99.4
10159	✓	25.00	25.00	1.60		0.210	100.0
30079	✓	25.00	25.00	3.00		0.382	99.5
	*	25.00	25.00	5.00		0.610	100.0
30884	*	30.00	30.00	2.00	0.30 (E)	0.314	119.4
30249	✓	30.00	30.00	3.00		0.463	120.0
90194	*	30.00	30.00	5.00		0.745	120.0
	*	30.00	30.00	6.00	0.40 (E)	0.878	120.0
60005	*	32.00	32.00	1.60	0.30 (E)	0.270	127.4
60006	✓	32.00	32.00	3.00	0.30 (E)	0.496	127.4
60045	*	40.00	40.00	1.40	0.30 (E)	0.298	159.4
30893	✓	40.00	40.00	1.60	0.20 (E)	0.304	159.6
60079	*	40.00	40.00	2.00	0.50 (E)	0.422	158.9
30080	✓	40.00	40.00	3.00		0.626	159.5
30415	✓	40.00	40.00	4.50	0.50 (E)	0.921	159.6
60144	✓	40.00	40.00	6.00	0.20 (E)	1.203	159.6
60067	✓	50.00	50.00	1.60	0.30 (E)	0.426	199.4
30232	✓#	50.00	50.00	3.00		0.789	200.0
30082	✓#	50.00	50.00	4.50	1.00 (I)	1.165	199.0
30081	✓	50.00	50.00	6.00		1.528	199.5
90236	✓	60.00	60.00	3.00		0.948	240.0
	*	60.00	60.00	6.00		1.847	240.0
30629	✓	65.00	65.00	6.00	0.20 (E)	2.016	259.6
60218	✓	75.00	75.00	3.00	0.30 (E)	1.195	299.6
30742	✓	75.00	75.00	4.50	0.30 (E)	1.774	299.4
30336	✓	75.00	75.00	6.00		2.341	300.0
	*	76.20	76.20	3.00		1.210	304.0
	*	76.20	76.20	9.00		3.485	304.8
60168	*	100.00	100.00	3.00	0.30 (E)	1.601	399.4
60153	✓	100.00	100.00	6.00	0.30 (E)	3.154	399.4
20001	✓	100.00	100.00	10.00	5.00 (E)	5.134	397.9

A = Width B = Height T = Thickness I = Internal Radii R = External Radii

\* Mill runs only, please ask regarding the availability of these # Other stock lengths available in this size.

## ALLOY 6060 : 5 METRE LENGTHS



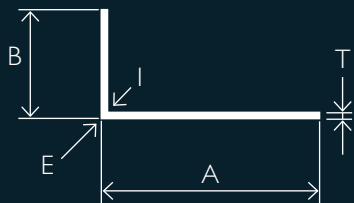
SECTION	EX STOCK	A	B	T	RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	I/E		
60092	*	20.00	12.00	1.40	0.20 (E)	0.115	63.6
30871	✓	20.00	12.00	1.60	0.30 (E)	0.131	63.4
	*	20.00	12.00	3.00		0.235	64.0
60216	*	20.00	16.00	3.00	0.30 (E)	0.268	71.4
60093	*	25.00	12.00	1.40	0.20 (E)	0.134	74.0
10161	✓	25.00	12.00	1.60		0.153	74.0
60139	✓	25.00	12.00	3.00	0.20 (E)	0.276	73.6
30020	✓	25.00	20.00	1.40	0.20 (E)	0.165	89.4
60165	*	25.00	20.00	3.00	0.30 (E)	0.341	89.4
60062	*	30.00	20.00	1.30	0.30 (E)	0.171	99.4
	*	30.00	20.00	1.60	0.40 (E)	0.210	100.0
30922	*	32.00	19.00	3.00	0.20 (E)	0.390	101.6
60009	*	32.00	20.00	1.40	0.30 (E)	0.192	103.4
60121	*	32.00	20.00	1.40	0.20 (E)	0.192	103.6
30671	✓#	32.00	20.00	1.50	0.20 (E)	0.205	103.6
30489	*	35.00	10.00	3.00	0.20 (E)	0.341	89.6
60089	*	38.00	30.00	2.40	0.30 (E)	0.426	135.4
60113	*	40.00	10.00	3.00	0.50 (E)	0.381	98.9
20494	*	40.00	18.00	1.50	0.20 (E)	0.230	115.6
10162	✓	40.00	20.00	1.50		0.238	120.0
60085	*	40.00	20.00	5.00	2.50 (E)	0.727	114.6
60114	*	40.00	25.00	1.40	0.20 (E)	0.241	129.6
90075	*	40.00	25.00	1.60		0.275	130.0
30664	✓	40.00	25.00	3.00	0.20 (E)	0.504	129.6
	*	50.00	20.00	1.60	0.40 (E)	0.297	140.0
	*	50.00	20.00	3.00		0.545	140.0
60087	*	50.00	25.00	1.40	0.20 (E)	0.279	149.6
10163	✓	50.00	25.00	1.60		0.318	150.0
30895	✓	50.00	25.00	3.00	0.20 (E)	0.585	149.6
60173	✓#	50.00	40.00	5.00	0.20 (E)	1.152	179.6
60158	*	60.00	40.00	3.00	0.30 (E)	0.788	199.4
60115	*	70.00	25.00	1.40	0.40 (E)	0.355	189.1
60200	*	70.00	25.00	1.50	0.30 (E)	0.380	189.4
30573	✓	75.00	25.00	3.00	0.20 (E)	0.789	199.6
30592	✓	75.00	50.00	3.00	0.50 (E)	0.991	248.9

A = Width B = Height T = Thickness I = Internal Radii R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire





## ALLOY 6060 : 5 METRE LENGTHS

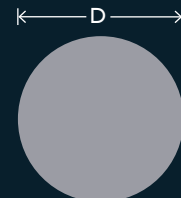
SECTION	EX STOCK	A	B	T	R (E / I)	KILO / METRE	PERIMETER mm
60256	✓	75.00	25.00	1.50	0.30 (E)	0.400	199.4
30806	✓	75.00	50.00	4.50	0.20 (E)	1.469	249.6
31040	✓	75.00	50.00	6.00	0.30 (E)	1.935	249.4
60100	*	92.00	20.00	3.00	0.20 (E)	0.886	223.6
60260	*	100.00	25.00	3.00	0.50 (E)	0.991	248.9
30642	✓	100.00	50.00	2.00	0.30 (E)	0.802	299.4
30088	✓#	100.00	50.00	3.00		1.195	299.5
30509	✓	100.00	50.00	6.00	0.50 (E)	2.341	298.9
60066	✓#	100.00	75.00	6.00	0.50 (E)	2.747	348.9
90407	*	100.00	75.00	8.00		3.620	350.0
60185	*	125.00	75.00	5.00	0.30 (E)	2.642	399.4
60101	✓#	150.00	75.00	6.00	0.30 (E)	3.561	449.4
60240	✓	150.00	75.00	8.00	0.30 (E)	4.704	449.4
30696	✓	160.00	40.00	1.80	0.20 (E)	0.965	398.4

A = Width B = Height T = Thickness I = Internal Radii R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire

## ALLOY 6060 : 6061



SECTION	EX STOCK	SIZE mm	KILO / METRE	PERIMETER mm
		D		
90061	✓	6.35	0.086	19.95
31088	✓	9.53	0.193	29.90
90088	✓	12.70	0.342	39.90
40584	*	15.00	0.479	47.10
90158	✓	16.00	0.545	50.30
90058	✓	19.05	0.769	59.85
90169	*	20.00	0.851	62.80
	*	22.22	1.052	69.84
60110	*	25.00	1.330	78.40
90063	✓	25.40	1.375	79.80
90307	*	30.00	1.916	94.48
90123	✓	31.75	2.138	99.75
90111	✓	38.10	3.078	119.69
	*	44.45	4.190	139.64
	*	50.00	5.321	157.08
90161	✓	50.80	5.472	159.59
	*	60.00	7.662	188.50
90040	*	63.50	8.551	199.49
90048	*	75.00	11.972	235.70
	*	101.60	21.890	319.19

D = Diameter

\* Mill runs only, please ask regarding the availability of these  
If the product you require is not listed please enquire



## ALLOY 6060 : 6061

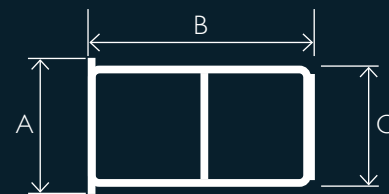
SECTION	EX STOCK	SIZE mm	KILO / METRE	PERIMETER mm
		A/F		
	*	9.53	0.243	38.12
90068	*	12.70	0.435	50.80
	*	15.88	0.681	63.52
90115	*	19.05	0.980	76.20
30519	✓	20.00	1.084	80.00
90060	*	25.40	1.741	101.60
60122	✓	26.00	1.832	103.70
90149	✓	31.75	2.721	127.00
90010	✓	38.10	3.919	152.40
90097	✓	50.00	6.750	200.00

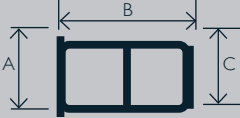
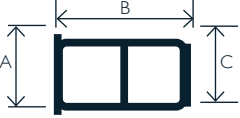
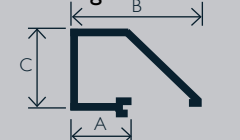
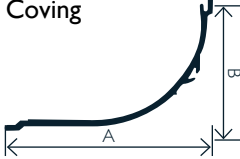
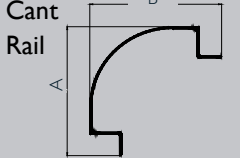
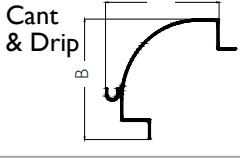
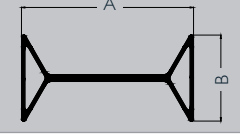
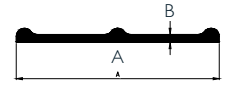
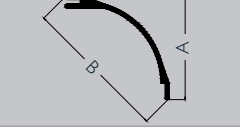
A/F = Width

\* Mill runs only, please ask regarding the availability of these

If the product you require is not listed please enquire





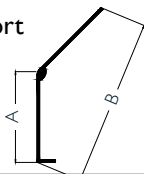
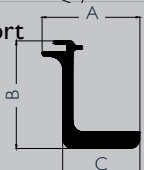

SECTION	EX STOCK	PRODUCT	A	SIZE mm	C	LENGTH mm	KILO / METRE	PERIMETER mm	ALLOY
			A	B	C				
90021	* ✓ ✓	Chassis Rail 	106.0	179.0	90.0	4.8m 5.4m 7.0m	9.624	555.7	6005A/ T5
90028	✓ ✓	Chassis Rail 	150.0	230.0	111.0	7.4m 8.7m	15.307		6005A/ T5
90347	* ✓ ✓	Coaming 	82.2	215.55	118.0	6.5m 7.3m 8.4m	7.298		6351/T5
90215	✓	Coving 	273.0	178.0		5.4m	8.63		6351/T5
90302	*	Cant Rail 	133.40	131.0			2.174		6060/T5
90303	*	Cant & Drip 	136.0	135.0			2.317		6060/T5
90002	*	Ramp Frame 	150.0	75.0	6.00/3.0		4.255	523.2	6082 /T6
90322	✓	Huck Rail 	100.0	4.0		6.0m	1.232		6061/T5
60021	*	Transport Frame 	125.1	174.70			3.252	440.0	6060/T5

A = Width B = Height T = Thickness R = External Radii C = N/A

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire

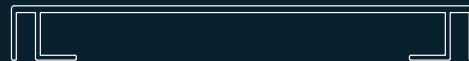
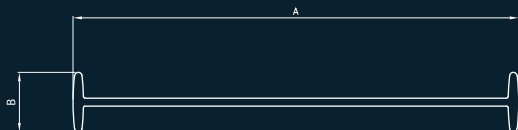


SECTION	EX STOCK	PRODUCT		SIZE mm		LENGTH mm	KILO / METRE	PERIMETER mm	ALLOY
			A	B	C				
60022	*	Transport Frame 	100.0	183.70			1.917	437.0	6060/T5
60140	*	Transport Body 	76.1	83.7	60.1		3.848	331.0	6060/T5
90042	*	Planking 	228.0	12.7			1.673		6063 /T6

A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire



## ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	PRODUCT	A	SIZE mm	KILO / METRE	PERIMETER mm
			A	B		
30572	*	Blade 	150	20	1.375	365.7
31018	✓	Frame 	170	20	1.619	534.8
60105	*	Frame 	149	25	1.306	484
60106	*	Frame 	182	22	1.802	556
60107	*	Frame 	140	25	1.295	458
60108	*	Frame 	200	25	2.206	615
60109	*	Frame 	32	25	0.453	131

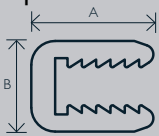
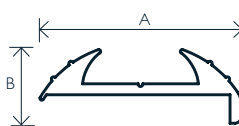
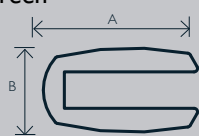

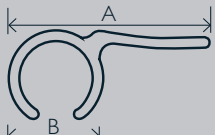


A = Width B = Height T = Thickness R = External Radii

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# Other stock lengths available in this size. If the product you require is not listed please enquire



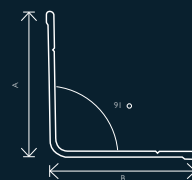
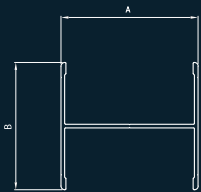
# ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	PRODUCT	A	B	T	KILO / METRE	PERIMETER mm
60051	✓	U Channel	40.0	30.0	3.5	0.724	159
60190	*	U Channel	40.0	30.0	5.0	1.356	178.3
90046	✓	U Channel	50.0	35.0	3.0	0.986	190
60052	✓	U Channel	60.0	45.0	5.0	1.706	240
90122	*	U Channel	75.0	55.0	6.0	2.490	296
32487	*	U Channel	80.0	40.0	3.0	1.021	256
31293	✓	Perspex Cap 	12.8	9.5	-	0.183	74
60150	✓	Herzim 	33.0	8.28	-	0.272	104
31002	✓	Windscreen 	22.0	12.0	-	0.373	97.2
90135	*	Double Side Awning 	32.0	13.7		0.335	110
60104	✓	Awning Track 	29.8	13.9		0.217	102.9
60233	✓	Awning Track 	27.95	12.65		0.228	95
90301	✓	Drip Mould 	24.0	12.5		0.148	76

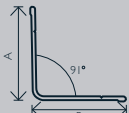
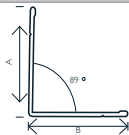
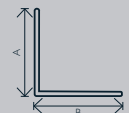

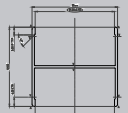
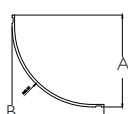
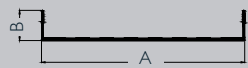

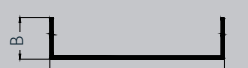
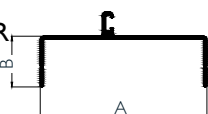
A = Base B = Leg T = Thickness

\* Mill runs only, please ask regarding the availability of these

If the product you require is not listed please enquire



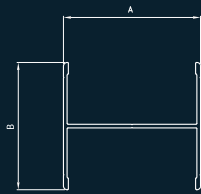
## ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	PRODUCT		SIZE mm	KILO / METRE	PERIMETER mm
			A	B		
60053	*	ANGLE 	38	38	0.302	149.3
60054	*	ANGLE 	40	40	0.323	159.6
60079	*	ANGLE 	40	40	0.422	158.9
60081	*	CHANNEL 	54.2	25	0.434	203.7
60212	*	I BEAM 	55	51	0.646	311
90253	*	COVING 	91.5	91.5	0.944	303
60227	*	I 50 DOOR CHANNEL 	168	25	1.223	437
60226	*	I 50 CHANNEL 	155	25	1.086	404.7
60225	*	I 100 CHANNEL 	105	25	0.815	304.7
60224	*	I 100 DOOR JAMB 	105	32	1.043	388.6

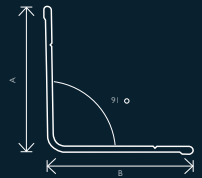
A = Width B = Height T = Thickness R = External Radii


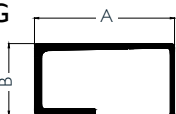
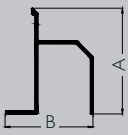
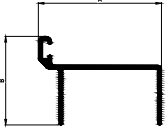
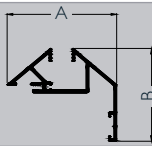
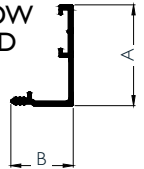
\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire



## ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	PRODUCT		SIZE mm	KILO / METRE	PERIMETER mm
			A	B		
60223	*	100 DOOR CHANNEL 	117	25	0.89	330.2
60222	*	SLIDING DOOR TRACK 	97.5	50	2.509	452
60221	*	CHAIR FRAME 	65	54	0.802	314
60228	*	50MM DOOR JAMB 	66.1	47.5	0.803	309
60229	*	50MM C/R WINDOW FRAME 	59	50	0.712	356
60230	*	C/R WINDOW FRAME BEAD 	30.2	18.7	0.22	119

A = Width B = Height T = Thickness R = External Radii

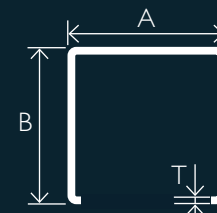
\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire

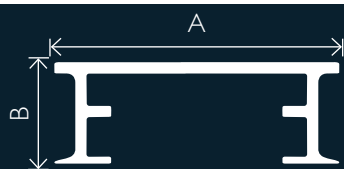




## LIPPED CHANNEL - ALLOY 6060



SECTION	EX STOCK		SIZE mm		KILO / METRE	PERIMETER mm
		A	B	T		
30940	✓	17.8	19	1.5	0.215	107.5
90030	*	100	75	6.0	3.77	544.7



## DIN RAIL - ALLOY 6060


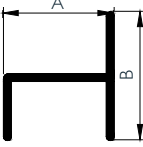
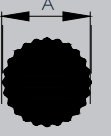
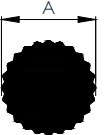
SECTION	EX STOCK		SIZE mm	KILO / METRE	PERIMETER mm
		A	B		
30807	*	35.2	13	0.382	147.8

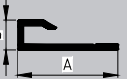
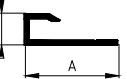
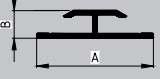
A = Width B = Height T = Thickness R = External Radii

\* Mill runs only, please ask regarding the availability of these

# Other stock lengths available in this size. If the product you require is not listed please enquire

# SUNDRY SECTIONS - ALLOY 6060

SECTION	EX STOCK	PRODUCT	SIZE mm		KILO / METRE	PERIMETER mm
			A	B		
60193	✓	DOOR HANDLE 	23.8	22.2	0.550	97.2
60013	*	H SECTION 	21.5	25	0.227	113.6
30247	*	SERRATED BAR 	9.75		0.191	33.4
60001	*	SERRATED BAR 	16		0.515	54.9

SECTION	EX STOCK	EXTRUSIONS		SIZE MM		KILO/ WEIGHT	PERI MM
			A	B	T		
60237	✓	3mm PANEL CAP 	21	6.2	1.2	0.105	67.5
60238	*	4mm PANEL CAP 	21	7.1	1.2	0.108	69.2
60239	✓	4mm PANEL JOINTER 	30	1.2	1.2	0.162	102.7

A = Width B = Height T = Thickness R = External Radii

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# Other stock lengths available in this size. If the product you require is not listed please enquire

## ALLOY 5005 : 5052



EX STOCK	THICKNESS mm	WIDTH mm	ALLOY TYPE	TEMPER	KILO/LINEAL METRE
✓	0.3	1190	3003	H16	0.974
✓	0.7	1200	5005	H32	2.268
*	0.9	900	5005	H32	2.187
✓	0.9	1200	5005	H32	2.916
✓	1.2	1200	5005	H32	3.888
✓	1.5	1200	5005	H32	4.86
*	2.0	1200	5005	H32	6.48
*	2.5	1200	5005	H32	8.10
*	3.0	1200	5005	H32	9.72
*	3.0	1500	5005	H32	12.15
*	3.0	1200	5005	H32	9.72
*	3.0	1500	5005	H32	12.15

✓	0.9	610	5052	H34	1.47
✓	0.9	940	5052	H34	2.256
✓	0.9	1220	5052	H34	2.942
*	1.2	1200	5052	H32	3.859
*	1.5	1200	5052	H32	4.824
*	2.0	1200	5052	H32	6.432
*	2.0	1500	5052	H34	8.04
*	2.5	1200	5052	H32	8.04
*	3.0	1200	5052	H32	9.648

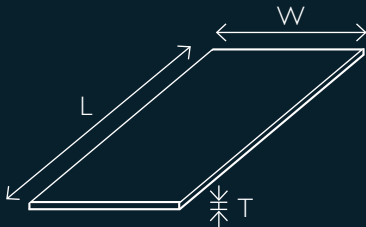
*	0.7	940	ROOFING 5052	H36	1.763
*	0.7	1220	ROOFING 5052	H36	2.288
✓	0.9	940	ROOFING 5052	H36	2.267
✓	0.9	1220	ROOFING 5052	H36	2.942
✓	0.9	2450	ROOFING 3003	H16	6.019

*	0.7	1200	STUCCO 5005	H32	2.268
✓	0.9	1200	STUCCO 5005	H32	2.916
*	1.2	1200	STUCCO 5005	H32	3.888
*	1.5	1200	STUCCO 5005	H32	4.86

\* Please ask regarding the ex stock availability  
 All coil is mill finish unless otherwise stated  
 Alternative alloys, thickness and widths of all coil are available on request  
 All weights shown are theoretical and the actual weight may vary  
 Indent facilities available

**CIRCLES AVAILABLE ON REQUEST**



## ALLOY 5005

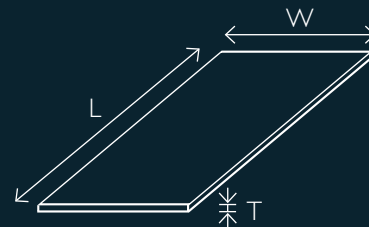
EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
*	0.45	900	2450	3003	H12	2.65
*	0.55	900	2400	3003	H12	3.24
*	0.55	1200	2400	3003	H12	4.27
*	0.55	1200	2400	5005	H32	4.27
*	0.7	900	2400	5005	H32	4.08
✓	0.7	1200	2400	5005	H34	5.44
✓	0.7	1200	3000	5005	H34	6.80
✓	0.9	900	2400	5005	H34	5.24
✓	0.9	1200	2400	5005	H34	7.00
✓	0.9	1200	3600	5005	H34	10.49
✓	1.2	1200	2400	5005	H34	9.33
✓	1.2	1200	3600	5005	H34	13.99
✓	1.2	1200	5000	5005	H34	19.44
✓	1.2	1200	6000	5005	H34	23.41
✓	1.2	1500	3000	5005	H34	14.58
✓	1.5	1200	2400	5005	H32	11.66
✓	1.5	1200	3600	5005	H32	17.49
✓	1.5	1200	5000	5005	H32	24.30
✓	1.5	1200	6000	5005	H32	29.26
✓	1.5	1500	3000	5005	H32	18.22
✓	1.5	1500	3600	5005	H32	21.87
✓	2.0	1200	2400	5005	H32	15.55
✓	2.0	1200	3000	5005	H32	19.44
✓	2.0	1200	3600	5005	H32	23.33
✓	2.0	1200	5000	5005	H32	32.40
✓	2.0	1200	6000	5005	H32	38.90
✓	2.0	1500	3000	5005	H32	24.30
✓	2.0	1500	3600	5005	H32	29.16
✓	2.5	1200	2400	5005	H32	19.44
*	2.5	1500	3000	5005	H32	30.37
✓	3.0	1200	2400	5005	H32	23.33
✓	3.0	1200	3000	5005	H32	29.16
✓	3.0	1200	3600	5005	H32	34.99
✓	3.0	1500	3000	5005	H32	36.45
✓	3.0	1500	3600	5005	H32	43.74
5005 ANODISED SHEET SATIN, 25 MICRON						
✓	1.20	1200	2400	5005	H34	9.33

T = Thickness W = Width L = Length

\* Please ask regarding the ex stock availability. All sheet is mill finish unless otherwise stated



## ALLOY 5052 : 5083



EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
*	0.9	1200	2400	5052:5251	H34	6.95
✓	1.2	1200	2400	5052:5251	H32	9.26
✓	1.2	1500	3000	5052:5251	H32	14.634
✓	1.5	900	2400	5052:5251	H32	8.68
✓	1.5	1200	2400	5052:5251	H32	11.58
✓	2.0	900	2400	5052:5251	H32	11.58
✓	2.0	1200	2400	5052:5251	H32	15.43
✓	2.0	1500	3000	5052:5251	H32	24.12
✓	2.0	1500	3600	5052:5251	H32	28.94
*	2.5	900	2400	5052:5251	H32	14.47
✓	2.5	1200	2400	5052:5251	H32	19.29
✓	2.5	1500	3000	5052:5251	H32	30.15
✓	3.0	1200	2400	5052:5251	H32	23.15
✓	3.0	1200	4800	5052:5251	H32	46.31
✓	3.0	1200	6100	5052:5251	H32	58.85
✓	3.0	1500	2500	5052:5251	H32	30.15
✓	3.0	1500	3000	5052:5251	H32	36.18
✓	3.0	1500	3600	5052:5251	H32	43.41
✓	3.0	1500	4800	5052:5251	H32	57.88
✓	3.0	1830	6100	5052:5251	H32	89.75
✓	3.0	1200	2400	5083	H116/321	22.98
✓	3.0	1200	6100	5083	H116/321	58.85
✓	3.0	1200	6500	5083	H116/321	63.41
✓	3.0	1830	6100	5083	H116/321	89.08

T = Thickness W = Width L = Length

\* Please ask regarding the ex stock availability

All sheet is mill finish unless otherwise stated

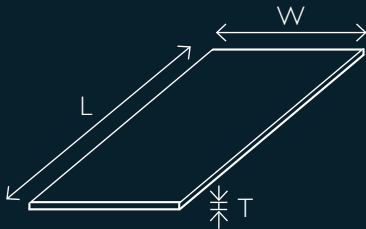
Powder coating is available on request

Most of our sheet is plastic coated one side

All weights shown are theoretical and the actual weight may vary

If the product you require is not listed please enquire

**CIRCLES AVAILABLE ON REQUEST**



## ALLOY 5005 : 1100/1200

EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
*	0.7	1200	2400	5005	H32	5.46
✓	0.9	1200	2400	5005	H32	6.99
✓	1.2	1200	2400	5005	H32	9.35
✓	0.7	914	2400	1100	H12	4.09
✓	0.7	1200	2400	1100	H14	5.46
✓	1.2	914	2400	1100	H14	7.02

T = Thickness W = Width L = Length

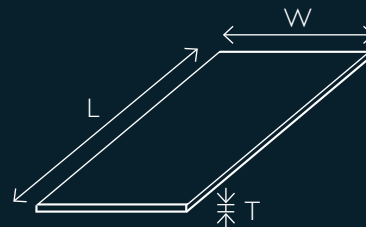
\* Please ask regarding the ex stock availability

All sheet is mill finish unless otherwise stated

All weights shown are theoretical and the actual weight may vary

If the product you require is not listed please enquire

## ALLOY 5005 : 5052



EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	4.0	1200	2400	5005	H32	31.10
*	4.0	1200	4800	5005	H32	62.20
✓	5.0	1200	2400	5005	H32	38.88
*	5.0	1200	4800	5005	H32	77.76
*	6.0	1200	2400	5005	H32	46.65
*	6.0	1200	4800	5005	H32	93.31

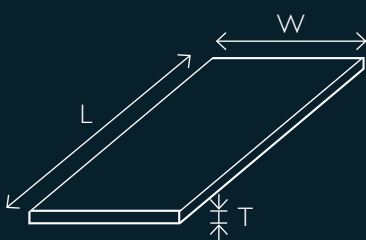
✓	4.0	1200	2400	5052	H32	30.87
✓	4.0	1200	4800	5052	H32	61.74
✓	4.0	1500	3000	5052	H32	48.24
✓	4.0	1500	3600	5052	H32	57.88
✓	4.0	1500	4900	5052	H32	79.38
✓	4.0	1500	5400	5052	H32	87.80
✓	4.0	1830	6100	5052	H32	119.66
✓	5.0	1200	2400	5052	H32	38.59
*	5.0	1200	4800	5052	H32	77.18
✓	5.0	1500	3000	5052	H32	60.30
✓	5.0	1500	3600	5052	H32	72.36
✓	6.0	1200	2400	5052	H32	46.31
*	6.0	1200	4800	5052	H32	92.62
✓	6.0	1500	3000	5052	H32	72.36
✓	6.0	1500	3600	5052	H32	86.83
✓	8.0	1500	3000	5052	H32	97.56
✓	12.0	1200	3000	5052	H32	115.78

W = Width L = Length T = Thickness

\* Please ask regarding the ex stock availability

Indent available for alternative sizes and thickness

All weights shown are theoretical and the actual weight may vary



## ALLOY 5083

### MAJORITY OF THE SIZES HAVE LLOYDS OR DNV CERTIFICATION

EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	4.0	1200	2400	5083	H321/H116	30.64
✓	4.0	1200	4800	5083	H321/H116	61.28
✓	4.0	1200	6100	5083	H321/H116	77.85
✓	4.0	1200	8200	5083	H321/H116	104.79
✓	4.0	1830	6100	5083	H321/H116	118.77
✓	5.0	1200	2400	5083	H321/H116	38.30
✓	5.0	1200	4800	5083	H321/H116	76.60
✓	5.0	1200	6100	5083	H321/H116	97.35
✓	5.0	1830	6100	5083	H321/H116	148.46
✓	5.0	2000	8000	5083	H321/H116	212.80
✓	6.0	1200	2400	5083	H321/H116	45.96
✓	6.0	1200	2500	5083	H321	47.88
✓	6.0	1200	4800	5083	H321/H116	91.93
✓	6.0	1200	6100	5083	H321/H116	116.82
✓	6.0	1830	6100	5083	H321/H116	178.16
✓	6.0	1830	8000	5083	H321/H116	233.65
✓	8.0	1200	2400	5083	H321/H116	61.28
✓	8.0	1830	6100	5083	H321/H116	237.19
✓	10.0	1200	2400	5083	H321/H116	76.60
✓	10.0	1830	6100	5083	H321/H116	296.63
✓	12.0	1200	2400	5083	H321/H116	91.93
✓	12.0	1830	6100	5083	H321/H116	356.32
✓	16.0	1200	2400	5083	H321/H116	122.57
✓	16.0	1830	6100	5083	H321/H116	475.10
✓	20.0	1200	2400	5083	H321/H116	153.21
✓	25.0	1200	2400	5083	H321/H116	191.52
✓	32.0	1200	2400	5083	H321/H116	245.14
*	40.0	1200	2400	5083	H321/H116	306.43
*	50.0	1200	2400	5083	H321/H116	383.04
*	60.0	1200	2400	5083	H321/H116	459.65
*	80.0	1200	2400	5083	H321/H116	612.86
*	100.0	1200	2400	5083	H321/H116	766.08

W = Width L = Length T = Thickness

All sheet is mill finish unless otherwise stated

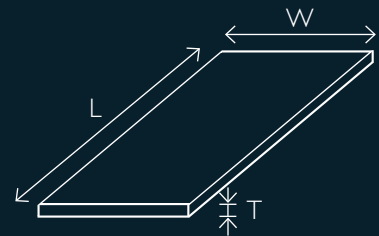
\* Please ask regarding the ex stock availability

Indent available for alternative sizes and thickness

All weights shown are theoretical and the actual weight may vary



## ALLOY 5052



## TREAD PLATE 5 BAR

EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	1.6	1200	2400	5052	H114#	12.85
✓	2.0	1200	2400	5052	O	18.15
✓	3.0	1200	2400	5052	H114#	26.68
✓	3.0	1200	4800	5052	H114#	53.36
✓	3.0	1500	3600	5052	O	52.00
✓	3.0	1500	4500	5052	H114#	64.00
✓	3.0	1700	4000	5052	H114#	72.55
✓	4.0	1200	2400	5052	H114#	34.88
✓	4.0	1200	4800	5052	H114#	69.88
✓	4.0	1500	3600	5052	O	65.51
✓	4.0	1500	4500	5052	O	81.89
✓	5.0	1200	2400	5052	H114#	85.50
✓	5.0	1500	3000	5052	O	64.12
✓	5.0	1500	3600	5052	O	73.17
✓	6.0	1200	2400	5052	O	51.30
✓	6.0	1500	3000	5052	O	73.17
✓	6.0	1500	3600	5052	O	87.80

Base Thickness = As Above.    Approx Total Thickness = Add 1.0-1.5mm

## BRIGHT PROPELLER PATTERN : ONE BAR

## TREAD PLATE PROPELLER

EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	1.6	1200	2400	3003	H22	12.90
✓	3.0	1200	2400	3003	H22	26.68

W = Width L = Length T = Thickness

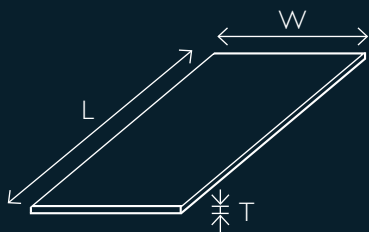
All sheet is mill finish unless otherwise stated

\* Please ask regarding the ex stock availability

Indent available for alternative sizes and thickness


All weights shown are theoretical and the actual weight may vary

#Temper may also be O or F



## SINGLE DIAMOND PATTERN : MILL

EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	FINISH	KILO / SHEET
	T	W	L		
✓	7.00	750	2050	MILL	4.17
✓	7.00	920	2050	MILL	5.11
✓	7.00	1250	2050	MILL	6.94

SECTION	EX STOCK	EXTRUSIONS		SIZE MM		KILO/ WEIGHT	PERI MM	
			A	B	T			
60232	✓	SECURITY GRILL CHANNEL		10.3	15.0	1.5	0.151	76.8







**INEX ULTRA ANODISED** is the latest international trend in surface finishing.

A brilliant new anodising process that provides a smoother superior finish, while being relatively free of grain. It exhibits a more constant low- reflective lustre and gloss level, which is being requested for current world wide architectural finishes.

This very new German technology achieves a flatter etch than traditional anodising, as it leaves a smoother surface than mechanical finishes, with a similar low level of gloss.

Benefits.

- Smoother surface finish, means easier cleaning.
- No typical size restrictions , as experienced with machinery for mechanical finishes.
- More consistent finish.
- More eco friendly than alternative similar processes.
- A standard warranty period of 5 years applies to all micron levels.

## SURFACE FINISHING : ANODISING

**SUPER SEAL**

This incredible European seal technology has been developed to further enhance long term corrosion protection on anodising, offering more resistance to chemicals and more importantly to mortar based products. This makes it ideal for installation especially in architectural / construction based applications. Add this option to our current seal process, and Super Seal carries a greatly extended warranty.

- 25 micron anodising, 20 year warranty.
- 20 micron anodising, 15 year warranty.
- 12 micron anodising, 10 year warranty.

Anodising enhances the natural metal finish of aluminium while having the ability to add colour. On aluminium it provides a harder more durable finish than most other coatings as it controls the natural oxidation of bare aluminium.

**Inex Metals offers an extensive range of popular colours, including Satin (clear), Bronze, Black and Champagne with various thicknesses from 12 micron to 25 micron.**

TABLE 1 - MINIMUM COATING THICKNESS NZS3604 CORROSION ZONE

ZONE	DESCRIPTION	MINIMUM THICKNESS MICRONS	SUGGESTED THICKNESS MICRONS
Sea Spray	Typically within 500m of the sea or within 100m of tidal estuaries. Predominantly the west coast of the South Island and the west coast of the top half of the North Island. This zone also includes all offshore islands.	25 micron	25 microns
1	Coastal areas that are not deemed 'Sea Spray' but are still close to the coast, this includes most of Auckland	20 micron	25 microns
2	Inland coastal areas that would normally lie between coastal and hill country	12 micron	20 microns
3	Inland New Zealand, typically hill country where rainfall is plentiful.	12 micron	12 microns
4	Geothermal areas. Other areas to be included in this zone would be swimming pools, polluted and high corrosion risk areas.	25 micron	25 microns
Note			
1	All exterior black minimum 20 microns - application specific.	20 microns	25 application specific
2	All bright anodised maximum 20 micron to avoid dulling of finish.	12 microns	



**POWDER COATING**

Powder coating is an electrostatic process whereby electrically charged particles in the form of powder are sprayed onto the surface of pre treated aluminium. Once the paint is applied, the aluminium is baked, then oven cured and this achieves a highly durable, painted finish.

To obtain this quality an extensive pre-treatment process of eight stages is completed under very stringent controls.

One of the major benefits of powder coating is that it provides aluminium with a strong protective coating while offering an extensive range of colours.

Inex Metals powder coating can provide a quality finish for many applications on all shapes of aluminium extrusions as follows.

- Painting for industrial products.
- Painting of all architectural products.
- Heat resistant applications.
- Antibacterial surfaces.
- Wear resistant applications.

A selection of over 200 colours ex stock is available, with a wide range of warranties to suit all applications.

**TIMBER FINISH**

This is a heat bonded “wood grain” surface finish that can be supplied for a wide range of applications to satisfy various applications on aluminium extrusions.

Inex Metals can provide an extensive range of popular Natural Wood Grain Finishes to cover both domestic and industrial applications.

Not only does it feel like the real thing but it is a durable finish that provides low maintenance for this premium product with excellent warranties.

## MATCHING PRODUCTS TO AAMA SPECIFICATION

To achieve the standard	AAMA 2603	AAMA 2604	AAMA 2605
	Specify	Specify	Specify
Dulux Powder & Industrial Coatings	Duralloy	Duratec / Electro	Fluroset FP
Coating type	TGIC free extra Durable Polyester	High Durability Polyester	Super Durable Fluoropolymer
Product I.D. code	Line 915	Line 900/906	Line 964
<b>Scope of Warranties Offered</b>			
Film Integrity Warranty	10 years	20 years	30 years
Colour Integrity Warranty	10 years (fade)	15 years (fade & Chalk)	20 years (fade & Chalk)
It should be noted, that at the time of printing Fluoropolymer Chemistry (such as Fluroset FP) is the only products chemistry to meet the requirements of AAMA2605. N.B. Dulux Powder & Industrial Coatings must be applied by a Dulux Powder & Industrial Coatings. Registered Applicator to the Dulux Powder & Industrial Coatings specifications to attract these warranties.			
<b>Powder Coating Features and Benefits</b>			
Exterior durable	One coat hard wearing polyester	One coat hard wearing polyester	One coat hard wearing fluoropolymer
Clean & Green	Environmentally friendly	Environmentally friendly	Environmentally friendly
Colour range	Large stock colour range including exciting pearlescents	Good made to order colour range including exciting pearlescents	Highly durable made to order colour range including exciting pearlescents
High transfer efficiency	Excellent coating economies	Excellent coating economies	Excellent coating economies
Excellent flow	Smooth film appearance	Smooth film appearance	Smooth film appearance
<b>Specifying powder coating that complies to one of the above AAMA standards removes all doubt for the joinery supplier, both the joinery supplier and the powder coater will be instantly aware of the standard of product demanded for the project since the standards spell out the level of both colour and film performance required.</b>			

**Specification - the correct product for each situation**

Project	Environment	Project
Multistorey Prestigious	Marine	Fluroset FP®
Multistorey Prestigious	Standard	Fluroset FP® (or Duratec® /Electro™)
Multistorey Commercial or Industrial	Marine	Duratec®, Electro™ (or Fluroset FP®)
Multistorey Commercial or Industrial	Standard	Duratec®, Electro™ (or Fluroset FP®)
Multilevel Building under 3 Levels	Marine	Duratec®, Electro™ (or Fluroset FP®)
Multilevel Building under 3 Levels	Standard	Duratec®, Electro™ (or Duralloy®)
Educational-School single Level	Marine	Duratec®, Electro™ (or Fluroset FP®)
Educational-School single Level	Standard	Duralloy® (or Duratec® /Electro™)
Residential-Prestigious	Marine-Severe	Fluroset FP®
Residential	Marine	Duratec®, Electro™ (or Fluroset FP®)
Residential	Standard	Duralloy®

**Prior to decision please confirm suitability for application.**



INEX Metals Ltd (IML) offers a custom Flat Bed Routing and Precision Saw cutting service adding value to our clients manufacturing and fabricating processes.

Whether a one off job or repetitive ongoing business is required, the precision, accuracy and finish delivered by our CNC cutting services offers quality and consistency that gives our clients improved efficiencies.

For further information on our added value services please contact your local Inex Metals account manager.



#### CNC PLATE ROUTER

PLATE SIZE	PLATE THICKNESS	ALLOYS
Up to 2500mm X 13000mm	2mm – 50mm	5052 / 5083

#### EXTRUSION SAW

MAX LENGTH	MAX SIZE EXTRUSION	TOLERANCE
6000mm	300mm X 150mm	+/- 0.5mm

## DEFINITION OF TERMS : ALUMINIUM &amp; ITS ALLOYS

*The following basic terms are used in the text and in the various tables presented in this publication. Since complete understanding of these terms will enhance the usefulness of the information presented, accepted definitions of these terms are included.*

**STRESS**

Stress is the intensity of force within a loaded body which resists a change in shape. It is measured in megapascals (MPa). Stress is normally calculated on the basis of the original cross-sectional dimensions. The three kinds of stresses are TENSILE, COMPRESSIVE and SHEARING. Flexure or bending involves a combination of tensile and compressive stress. Torsion involves shearing stress.

**STRAIN**

Strain is a measure of the change in size or shape of a body due to force, referred to its original size or shape. Tensile or compressive strain is the change due to force, per unit of length, in an original linear dimension in the direction of the force. It is usually measured as the change (in mm) per mm of length.

**TENSILE STRENGTH**

Ultimate tensile strength is the maximum tensile stress which a material is capable of developing under a gradual and uniformly applied strain.

Tensile strength is calculated from the maximum applied load during a tension test and the original cross-sectional area of the specimen.

**YIELD STRENGTH**

Yield strength is the stress at which a material exhibits a specified permanent set after being strained beyond the elastic limit. The value of set used for aluminium and its alloys is 0.002mm per mm (0.2%). The term yield strength used in this publication is synonymous with the term 0.2% proof stress used in BS specifications. For the aluminium alloys the yield strength in tension and compression are approximately equal.

**COMPRESSIVE YIELD**

Compressive yield is the compressive stress which produces a specified permanent set in a material. In aluminium alloys, the value of permanent set is taken as 0.2% of the initial gauge length, the same as in tensile yield.

**ELONGATION**

Elongation is the increase in distance between two gauge marks which results from stressing the specimen in tension to fracture. Original gauge length is usually 50mm for flat specimens or 5.65 times the square root of the cross-sectional area for round specimens. Elongation values depend to some extent upon size and form of the test specimens. For example, the values obtained from flat specimens will be lower for thin material than for thick material.

**SHEAR STRENGTH**

Shear strength is the maximum shearing stress which a material is capable of developing. In practice it is considered to be the maximum average stress computed by dividing the ultimate load in the plane of shear by the original area subject to shear. Shear strength is usually determined by inserting a cylindrical specimen through round holes in three hardened steel blocks, the centre of which is pulled (or pushed) between the other two so as to shear the specimen on two planes.

The maximum load divided by the combined cross-sectional area of the two planes is the shear strength.

**HARDNESS**

Hardness is a measure of resistance to indentation. Common scales used for aluminium alloys are the Brinell (HB), Vickers (HV) and Rockwell B (HRB) scales.

**ENDURANCE LIMIT**

Endurance limit (fatigue strength) is the limiting stress below which a material will withstand an indefinitely large number of cycles of stress. In the case of aluminium alloys, endurance limits are based on 500,000,000 cycles of completely reversed stress, using the rotating-beam type of machine and specimen.

**MODULUS OF ELASTICITY**

Modulus of elasticity is the ratio of stress to corresponding strain throughout the range where they are proportional in an elastic material. As there are three kinds of stresses, so are there three kinds of moduli of elasticity for any material - modulus in tension, in compression and in shear.

**MODULUS OF RIGIDITY**

Modulus of rigidity is the same as modulus of elasticity in shear.

**ELECTRICAL RESISTIVITY**

Electrical resistivity is the electrical resistance of a body of unit length and unit cross-sectional area. This is expressed in microhm-metre, at 20°C.

**ELECTRICAL CONDUCTIVITY**

Electrical conductivity is the capacity of a material to conduct or allow the flow of an electric current. Conductivity values for aluminium are expressed in MS/m, at 20°C.

**THERMAL CONDUCTIVITY**

The rate at which a material can remove heat from a high temperature zone and transmit it to a low temperature zone. The rate depends also on the cross-sectional area, length and temperature difference pertaining to a given material section.



*The temper designation system is used for all forms of wrought aluminium and aluminium alloys. It is based on the sequences of basic treatments usually used to produce the various tempers. The temper designation follows the alloy designation, the two being separated by a dash.*

*Basic temper designations consist of letters. Subdivisions of the basic tempers, where required, are indicated by one or more digits following the letter. These designate specific sequences of basic treatments, but only operations recognized as significantly influencing the characteristics of the product are indicated. Should some other variation of the same sequence of basic operations be applied to the same alloy, resulting in difference characteristics, then additional digits are added to the designation.*

*The basic temper designations and subdivisions are as follows:*

**F: As fabricated**

Applies to products which acquire some temper from shaping processes not having

special control over the amount of strain-hardening or thermal treatment. For wrought products, there are no mechanical property limits.

**O: Annealed, recrystallised**

Applies to the softest temper of wrought products.

**H: Strain-hardened**

Applied to products which have their strength increased by strain-hardening with or without supplementary thermal treatments to produce partial softening. The H is always followed by two or more digits. The first digit indicated the specific combination of basic operations as follows:

**H1: Strain-hardened only**

Applies to products which are strain-hardened to obtain the desired mechanical properties without supplementary thermal treatment. The number following this designation indicates the degree of strain-hardening.

**H2: Strain-hardened and then partially annealed**

Applies to products which are

strain-hardened more than the desired final amount, then reduced in strength to the desired level by partial annealing. For alloys that age-soften at room temperature, the H2 tempers have approximately the same ultimate strength as the corresponding H1 tempers and slightly higher elongations. The number following this designation indicated the degree of strain-hardening remaining after the product has been partially annealed.

**H3: Strain-hardened and then stabilized**

Applies to products which are strain-hardened and then stabilized by a low-temperature heating to slightly lower their strength and increase ductility. This designation applies only to the magnesium-containing alloys which, unless stabilized, slightly age-soften at room temperature. The number following this designation indicates the degree of strain-hardening remaining after the product has been strain-hardened a specific amount and then stabilized.

The final degree of strain-hardening is designated as follows. Numeral 8 has been assigned to indicate tempers having a final degree of strain-hardening equivalent to that resulting from approximately 75% reduction of area. Tempers between 0 (annealed) and 8 (fully-hard) are designated by the numerals 1 through 7. Material having an ultimate strength about midway between that of the 0 temper and that of the 8 temper is designated by the number 4 (half-hard), between 0 and 4 by the numeral 2 (quarter-hard), between 4 and 8 by the numeral 6 (three-quarter-hard) and so on for the numerals 1, 3, 5 and 7. Numeral 9 designated extra hard tempers.

The third digit, when used, indicated a variation of a two-digit H temper. It is used when the degree of control of temper or the mechanical properties are different from, but close to, those for the two-digit H temper designation to which it is added. For this purpose numerals 1 to 9 may be arbitrarily assigned and registered with the Aluminium Development Council

for an alloy and product to indicate a specific degree of control of temper or specific mechanical property limits.

The following three-digit H temper designations have been assigned for wrought products in all alloys:

#### **H111**

Applied to products which are strain-hardened less than the amount required for a controlled H11 temper.

#### **H112**

Applies to products not having special control over the amount of strain-hardening or thermal treatment but which acquire some temper incidental to the shaping processes and for which there are mechanical property limits or mechanical property testing is required.

#### **H121**

Applies to products which are strain-hardened less than the amount required for a controlled H12 temper.

#### **H311**

Applies to products which are strain-hardened less than the amount required for a controlled H31 temper.

#### **H321**

Applies to products which are strain-hardened less than the amount required for a controlled H32 temper. It is specially fabricated to have acceptable resistance to stress-corrosion cracking and exfoliation attack. The H116 temper is also used for this application.

The following three-digit H temper designations have been assigned for wrought products in alloys containing over 4% magnesium:

#### **H323 and H343**

Apply to products that are specially fabricated to have acceptable resistance to stress-corrosion cracking and exfoliation attack.

**T**

*Thermally treated to produce stable tempers other than F, O or H. Applies to products which are thermally treated, with or without supplementary strain-hardening, to produce stable tempers. The T is always followed by one or more digits. Numbers 1 through 9 have been assigned to indicate specific sequences of basic treatments. A period of natural ageing at room temperature may occur between or after the operations listed for tempers T3 to T9. Control of this period is exercised when it is metallurgically important. Solution heat-treated as applied to tempers T3, T4, T6, T7, T8 or T9 can also be applied to rapid cooling from an elevated temperature working process.*

*The significance of the digits following the T is as follows:*

**T1**

Cooled from an elevated temperature shaping process and naturally aged to a substantially stable condition. Applies to products for which the rate of cooling from an elevated temperature shaping process, such as extrusion, is such that their strength is increased by room temperature ageing.

**T3**

Solution heat-treated or cooled from an elevated temperature shaping process and then cold-worked and naturally aged to a substantially stable condition. Applies to products which are cold worked to improve strength, or in which the effect of cold work in flattening or straightening is recognized in applicable specifications.

**T4**

Solution heat-treated or cooled from an elevated temperature shaping process and naturally aged to a substantially stable condition. Applies to products which are not cold worked after solution heat-treatment, or in which the effect of cold work in flattening or straightening may not be recognized in applicable specifications.

**T5**

Cooled from an elevated temperature shaping process and then artificially aged. Applies to products which are cooled from an elevated temperature shaping process, such as casting or extrusion and then artificially aged to improve mechanical properties or dimensional stability or both.

**T6**

Solution heat-treated or cooled from an elevated temperature shaping process and then artificially aged. Applies to products which are not cold worked after solution heat treatment, or in which the effect of cold work in flattening or straightening may not be recognized in applicable specifications.

**T7**

Solution heat-treated or cooled from an elevated temperature shaping process and then stabilized. Applies to products which are stabilized to carry them beyond the point of maximum strength to provide control of some special characteristics.

**T8**

Solution heat-treated or cooled from an elevated temperature shaping process, cold worked and then artificially aged. Applies to products which are cold worked to improve strength, or in which the effect of cold work in flattening or straightening is recognized in applicable specifications.

### T9

Solution heat-treated or cooled from an elevated temperature shaping process, artificially aged and then cold worked. Applies to products which are cold worked to improve strength.

#### Additional digits

May be added to designations T1 through T9 to indicate a variation in treatment which significantly alters the characteristics of the product. The following two-digit temper designations have been assigned for wrought products heat-treated from the O or F temper to demonstrate response to heat-treatment:

### T42

Solution heat-treated or cooled from an elevated temperature shaping process from the O or F temper to demonstrate response to heat-treatment and naturally aged to a substantially stable condition.

### T62

Solution heat-treated or cooled from an elevated temperature shaping process from the O or F temper to demonstrate response to heat-treatment and artificially aged.

*Temper designations T42 and T62 may also be applied to wrought products heat-treated from any temper by the user when such heat-treatment results in the mechanical properties applicable to these tempers.*

### T591 & T595

A variation of T5 Temper. Designed to combine good bending properties with intermediate strength. Between T4 and T5 and is stable.

### T891

6063 alloy drawn tube temper suitable for end flattening.

### T893

Drawn tube temper with higher properties than T83 in alloy 6106.

### STRESS RELIEVED BY STRETCHING

**T51** Applies to plate and rolled or cold-finished rod and bar when stretched the indicated amounts after solution heat-treatment or after cooling from an elevated temperature shaping process. The products receive no further straightening after stretching.

**Plate:** 1.5 - 3% permanent set.

#### Rolled or cold-finished

**rod and bar:** 1 - 3% permanent set.

**T510** Applies to extruded rod, bar, shapes and tube and to drawn tube when stretched the indicated amounts after solution heat-treatment or after cooling from an elevated temperature shaping process. The products receive no further straightening after stretching.

#### Extruded rod, bar, shapes

**and tube:** 1 - 3% permanent set.

**Drawn tube:** 0 - 3% permanent set.

### T511

Applies to extruded rod, bar, shapes and tube and to drawn tube when stretched the indicated amounts after solution heat-treatment or after cooling from an elevated temperature shaping process. The products may receive minor straightening after stretching to comply with standard tolerances.

#### Extruded rod, bar, shapes

**and tube:** 1 - 3% permanent set.

**Drawn tube:** 0.5 - 3% permanent set.

# MECHANICAL PROPERTY LIMITS : EXTRUDED PRODUCTS

The values given are deemed to be a general guide. No implication for end use is confirmed for design. For confirmation please contact your closest Inex Metals office.								
ALLOY	TEMPER	Thickness (mm)		Tensile Strength (MPa)				Elongation (% min in 50mm or 5.65 √A )
		Over	Up to	Ultimate		Yield		
				Min	Max	Min	Max	
1350	- H112	All thicknesses		60				23
2011	- T4	All thicknesses		275		125		14
2011	- T6	-	25.0	350		220		8
		25.0	75.0	345		220		8
		75.0	-	340		200		8
2014	- T4	-	10.0	370		240		15
		10.0	100.0	385		245		13
		100.0	150.0	385		245		10
		150.0	200.0	370		240		10
2014	- T6	-	10.0	430		385		8
		10.0	25.0	465		415		6
		25.0	100.0	495		450		6
		100.0	150.0	465		415		6
6351	- T4	-	150.0	185		115		16
6351	- T5	All thicknesses		260		240		8
6351	- T54	-	12.5	205		140		10
6351	- T6	-	150.0	295		255		8
6082	- T4	-	150.0	190		120		14
		150.0	200.0	170		110		11
6082	- T5	-	6.0	270		230		8
6082	- T6	-	20.0	295		255		7
		20.0	150.0	310		270		7
		150.0	200.0	280		240		5
6061	- O <sup>5</sup>	All thicknesses		150		110		14
6061	- T1	-	12.5	180		95		16
6061	- T4	All thicknesses		180		110		14
6061	- T42	All thicknesses		180		85		14
6061	- T51	-	16.0	240		205		8
6061	- T6	All thicknesses		260		240		8
6262	- T6	All thicknesses		260		240		8
6060	- O	All thicknesses		130				16
6060	- T1	-	12.0	115		60		12
		12.0	25.0	110		55		10
6060	-T4			120		60		14
6060	-T591	All	12.0	120		75		12
6060	- T5	-	12.0	150		110		6
		12.0	25.0	145		105		
6060	- T52	-	12.0	150	205	110		8
SF6060	- T6			205		170		8
6063	- O	All thicknesses		130				16
6063	-T1	-	12.0	115		60		12
		12.0	25.0	110		55		10
6063	- T4	-	150.0	130		70		12



## MECHANICAL PROPERTY LIMITS : EXTRUDED PRODUCTS

The values given are deemed to be a general guide. No implication for end use is confirmed for design. For confirmation please contact your closest Inex Metals office.								
ALLOY	TEMPER	Thickness (mm)		Tensile Strength (MPa)				Elongation (% min in 50mm or 5.65 √A)
		Over	Up to	Ultimate Min	Max	Yield Min	Max	
6063	- T5	-	12.0	150		110		8
		12.0	25.0	145		105		6
6063	- T52	-	12.0	150	205	110		8
6063	- T6	-	25.0	205		170		8
		25.0	150.0	185		160		10
6063	- H112	All thicknesses		110				13
6106	- T4	-	150.0	130		70		12
6106	- T6	-	10.0	235		210		8
		10.0	25.0	205		170		8
		25.0	150.0	185		160		10
6463A	- T1	-	12.0	115		60		12
6463A	- T5	-	12.0	150		110		8
6463A	- T6	-	3.0	205		170		8
		3.0	12.0	205		170		10
6005A	- T4	-	12.0	180		110		14
6005A	- T5	All thicknesses		260		240		8
6261	- T1	All thicknesses		190		115		14
6261	- T5	-	5.0	295		255		7
		5.0	10.0	280		240		7
6261	- T6	All thicknesses		295		255		7
7005	- T53	-	20.0	350		300		10

# MECHANICAL PROPERTY LIMITS : SHEET & PLATE

The following typical mechanical properties are averages which take into account the variations introduced by the type of wrought product, size, shape and method of manufacture.								
ALLOY	TEMPER	Thickness (mm)		Tensile Strength (MPa)				Elongation (% min in 50mm or 5.65 √A)
		Over	Up to	Ultimate Min      Max		Yield Min      Max		
1050	- O	0.15	0.50	95				15
		0.50	0.80	95				20
		0.80	1.30	95				25
		1.30	6.00	95				30
1050	- H12	0.25	0.50	80	110			4
		0.50	0.80	80	110			5
		0.80	1.30	80	110			6
		1.30	2.60	80	110			8
		2.60	6.00	80	110			12
1050	- H14	0.25	0.30	100	125			2
		0.30	0.50	100	125			3
		0.50	0.80	100	125			4
		0.80	1.30	100	125			5
		1.30	2.60	100	125			6
		2.60	12.00	100	125			8
1050	- H16	0.15	0.50	115	140			2
		0.50	0.80	115	140			3
		0.80	1.30	115	140			4
		1.30	4.00	115	140			5
1050	- H18	0.15	0.50	130				1
		0.50	0.80	130				2
		0.80	1.30	130				3
		1.30	1.60	130				4
		1.60	3.25	130				5
1050	- H112	6.00	25.00	60				30
1100	- O	0.15	0.50	75	105	25		15
		0.50	0.80	75	105	25		20
		0.80	1.30	75	105	25		25
		1.30	6.00	75	105	25		30
		6.00	75.00	75	105	25		26
1100	- H12	0.40	0.50	95	130	75		3
		0.50	0.80	95	130	75		4
		0.80	1.30	95	130	75		6
		1.30	3.00	95	130	75		8
		3.00	6.00	95	130	75		9
		6.00	12.00	95	130	75		9
		12.00	50.00	95	130	75		10
1100	- H14	0.25	0.30	110	145			1
		0.30	0.50	110	145	95		2
		0.50	0.80	110	145	95		3
		0.80	1.30	110	145	95		4
		1.30	3.00	110	145	95		5
		3.00	6.00	110	145	95		6
		6.00	12.00	110	145	95		6
		12.00	25.00	110	145	95		8
1100	- H16	0.15	0.50	130	165	115		1
		0.50	0.80	130	165	115		2
		0.80	1.30	130	165	115		3
		1.30	4.00	130	165	115		4
1100	- H18	0.15	0.50	150				1
		0.50	0.80	150				2
		0.80	1.30	150				3
		1.30	3.25	150				4

# MECHANICAL PROPERTY LIMITS : SHEET & PLATE

The following typical mechanical properties are averages which take into account the variations introduced by the type of wrought product, size, shape and method of manufacture.							
ALLOY	TEMPER	Thickness (mm)		Tensile Strength (MPa)			Elongation (% min in 50mm or 5.65 √A)
		Over	Up to	Ultimate Min	Max	Yield Min	
1100	- H18	0.15	0.50	150			1
		0.50	0.80	150			2
		0.80	1.30	150			3
		1.30	3.25	150			4
1100	- H112	6.00	12.00	90		50	9
		12.00	50.00	85		35	13
		50.00	75.00	80		30	18
1200	- O	0.15	0.50		105	25	15
		0.50	0.80		105	25	20
		0.80	1.30		105	25	25
		1.30	6.00		105	25	30
		6.00	75.00	75	105	25	26
1200	- H12	0.40	0.50	95	130	75	3
		0.50	0.80	95	130	75	4
		0.80	1.30	95	130	75	6
		3.00	1.30	95	130	75	8
		6.00	3.00	95	130	75	9
		12.00	6.00	95	130	75	9
		50.00	12.00	95	130	75	10
1200	- H14	0.25	0.30	110	145		1
		0.30	0.50	110	145	95	2
		0.50	0.80	110	145	95	3
		0.80	1.30	110	145	95	4
		3.00	3.00	110	145	95	5
		6.00	6.00	110	145	95	6
		12.00	12.00	110	145	95	6
		25.00	25.00	110	145	95	8
1200	- H16	0.15	0.50	130	165	115	1
		0.50	0.80	130	165	115	2
		0.80	1.30	130	165	115	3
		1.30	4.00	130	165	115	4
1200	- H18	0.15	0.50	150			1
		0.50	0.80	150			2
		0.80	1.30	150			3
		1.30	3.25	150			4
1200	- H112	6.00	12.00	90		50	9
		12.00	50.00	85		35	12
		50.00	75.00	80		30	18
3003	- O	0.15	0.20	95	130		14
		0.20	0.30	95	130		18
		0.30	0.80	95	130	35	20
		0.80	1.30	95	130	35	23
		1.30	6.00	95	130	35	25
		6.00	75.00	95	130	35	21
3003	- H12	0.40	0.50	115	160	80	3
		0.50	0.80	115	160	80	4
		0.80	1.30	115	160	80	5
		1.30	3.00	115	160	80	6
		3.00	4.00	115	160	80	7
		4.00	6.00	115	160	80	8
		6.00	12.00	115	160	80	9
		12.00	50.00	115	160	80	8

# MECHANICAL PROPERTY LIMITS : SHEET & PLATE

The following typical mechanical properties are averages which take into account the variations introduced by the type of wrought product, size, shape and method of manufacture.								
ALLOY	TEMPER	Thickness (mm)		Tensile Strength (MPa)				Elongation (% min in 50mm or 5.65 √A)
		Over	Up to	Ultimate Min      Max		Yield Min      Max		
3003	- H14	0.25	0.30	135	180	115		1
		0.30	0.50	135	180	115		2
		0.50	0.80	135	180	115		3
		0.80	1.30	135	180	115		4
		1.30	3.00	135	180	115		5
		3.00	4.00	135	180	115		6
		4.00	6.00	135	180	115		7
		6.00	12.00	135	180	115		8
		12.00	25.00	135	180	115		8
3003	- H16	0.15	0.50	165	205	145		1
		0.50	0.80	165	205	145		2
		0.80	1.30	165	205	145		3
		1.30	4.00	165	205	145		4
3003	- H18	0.15	0.50	185		165		1
		0.50	0.80	185		165		2
		0.80	1.30	185		165		3
		1.30	3.25	185		165		4
3003	- H112	6.00	12.00	115		70		8
		12.00	50.00	105		40		10
		50.00	75.00	100		40		16
5005	- O	0.15	0.20	105	145			12
		0.20	0.30	105	145			14
		0.30	0.50	105	145	35		16
		0.50	0.80	105	145	35		18
		0.80	1.30	105	145	35		20
		1.30	3.00	105	145	35		21
		3.00	6.00	105	145	35		22
5005	- H12	0.40	0.50	125	165	95		2
		0.50	0.80	125	165	95		3
		0.80	1.30	125	165	95		4
		1.30	3.00	125	165	95		6
		3.00	4.00	125	165	95		7
		4.00	6.00	125	165	95		8
5005	- H14	0.25	0.80	145	185	115		1
		0.80	1.30	145	185	115		2
		1.30	3.00	145	185	115		3
		3.00	4.00	145	185	115		5
		4.00	6.00	145	185	115		6
5005	- H16	0.15	0.80	165	205	135		1
		0.80	1.30	165	205	135		2
		1.30	4.00	165	205	135		3
5005	- H18	0.15	0.80	185				1
		0.80	1.30	185				2
		1.30	3.25	185				3
5005	- H19	0.15	1.00	195				1
5005	- H32	0.40	0.50	115	160	85		3
		0.50	0.80	115	160	85		4
		0.80	1.30	115	160	85		5
		1.30	3.00	115	160	85		7
		3.00	4.00	115	160	85		8
		4.00	6.00	115	160	85		9
5005	- H34	0.25	0.30	135	180			2
		0.30	0.80	135	180	105		3
		0.80	1.30	135	180	105		4
		1.30	3.00	135	180	105		5
		3.00	4.00	135	180	105		6
		4.00	6.00	135	180	105		7

# MECHANICAL PROPERTY LIMITS : SHEET & PLATE

The following typical mechanical properties are averages which take into account the variations introduced by the type of wrought product, size, shape and method of manufacture.								
ALLOY	TEMPER	Thickness (mm)		Tensile Strength (MPa)				Elongation (% min in 50mm or 5.65 √A)
		Over	Up to	Ultimate Min	Max	Yield Min	Max	
5005	- H36			180		165		6
5005	- H38	0.15	0.30	180				1
		0.30	0.50	180				2
		0.50	0.80	180				3
		0.80	3.25	180				4
5052	- O	0.15	0.20	170	215			-
		0.20	0.30	170	215			14
		0.30	0.50	170	215	65		15
		0.50	0.80	170	215	65		16
		0.80	1.30	170	215	65		18
		1.30	3.00	170	215	65		19
		3.00	6.00	170	215	65		20
		6.00	75.00	170	215	65		16
5052	- H32	0.40	0.50	215	265	160		4
		0.50	1.30	215	265	160		5
		1.30	3.00	215	265	160		7
		3.00	6.00	215	265	160		9
		6.00	12.00	215	265	160		11
		12.00	50.00	215	265	160		10
5052	- H34	0.25	0.50	235	285	180		3
		0.50	1.30	235	285	180		4
		1.30	3.00	235	285	180		6
		3.00	6.00	235	285	180		7
		6.00	25.00	235	285	180		8
5052	- H36	0.15	0.20	255	305			2
		0.20	0.80	255	305	200		3
		0.80	4.00	255	305	200		4
5052	- H38	0.15	0.20	270				2
		0.20	0.80	270		220		3
		0.80	3.25	270		220		4
5052	- H39I	0.15	2.00	290		240		3
5052	- H112	6.00	12.00	195		110		7
		12.00	50.00	170		65		10
		50.00	75.00	170		65		14
5251	Mechanical properties are almost identical to 5052							
5454	- O	0.50	0.80	215	285	80		12
		0.80	1.30	215	285	80		14
		1.30	3.00	215	285	80		16
		3.00	75.00	215	285	80		16
5454	- H32	0.50	1.30	250	305	180		5
		1.30	6.00	250	305	180		8
		6.00	50.00	250	305	180		10
5454	- H34	0.50	1.30	270	325	200		4
		1.30	4.00	270	325	200		6
		4.00	6.00	270	325	200		7
		6.00	25.00	270	325	200		8
5454	- H112	6.00	12.00	220		125		8
		12.00	50.00	215		80		9
		50.00	75.00	215		80		13
5083	- O	1.30	40.00	275	350	125	200	14
		40.00	75.00	270	345	115	200	14
5083	- H111	6.00	40.00	290	350	170	285	12
5083	- H121	6.00	50.00	305	385	215	295	10



# MECHANICAL PROPERTY LIMITS : SHEET & PLATE

The following typical mechanical properties are averages which take into account the variations introduced by the type of wrought product, size, shape and method of manufacture.								
ALLOY	TEMPER	Thickness (mm)		Tensile Strength (MPa)				Elongation (% min in 50mm or 5.65 √A)
		Over	Up to	Ultimate Min	Max	Yield Min	Max	
5083	- H311	6.00	40.00	290	350	170	285	14
5083	- H321	5.00 40.00	40.00 75.00	305 280	385 385	215 200	295 295	10 10
5083	- H323	1.30 3.20	3.20 6.00	310 310	375 375	235 235	305 305	8 10
5083	- H343	1.30 3.20	3.20 6.00	345 345	405 405	270 270	340 340	6 8
5083	- H112	6.00 40.00	40.00 75.00	275 270		125 115		10 10
5083	- H115	20.00 50.00	50.00 70.00	310 305		255 240		7 7
5083	- H116	3.00 6.00	6.00 30.00	305 305		215 215		10 10
6061	- O	0.25 0.50 3.25 12.00	0.50 3.25 12.00 25.00		150 150 150 150		85 85 85	14 16 18 16
6061	- T4	0.25 0.50 6.00	0.50 6.00 25.00	205 205 205		115 115 115		14 16 16
6061	- T42	0.25 0.50 6.00	0.50 6.00 25.00	205 205 205		95 95 95		14 16 16
6061	- T6 & T62	0.25 0.50 12.00	0.50 12.00 25.00	290 290 290		240 240 240		8 10 7
7075	- T6 /T651			570		505		11
8011	- O	0.15 0.30 0.80 1.30	0.30 0.80 1.30 5.00	75 75 75 75	105 105 105 105			16 20 25 30
8011	- H12	0.20 0.50 0.80 1.30 3.00	0.50 0.80 1.30 3.00 6.00	100 100 100 100 100	135 135 135 135 135			3 4 6 8 9
8011	- H14	0.20 0.50 0.80 1.30 3.00	0.50 0.80 1.30 3.00 6.00	115 115 115 115 115	150 150 150 150 150			2 3 4 5 7
8011	- H16	0.20 0.50 0.80 1.30 3.00	0.50 0.80 1.30 3.00 6.00	140 140 140 140 140	170 170 170 170 170			1 2 3 4 5
8011	- H18	0.20 0.50 0.80 1.30	0.50 0.80 1.30 3.00	160 160 160 160				1 2 3 4

# TYPICAL FABRICATION CHARACTERISTICS : ALUMINIUM & ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA												
ALLOY	Nominal Composition (%)	Commercial Forms <sup>1</sup>	Typical Applications 2*	Characteristics <sup>2</sup>				Weldability			Heat Treat	
				Corrosion Resistance	Machining	Anodising <sup>3</sup>	Brazing	Cold Forming	Gas Weld	Inert Gas Weld	Resistance Spot Weld	
I199	Al 99.99 min	F	Electrical and electronic foil use.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
I080A	Al 99.80 min	S,P,T,E,B,F	Chemical and process plant and equipment.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
I070	Al 99.70 min	F,S,P	Electrical and electronic foil use.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
I050	Al 99.50 min	S,P,T,E,B,F	Chemical and process plant and equipment.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
I145	Al 99.45 min	F	Foil use.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
I150	Al 99.85 min Cu 0.12	S	Sheet metal components requiring decorative finishing.	A,A	D,C	A,A	NR	A,D	NR	NR	B,C	No
I100	Al 99.80 min Cu 0.12	F,S,P,B	Spinnings, hollowware and general sheet metal work.	A,A	D,C	B,B	A	A,C	A	A	B,A	No
I200	Al 99.00 min	F,S,P,T,W,B	Spinnings, hollowware and general sheet metal work.	A,A	D,C	B,B	A	A,C	A	A	B,A	No
I235	Al 99.35	FT	Deep Drawing, Forming	A,A	D,C	B,B	A	A,C	A	A	B,A	No
I350	Al 99.50 min	S,P,T,E,W,B	Electrical conductors.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
2011	Cu 5.5 Pb 0.5 Bi 0.5	W,B	Screw machine products not requiring decorative anodising.	D,D	A,A	D,D	D	C,D	D	D	D	Yes
2014 2014A	Si 0.8 Cu 4.4 Mn 0.8 Mg 0.6	T,E,B	Aircraft structures, forgings, heavy duty structural applications.	D,D	B,B	D,D	D	C,D	D	C	B	Yes
2024	Cu 4.5 Mn 0.6 Mg 1.5	S	Aircraft sheeting.	D,D	B,B	D,D	D	C,D	D	C	B	Yes
3003	Mn 1.2 Cu 0.12	F,S,P	Chemical equipment, sheet metal work, rigid foil containers, closures.	A,A	D,C	B,B	A	A,C	A	A	B,A	No
3203	Mn 1.2	F,S,P,T,W	Sheet metal work, high-strength foil, deep drawing, chemical equipment.	A,A	D,C	B,B	A	A,C	A	A	B,A	No
3004	Mn 1.2 Mg 1.0	S,P	Sheet metal work, car bodies, seam welded tubing, roofing sheet.	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No
3004A	Mn 1.15 Mg 1.15	S,P	Sheet metal work, seam welded tube, roofing sheet, can body stock.	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No

## TYPICAL FABRICATION CHARACTERISTICS : ALUMINIUM &amp; ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA												
ALLOY	Nominal Composition (%)	Com- mercial Forms <sup>1</sup>	Typical Applications 2*	Characteristics <sup>2</sup>				Weldability				Heat Treat
				Corrosion Resis- tance	Machining	Anodising <sup>3</sup>	Brazing	Cold Forming	Gas Weld	Inert Gas Weld	Resis- tance Spot Weld	
3005	Mn 1.2 Mg 0.35	FS	High-strength foil.	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No
3105	Mn 0.5 Mg 0.5	FS	Painted sheet products.	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No
5005	Mg 0.8	FS,P	Appliances and utensils, general sheet metal work and high-strength foil.	A,A	D,C	B,B	B	A,C	A	A	B,A	No
5050A	Mg 1.4	FS,T,P	Refrigerator trim, painted sheet.	A,A	D,C	B,B	B	A,C	A	A	B,A	No
5052	Mg 2.5 Cr 0.25	S,P	Sheet metal work, appliances, marine applications.	A,A	C,B	C,C	C	A,C	A	A	B,A	No
5251	Mg 2.0	S,P,T,F,W	Sheet metal work, appliances, small boats, hydraulic tube, high-strength foil.	A,A	C,B	C,C	C	A,C	A	A	B,A	No
5252	Mg 2.5	S	High strength automobile trim.	A,A	C,B	A,A	NR	A,C	NR	NR	B,C	No
5154A	Mg 3.5 Cr 0.25	S,E,B	Welded structures, storage tanks, pressure vessels, marine applications.	A,A	C,B	C,C	D	A,C	C	A	B,A	No
5182	Mn 0.3 Mg 4.5	S,P	Unfired pressure vessels, marine cryogenic, drilling rigs, can end stock. Should not be used at temperatures above 65°C.	A,C	C,B	C,C	D	A,C	C	A	B,A	No
5454	Mg 2.7 Mn 0.8 Cr 0.1	S,P	Welded structures, pressure vessels to use at elevated temperatures.	A,A	C,B	C,C	D	A,C	C	A	B,A	No
5056	Mg 5.2 Mn 0.1 Mg 0.1	W,S	Aircraft structures, forgings, heavy duty structural applications.	A,C	B,B	D,D	D	C,D	D	C	B	Yes
5457	Mg 1.0 Mn 0.2 Cu 0.1	S	Automobile trim.	A,A	C,C	A,A	NR	A,C	NR	NR	B,C	No
5557	Mg 0.6 Mn 0.2 Cu 0.1	S	Automobile trim.	A,A	C,C	A,A	NR	A,C	NR	NR	B,C	No

# TYPICAL FABRICATION CHARACTERISTICS : ALUMINIUM & ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA												
ALLOY	Nominal Composition (%)	Commercial Forms <sup>1</sup>	Typical Applications 2*	Characteristics <sup>2</sup>				Weldability			Heat Treat	
				Corrosion Resistance	Machining	Anodising <sup>3</sup>	Brazing	Cold Forming	Gas Weld	Inert Gas Weld		Resistance Spot Weld
5083	Mg 4.5 Mn 0.7 Cr 0.15	S,P,T,E,B	Unfired welded pressure vessels, marine, aircraft, cryogenics, TV towers, drilling rigs, transportation equipment, missile components. Should not be used at temps above 65°C.	A,C	C,B	C,C	D	A,C	C	A	B,A	No
5086	Mg 4.0 Mn 0.5 Cr 0.15	S,P	As for 5083.	A,C	C,B	C,C	D	A,C	C	A	B,A	No
SF 6060	Si 0.45 Mg 0.5	E,T,W,B	Architectural extrusions, general purpose extrusions.	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
6060	Si 0.45 Mg 0.5	E,T,W,B	Architectural extrusions, general purpose extrusions.	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
6063	Mg 0.7 Si 0.4	T,E,W,B	Furniture, architectural extrusions, general purpose extrusions.	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
6463A	Mg 0.7 Si 0.4	E,B	Trim extrusions requiring decorative finishing.	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
6101	Mg 0.6 Si 0.5	T,E,B,P	Electrical conductors.	A,B	B,C	A,A	A	A,C	A	A	B,A	Yes
6201A	Mg 0.7 Si 0.6	W,B	Electrical conductors.	A,B	B,C	A,A	A	A,C	A	A	B,A	Yes
6106	Si 0.45 Mn 0.12 Mg 0.6	T,E,W,B	General purpose extrusions, light structural applications.	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
6103	Si 0.65 Cu 0.25 Mg 1.1	T,E,W,B	Structural applications, transport, marine.	B,B	B,C	B,B	A	A,C	A	A	B,A	Yes
6261	Si 0.55 Cu 0.25 Mn 0.25 Mg 0.85	T,E,W,B	Structural applications, transport, marine.	B,B	B,C	B,B	A	A,C	A	A	B,A	Yes
6005A	Si 0.7 Mg 0.55	T,E,W,B	Structural applications, transport, marine.	A,A	B,C	B,B	A	A,C	A	A	B,A	Yes
6351	Mg 0.6 Si 1.0 Mn 0.6	T,E,B,P	Heavy-duty structures where corrosion resistance is needed. Transport applications and marine.	A,B	B,C	B,B	A	A,C	A	A	B,A	Yes

## TYPICAL FABRICATION CHARACTERISTICS : ALUMINIUM &amp; ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA										
ALLOY	Nominal Composition (%)	Commercial Forms <sup>1</sup>	Typical Applications 2*	Characteristics <sup>2</sup>				Weldability		
				Corrosion Resis- tance	Machining	Anodising <sup>3</sup>	Brazing	Cold Forming	Gas Weld	Inert Gas Weld Spot Weld
6061	Mg 1.0 Si 0.6 Cu 0.25 Cr 0.2	S,P,T,E, WB	Structural applications where corrosion resistance is needed. Transport, marine, aircraft landing mats.	B,B	C,B	B,B	A	A,C	A	B,A
6262	Mg 1.0 Si 0.6 Cu 0.25 Cr 0.1 Bi 0.6 Pb 0.6	WB	Screw machine products suitable for decorative anodising.	B,B	A,A	B,B	A	A,C	A	B,A
7005	Zn 4.5 Mg 1.4	E	High-strength welded structures. For specific corrosive environments, contact material supplier.	C,D	B,B	B,B	NR	NR	NR	C,C
8006	Fe 1.5 Mn 0.5	S,F	Heat exchanger fins, foil, rectangular pressings.	A,A	D,C	B,B	A	A	A	B,A
8011	Fe 0.8 Si 0.7	S	Bottle closures, general sheet, fin stock, foil.	A,A	D,C	C,C	A	A,C	A	B,A

<sup>1</sup> F = Foil, S = Sheet, P = Plate, T = Tube, E = Extrusion, B = Bar or Rod, W = Wire. Inclusion of a form/alloy combination in this table does not necessarily indicate a ready availability.

<sup>2</sup>\* Relative ratings in decreasing order of merit = A, B, C, D. NR = Not recommended. These ratings are relative ONLY to the TYPICAL APPLICATIONS identified above.... And not to be compared with other alloys where applications differ.

For example: 1200 alloy may show a rating of AA for the application of spinning while, 5083 shows a rating of AC for marine applications. However on comparison under the same application 5083 alloy is generally more corrosive resistant than 1200 alloy.

Where Applicable, ratings for both annealed and hardest temper are provided. Inex supply 5083 in either H321 or H116 temper. This has been specifically fabricated to have acceptable resistance to corrosion, stress, cracking and exfoliation attack.

<sup>3</sup> Rating indicates suitability of alloy for decorative quality anodising; all aluminium alloys can be anodised for increased corrosion and wear resistance.

PLEASE NOTE ALL VALUES INDICATED IN THE ALUMINIUM ALLOY DATA ARE CONSIDERED TO BE A GENERAL GUIDE ONLY. SUITABILITY FOR A PARTICULAR END USE IS IMPLIED AND DATA SHOULD NOT BE USED FOR DESIGN. IF YOU REQUIRE DETAILS FOR SPECIFIC CONDITIONS NOT SUPPLIED IN THESE TABLES PLEASE CONTACT INEX METALS LIMITED.



## USEFUL FORMULAE &amp; MASS CONVERSION FACTORS

USEFUL FORMULAE	
Useful formulae for the calculation of coiled sheet density and the calculation of mass per unit area or per unit length, are given below. The formulae assume an alloy density of $2.71 \times 10^3 \text{ kg/m}^3$ (Mass Conversion Factor - 1,000). The calculated result should be multiplied by the appropriate Mass Conversion Factor (see Table below) when the formulae are applied to alloys of other density.	
Coiled Sheet	Sections
Coil density (kg per mm of width)	Mass per metre (kg)
$= 2.13 (D + d) (D - d) \div 1,000,000$	$= 2.71 A \div 1,000$
Sheet	Tube
Mass per square metre (kg)	Mass per metre (kg)
$= 2.71 t$	$= 8.51 t (D - t) \div 1,000$
Circles	Round Bar and Wire
Mass per square metre (kg)	Mass per metre (kg)
$= 2.13 D \times D \div 1,000,000$	$= 2.13 D \times D \div 1,000$
Where	
D = outside diameter (mm) d = inside diameter (mm) t = thickness (mm) A = cross-sectional area (mm <sup>2</sup> )	

## MASS COVERSION FACTOR

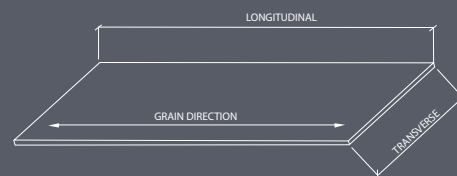
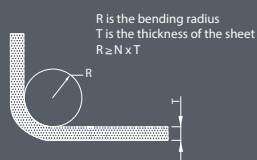
ALLOY	DENSITY (kg/m <sup>3</sup> x 10 <sup>3</sup> )	MASS CONVERSION FACTOR
1050 / 1150	2.70	0.996
1350	2.70	0.996
1100 / 1200	2.71	1.000
2024	2.77	1.022
3003 / 3005	2.73	1.007
3203	2.73	1.007
3004	2.72	1.004
5005	2.70	0.996
5050A	2.69	0.993
5052 / 5252	2.68	0.989
5251	2.69	0.993
5154A	2.66	0.982
5454	2.68	0.989
5457	2.70	0.996
5083 / 5086	2.66	0.982
6060 / 6061	2.70	0.996
8011	2.71	1.000

**CONVERSION MADE EASY - this example, the mass conversion is 2.7, Alloy 5005.**

Sheet / Plate Calculations - Length (in metres) x Width (in metres) x Thickness (in mm) x Mass Conversion.

**Typical Example - 2400 x 1200 x 3mm 5005****2.4 length x 1.2 Width x 3mm Thickness x 2.7 Mass Conversion = 23.32kgs.**

## BENDING DATA - SHEET &amp; PLATE



Radii below are for bending transverse to the rolling direction, larger radii are recommended for longitudinal bending.									
ALLOY	TEMPER	RADII FOR VARIOUS THICKNESSES EXPRESSED IN TERMS OF THICKNESS $t$							
		$t=0.4\text{mm}$	$t=0.8\text{mm}$	$t=1.6\text{mm}$	$t=3.0\text{mm}$	$t=4.0\text{mm}$	$t=6.0\text{mm}$	$t=10$	$t=12$
1080A	- O	0.0 $t$	0.0 $t$	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	0.5 $t$	1.0 $t$
1050	- H12	0.0 $t$	0.0 $t$	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.5 $t$
1350	- H14	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	0.5 $t$	1.0 $t$	1.5 $t$	2.0 $t$
1150	- H16	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$				
	- H18	0.5 $t$	1.0 $t$	1.5 $t$	2.0 $t$				
1100	- O	0.0 $t$	0.0 $t$	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.5 $t$
1200	- H12	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$	1.5 $t$	2.0 $t$
	- H14	0.0 $t$	0.0 $t$	0.0 $t$	1.0 $t$	1.0 $t$	1.5 $t$	2.0 $t$	2.5 $t$
	- H16	0.0 $t$	0.5 $t$	1.0 $t$	1.5 $t$				
	- H18	1.0 $t$	1.5 $t$	2.0 $t$	3.0 $t$				
2024 <sup>2</sup>	- O	0.0 $t$	1.0 $t$	1.0 $t$	1.0 $t$	1.0 $t$	1.0 $t$	2.5 $t$	4.0 $t$
	- T42	2.5 $t$	3.0 $t$	4.0 $t$	5.0 $t$	5.0 $t$	6.0 $t$	7.0 $t$	8.0 $t$
3003	- O	0.0 $t$	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$	1.5 $t$
3203	- H12/H32	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$	1.5 $t$	2.0 $t$
3005	- H14/H34	0.0 $t$	0.0 $t$	0.0 $t$	1.0 $t$	1.0 $t$	1.5 $t$	2.0 $t$	2.5 $t$
5005	- H16/H36	0.5 $t$	1.0 $t$	1.0 $t$	1.5 $t$				
	- H18/H38	1.0 $t$	1.5 $t$	2.0 $t$	3.0 $t$				
3004	- O	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$		
	- H32	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$	1.5 $t$		
	- H34	0.0 $t$	1.0 $t$	1.0 $t$	1.5 $t$	1.5 $t$	2.5 $t$		
	- H36	1.0 $t$	1.0 $t$	1.5 $t$	2.5 $t$				
	- H38	1.0 $t$	1.5 $t$	2.5 $t$	3.0 $t$				
5050	- O	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$		
	- H32	0.0 $t$	0.0 $t$	0.0 $t$	1.0 $t$	1.0 $t$	1.5 $t$		
	- H34	0.0 $t$	0.0 $t$	1.0 $t$	1.5 $t$	1.5 $t$	2.0 $t$		
	- H36	1.0 $t$	1.0 $t$	1.5 $t$	2.0 $t$				
	- H38	1.0 $t$	1.5 $t$	2.5 $t$	3.0 $t$				
5052	- O	0.0 $t$	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$	1.5 $t$	1.5 $t$
5251	- H32	0.0 $t$	0.0 $t$	1.0 $t$	1.5 $t$	1.5 $t$	1.5 $t$	1.5 $t$	2.0 $t$
	- H34	0.0 $t$	1.0 $t$	1.5 $t$	2.0 $t$	2.0 $t$	2.5 $t$	2.5 $t$	3.0 $t$
	- H36	1.0 $t$	1.0 $t$	1.5 $t$	2.5 $t$				
	- H38	1.0 $t$	1.5 $t$	2.5 $t$	3.0 $t$				
5154A	- O	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$	1.0 $t$	1.5 $t$	1.5 $t$
5454	- H32	0.0 $t$	0.5 $t$	1.0 $t$	1.5 $t$	1.5 $t$	2.0 $t$	2.5 $t$	3.5 $t$
	- H34	0.5 $t$	1.0 $t$	1.5 $t$	2.0 $t$	2.5 $t$	3.0 $t$	3.5 $t$	4.0 $t$
	- H112						2.0 $t$	2.5 $t$	3.0 $t$
5083	- O	0.5 $t$	1.0 $t$	1.0 $t$	1.5 $t$	1.5 $t$	2.0 $t$	2.5 $t$	2.5 $t$
	- H321		2.0 $t$	2.0 $t$	2.5 $t$	2.5 $t$	4.0 $t$	4.0 $t$	4.0 $t$
	- H116		2.0 $t$	2.0 $t$	2.5 $t$	2.5 $t$	4.0 $t$	4.0 $t$	4.0 $t$
5086	- O	0.0 $t$	0.0 $t$	0.5 $t$	1.0 $t$	1.0 $t$	1.0 $t$	1.5 $t$	1.5 $t$
	- H32	0.0 $t$	1.5 $t$	1.5 $t$	2.0 $t$	2.0 $t$	2.0 $t$	2.5 $t$	3.0 $t$
	- H34	0.5 $t$	1.0 $t$	1.5 $t$	2.0 $t$	2.5 $t$	3.0 $t$	3.5 $t$	4.0 $t$
	- H36				3.0 $t$	3.5 $t$			
	- H112					1.5 $t$	2.0 $t$	2.0 $t$	2.5 $t$
6061 <sup>2</sup>	- O	0.0 $t$	0.0 $t$	0.0 $t$	1.0 $t$	1.0 $t$	1.0 $t$	1.5 $t$	2.0 $t$
	- T4 & T42	0.0 $t$	0.5 $t$	1.0 $t$	1.5 $t$	2.5 $t$	3.0 $t$	3.5 $t$	4.0 $t$
	- T6 & T62	1.0 $t$	1.0 $t$	1.5 $t$	2.5 $t$	3.0 $t$	4.0 $t$	4.5 $t$	5.0 $t$

<sup>1</sup> The radii listed are the minimum recommended for bending sheets and plates without fracturing in a standard press brake with air bend dies. Other types of bending operations may require larger radii or permit smaller radii. The minimum permissible radii will also vary with the design and condition of tooling.

<sup>2</sup> Heat-treatable alloys can be formed over appreciably smaller radii immediately after solution heat treatment.

<sup>3</sup> The H112 temper (applicable to non-heat-treatable alloys) is supplied in the as-fabricated condition without special property control, but usually can be formed over radii applicable to the H14 (or H34) temper or smaller.

GAUGE	THICKNESS MM
3	6.073
4	5.695
5	5.314
6	4.935
7	4.554
8	4.176
9	3.797
10	3.416
11	3.038
12	2.657
13	2.278
14	1.897
15	1.709
16	1.519
17	1.367
18	1.214
19	1.062
20	0.912
21	0.836
22	0.759

INCHES	MM
1/8	3.175
1/4	6.350
3/8	9.525
1/2	12.700
5/8	15.875
3/4	19.050
7/8	22.225
1	25.400
1 1/8	28.575
1 1/4	31.750
1 3/8	34.925
1 1/2	38.100
1 5/8	41.275
1 3/4	44.450
1 7/8	47.625
2	50.800
2 1/8	53.975
2 1/4	57.150
2 3/8	60.325
2 1/2	63.500
2 5/8	66.675
2 3/4	69.850
2 7/8	73.025
3	76.200

### POUNDS TO KILOGRAM CONVERSION

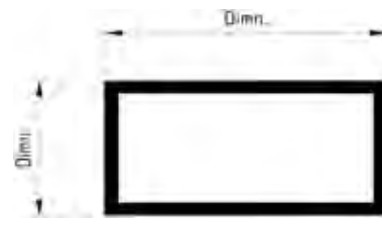
1 pound (lb) is equal to 0.45359237 kilograms (kg).

## EXTRUSION TOLERANCE GUIDELINES

## TOLERANCES ALLOWED FOR ROUND TUBES, SQUARE AND RECTANGULAR HOLLOWS

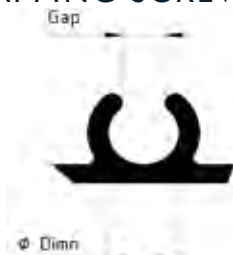


SPECIFIED DIMENSIONS	
Dimn.	Tol.
UP TO 25.0	±0.50
25.1 TO 50.0	±0.70
50.1 TO 100.0	±0.80
100.1 TO 125.0	±1.30
125.1 TO 150.0	±1.30
150.1 TO 180.0	±1.90
180.1 TO 200.0	±1.90
200.1 TO 220.0	±2.60
220.1 TO 250.0	±2.60



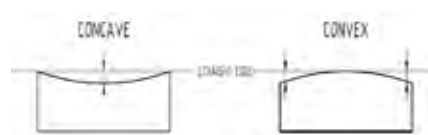
SPECIFIED DIMENSIONS	
Dimn.	Tol.
UP TO 25.0	±0.50
25.1 TO 50.0	±0.70
50.1 TO 100.0	±0.90
100.1 TO 125.0	±1.20
125.1 TO 150.0	±1.40
150.1 TO 180.0	±1.70
180.1 TO 200.0	±1.90
200.1 TO 220.0	±2.20
220.1 TO 250.0	±2.40

## SELF TAPPING SCREW SLOTS



SCREW GAUGE	Ø DIMN	GAP
4	2.80	1.90
6	3.05 or up to 3.2	2.05
8	3.7 or 3.8	2.2 or 2.3
10	4.30	2.80
12	4.90	3.00
14	5.60	3.30

## CONCAVITY / CONVEXITY



Solid	0.004/mm
Hollow	0.006/mm

Note: These standards tolerances are published in Australian Standards AS/NZS1866 and AS/NZS1734.

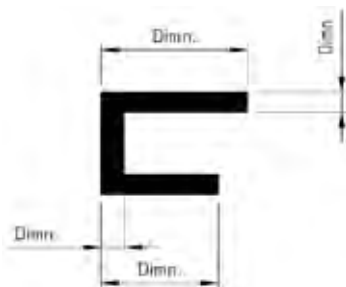
# EXTRUSION TOLERANCE GUIDELINES

## TOLERANCES ALLOWED FOR OVERALL WIDTH OF SECTIONS



SPECIFIED DIMENSIONS						
Gap	Dim.A 5.0 TO 15.0	Dim.A 15.1 TO 30.0	Dim.A 30.1 TO 60.0	Dim.A 60.1 TO 100.0	Dim.A 100.1 TO 150.0	Dim.A 150.1 TO 200.0
UP TO 3.0	±0.25	0.30	-	-	-	-
3.1 TO 6.0	±0.30	0.35	0.40	-	-	-
6.1 TO 12.0	±0.35	0.40	0.45	0.50	-	-
12.1 TO 20.0	±0.40	0.45	0.50	0.55	-	-
20.1 TO 25.0	±0.45	0.50	0.55	0.70	0.80	-
25.1 TO 40.0	±0.55	0.60	0.70	0.80	0.90	-
40.1 TO 50.0	±0.60	0.70	0.80	0.90	1.10	1.30
50.1 TO 100.0	±0.90	1.00	1.20	1.50	1.80	2.00
100.1 TO 150.0	±1.10	1.30	1.70	2.00	2.40	2.80
150.1 TO 200.0	±1.40	1.60	2.10	2.50	3.00	3.50
200.1 TO 250.0	±1.70	1.90	2.60	3.00	3.70	4.30

## TOLERANCES ALLOWED FOR OVERALL WIDTH OF SECTIONS



SPECIFIED DIMENSIONS	
Dimn.	Tol.
UP TO 3.0	±0.15
3.1 TO 12.0	±0.20
12.1 TO 25.0	±0.25
25.1 TO 40.0	±0.30
40.1 TO 50.0	±0.40
50.1 TO 100.0	±0.60
100.1 TO 150.0	±0.90
150.1 TO 200.0	±1.10
200.1 TO 250.0	±1.40

Note: These standards tolerances are published in Australian Standards AS/NZS1866 and AS/NZS1734.

All dimensions are in millimetres, tighter tolerances may be available on request.

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