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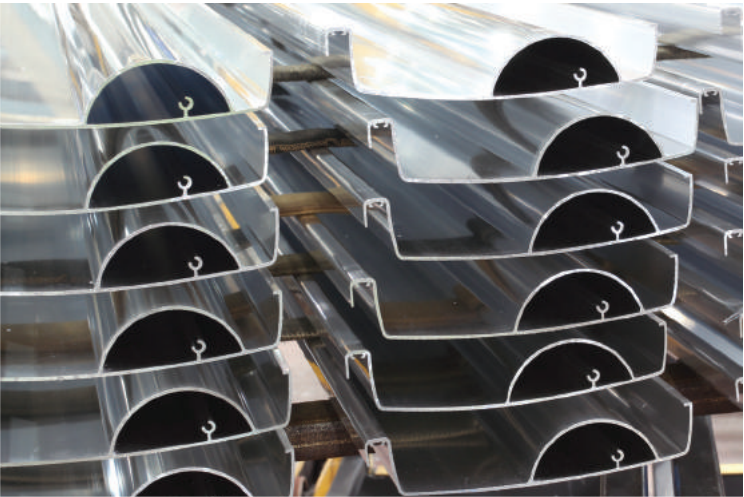
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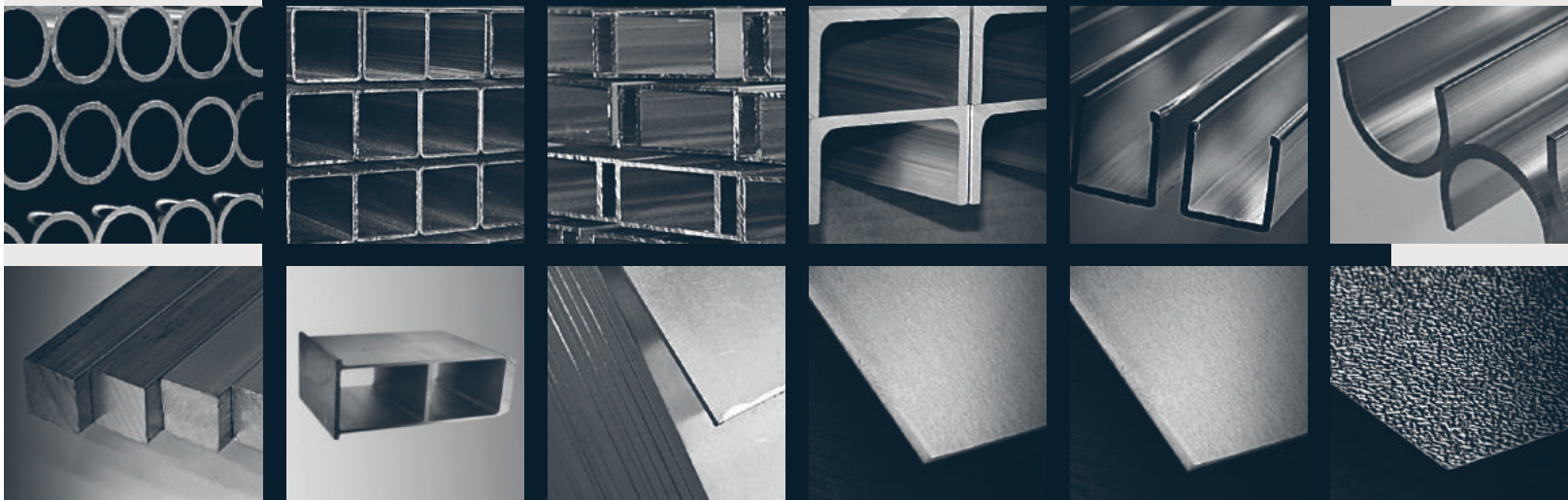
INEX METALS ALUMINIUM CATALOGUE

ALUMINIUM CATALOGUE



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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 Foil, 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 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.

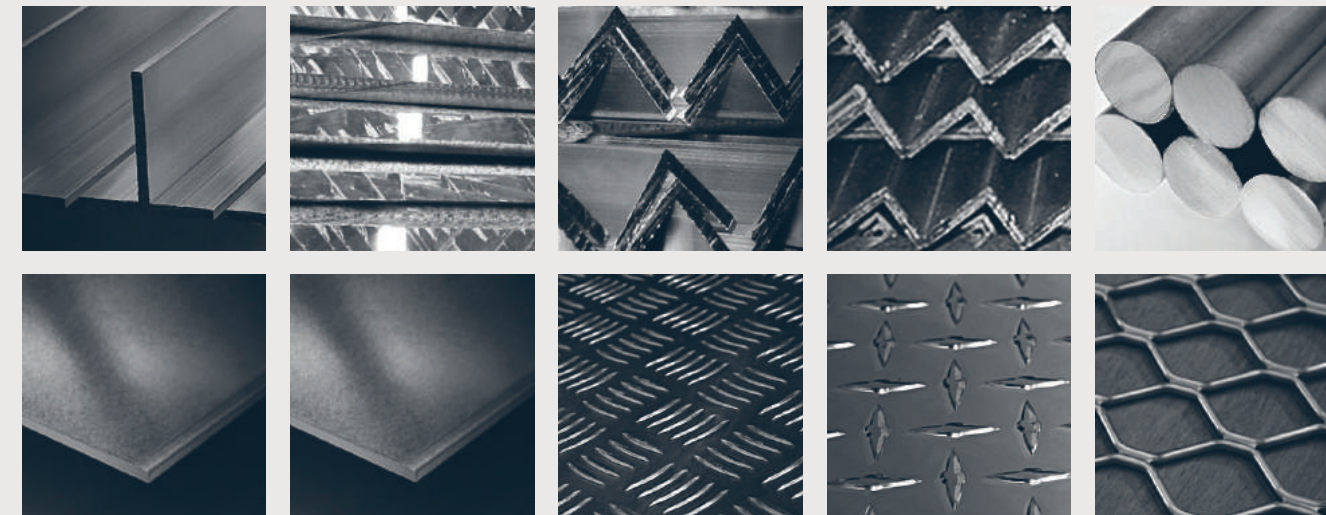
SUSTAINABILITY

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.

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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		PLATE
		TREAD
		GRILL ACM
		FINISH
		DEFINITION
		TEMPER
		MECHANICAL PROPERTIES FAB
		DATA
		CONVERSIONS TOLERANCES

CHARACTERISTICS : ALUMINIUM & 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 2.7×103 kilograms per cubic metre at 20°C as compared with 7.9×103 for iron and 8.9×103 for copper.

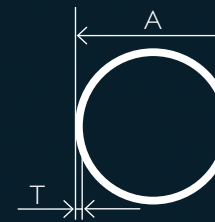
HANDLING, STORING & MAINTENANCE

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

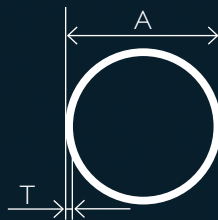
SECTION	EX STOCK	SIZE mm		KILO / METRE	PERIMETER mm
		A	T		
90001	✓	9.53	1.63	0.110	30.0
40678	*	12.00	1.20	0.110	37.7
30025	*	12.70	1.20	0.118	40.0
30906	✓	12.70	1.42	0.136	40.0
31120	✓	15.88	2.64	0.298	50.0
30068	✓	15.90	1.40	0.173	50.0
30536	*	16.00	1.60	0.196	50.0
30041	✓	19.00	1.20	0.182	59.6
60056	✓	19.00	2.00	0.289	59.6
31059	*	19.05	1.42	0.213	59.8
30666	*	20.00	1.20	0.192	63.0
30907	✓	22.23	1.42	0.251	70.0
60073	*	25.00	1.20	0.243	78.5
30324	✓	25.00	2.00	0.392	79.0
30053	✓	25.00	3.00	0.562	79.0
31084	*	25.00	4.50	0.785	79.0
30014	✓	25.40	1.42	0.290	80.0
30015	*	25.40	1.60	0.324	80.0
30743	*	25.40	2.95	0.564	80.0
30479	✓	28.58	1.42	0.328	90.0
30261	✓	30.00	1.40	0.341	94.0
10665	*	30.00	3.00	0.690	94.0
	*	31.00	5.00	1.107	97.0
30028	✓	31.80	1.40	0.362	99.0
30237	✓	32.00	3.00	0.741	100.0
60086	*	33.00	4.20	1.030	103.7
90011	✓	34.93	1.42	0.405	110.0
30070	*	38.00	1.40	0.436	119.0
30226	✓	38.00	3.00	0.894	119.0
10167	✓	38.10	1.42	0.443	120.0
60189	✓	40.00	3.00	0.945	126.0
90012	*	40.00	4.00	1.22	126.0
40199	*	41.70	2.80	0.927	130.0

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		
60049	✓	44.45	3.00	1.059	139.5
60206	*	48.00	2.50	0.968	150.8
30656	✓ #	48.00	3.00	1.150	150.8
30657	*	48.00	4.00	1.499	150.8
31106	✓	48.40	4.45	1.665	150.8
90008	✓ #	48.41	4.47	1.666	152.1
30908	✓	50.00	1.60	0.659	157.0
30030	✓	50.00	2.00	0.817	157.0
30238	✓	50.00	3.00	1.201	157.0
60042	✓	50.00	6.50	2.407	157.0
90089	*	60.00	2.00	0.986	188.4
30909	✓	63.50	3.00	1.545	200.0
60030	*	63.50	5.00	2.49	200.0
30628	*	63.50	10.30	4.665	200.0
90013	*	63.53	1.63	0.859	200.0
60194	✓	65.00	3.00	1.58	204.0
30658	✓	65.00	5.00	2.554	204.0
30745	✓	65.00	6.00	3.014	239.0
60015	✓	75.00	3.00	1.839	236.0
30746	*	76.00	6.35	3.776	239.0
90065	✓	76.20	2.03	1.277	239.4
60000	*	76.20	3.25	2.019	239.4
30764	*	78.50	2.00	1.302	246.0
30763	*	79.00	2.00	1.311	248.0
30796	*	79.60	2.00	1.321	250.1
30477	✓	80.00	2.00	1.328	251.0
60023	✓	88.90	3.30	2.405	279.0
90073	*	90.00	10.00	6.800	282.6
60004	*	96.50	3.00	2.388	303.0
60016	✓	100.00	3.00	2.477	315.0
30802	✓	100.00	6.00	4.802	315.0
30478	*	101.00	2.50	2.096	317.0
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	393.0
30570	*	127.00	1.60	1.702	399.0
90171	✓	150.00	3.50	4.349	471.4

A = Outside Diameter T = Thickness

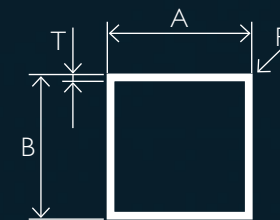
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ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	SIZE mm			RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	R		
60055	*	12.0	12.0	1.20	0.20	0.14	48.0
60029	✓	12.7	12.7	1.40		0.172	50.5
30897	✓	19.0	19.0	1.50		0.285	76.0
60171	✓	20.0	20.0	3.00	0.30	0.530	74.8
60032	✓	25.0	25.0	1.40	1.40	0.354	100.0
30019	*	25.0	25.0	1.60	0.25	0.406	100.0
30054	✓	25.0	25.0	1.80	1.60	0.447	98.0
30055	✓	25.0	25.0	3.00	0.25	0.715	100.0
60102	*	25.0	25.0	4.50	2.00	0.991	96.6
60183	✓	25.0	25.0	5.00	1.50	1.079	97.0
60095	*	30.0	30.0	1.60	0.30	0.492	119.7
60142	*	30.0	30.0	2.00	0.20	0.607	119.7
60128	*	30.0	30.0	3.00	2.50	0.863	119.7
30898	✓	32.0	32.0	3.00	0.20	0.943	127.0
60143	*	32.2	32.2	2.00	0.20	0.655	128.5
30681	✓	33.9	33.9	1.45	2.50	0.498	131.0
60201	✓	35.0	35.0	2.00	0.30	0.715	139.5
60033	*	38.0	38.0	2.00	1.00	0.778	152.0
60069	*	40.0	40.0	1.60	3.00 / 1.40 (I)	0.649	154.8
60076	*	40.0	40.0	1.60	0.50	0.666	157.0
30613	✓	40.0	40.0	2.00	1.50	0.824	157.0
60116	*	40.0	40.0	2.00	3.00 / 0.50 (I)	0.803	154.8
60119	*	40.0	40.0	3.00	0.20	1.203	154.8
30229	✓	40.0	40.0	3.00	0.50	1.203	160.0
30227	✓	40.0	40.0	3.00	3.00	1.185	155.0
30750	✓	40.0	40.0	5.00	2.50	1.884	156.0
30615	*	45.0	45.0	1.80	0.30	0.843	179.0
60117	*	50.0	50.0	1.60	0.40	0.839	199.3
30614	✓	50.0	50.0	1.60	1.50	0.840	197.0
30682	✓	50.0	50.0	2.00	5.00 / 3.00 (I)	1.003	199.3
30228	✓ #	50.0	50.0	3.00	0.20	1.528	200.0
60035	✓ #	50.0	50.0	3.00	2.50	1.514	199.3
60084	✓	50.0	50.0	5.00	4.00	2.401	193.0
60187	✓	50.0	50.0	6.00		2.860	200.0
10165	*	50.8	50.8	1.63	3.20	0.851	198.0
60094	*	50.8	50.8	1.83	6.30 / 4.47 (I)	0.925	192.4
60118	*	50.8	50.8	3.00	6.35 / 3.35 (I)	1.488	192.3

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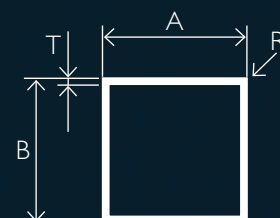
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ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	A	B	T	R	KILO / METRE	PERIMETER mm
90050	✓	57.0	57.0	3.00	6.00	1.672	218.0
30694	*	60.0	60.0	1.40	0.20	0.889	239.0
90351	*	65.0	65.0	2.0	3.00	1.347	497.0
60070	✓#	65.0	65.0	2.50	2.50	1.679	260.0
30899	✓#	75.0	75.0	3.00	0.25	2.341	300.0
30751	✓	75.0	75.0	4.50	0.80	3.438	299.0
60174	*	75.00	75.00	6.00	0.30	4.487	300.0
40930	*	80.0	80.0	2.00	0.30	1.691	313.0
60111	*	90.0	90.0	6.00	0.50	5.463	359.1
30804	✓	100.0	100.0	3.00	0.20	3.154	400.0
90134	✓	150.0	150.0	3.00	3.00	4.765	600.0

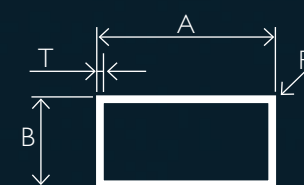
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SECTION	EX STOCK	A	B	T	R	KILO / METRE	PERIMETER mm
31158	✓	30.0	8.0	1.5	0.25	0.284	75.0
30071	*	30.0	12.0	2.0	0.25	0.412	84.0
60123	*	33.0	17.0	3.0	0.3	0.715	99.5
60124	*	33.0	25.0	3.0	0.3	0.845	115.5
60071	*	38.0	25.0	1.5		0.472	100.0
60010	✓	38.0	25.0	2.0		0.624	121.0
60186	*	40.0	14.0	1.25	2.00	0.341	104.0
40922	*	40.0	15.0	1.5	0.20	0.423	110.0
30901	✓	40.0	20.0	3.0	0.25	0.878	120.0
60034	✓	40.0	20.0	3.0	3.0	0.857	118.0
60134	*	40.0	25.0	2.0	1.5	0.656	127.4
60020	*	50.0	25.0	1.6	0.30	0.622	149.5
10164	✓#	50.0	25.0	2.0		0.770	150.0
30056	✓	50.0	25.0	3.0	0.25	1.122	150.0
60038	✓#	50.0	25.0	3.0	3.0	1.101	144.8
60146	✓	50.0	38.0	2.0	3.0	0.892	170.8
60159	*	50.0	40.0	2.0	0.2	0.932	180.0
30902	✓	50.0	40.0	3.0	0.25	1.366	180.0
30693	✓	60.0	30.0	1.4	0.20	0.662	180.0
60090	✓#	60.0	40.0	3.0	0.2	1.528	199.7
30903	✓	65.0	50.0	3.0	0.25	1.772	230.0
30904	✓	70.0	40.0	3.0	0.25	1.691	220.0
30752	✓	75.0	25.0	2.2	0.50	1.139	199.0
30947	✓#	75.0	40.0	2.0	0.25	1.203	283.30
60039	✓	75.0	40.0	5.0	6.00	2.764	230.0
60047	✓	75.0	40.0	6.0	0.30	3.349	230.0
30881	✓#	75.0	50.0	3.0	0.30	1.935	250.0
90350	*	75.0	50.0	5.0	6.0	3.035	240.0
60024	*	80.0	40.0	2.5	1.00	1.556	228.0
60135	*	80.0	40.0	3.0	0.2	1.853	239.7
60036	✓	80.0	50.0	3.0	5.00	1.967	251.0
90343	*	80.0	70.0	6.0	6.0	4.413	289.7
30095	✓	100.0	25.0	2.0	1.00	1.309	248.0
30905	✓	100.0	25.0	2.5	0.25	1.626	250.0
31136	✓	100.0	45.0	3.0	0.30	2.260	298.0
10166	✓	100.0	50.0	2.0		1.583	300.0

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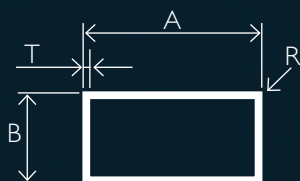
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ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	A	SIZE mm	T	RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	I / E		
30231	✓	100.0	50.0	3.0		2.341	300.0
60037	✓#	100.0	50.0	3.0	4.0 / 1.0 (I)	2.307	293.1
90080	✓#	100.0	50.0	4.0		3.079	300.0
90344	*	100.0	50.0	5.0	6.0	3.713	289.7
30230	✓	100.0	50.0	6.0	1.50	4.483	297.0
60178	✓#	125.0	25.0	3.50	0.30	2.712	300.0
90078	*	125.0	40.0	3.0		2.585	330.0
60163	*	125.0	50.0	1.5	0.50	1.398	350.0
31148	*	125.0	50.0	1.9	0.25	2.034	349.0
90181	✓#	125.0	65.0	5.0	0.2	4.820	380.0
90345	*	125.0	90.0	6.0	6.0	6.527	419.7
60027	*	140.0	50.0	6.0	0.50	5.788	380.0
30662	✓#	150.0	50.0	3.0		3.154	400.0
90133	*	150.0	50.0	5.0	5.0	4.975	382.0
60164	*	150.0	50.0	6.0	3.00	6.093	394.8
60096	✓#	150.0	100.0	3.0	10.0 / 7.0 (I)	3.849	482.8
60097	✓#	150.0	100.0	5.0	10.0	6.400	483.0
60126	*	180.0	90.0	5.0	1.0	7.044	540.0
31139	✓#	200.0	50.0	3.0		3.960	500.0
90041	✓#	250.0	50.0	3.0		4.780	599.0
90137	✓#	300.0	50.0	3.5		6.507	700.0

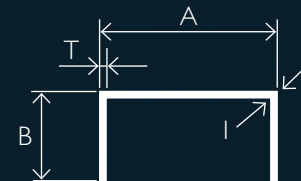
A = Width B = Height T = Thickness R = External Radii

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

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ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	A	SIZE mm	T	RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	I / R		
30910	✓	9.5	9.5	1.6	0.25	0.109	57.0
60232	✓	10.3	15.0	1.5	0.3	0.151	76.8
30911	✓	12.7	12.7	2.4	0.25	0.216	76.0
60103	✓	17.2	12.1	3.1	0.25	0.295	76.0
60088	*	17.5	25.0	2.0	0.20	0.361	129.8
90127	✓	20.0	20.0	3.0		0.437	114.0
30912	✓	25.0	25.0	1.6	0.25	0.311	146.0
30376	✓	25.0	25.0	3.0		0.561	144.0
30242	✓	25.0	50.0	2.0	0.30	0.656	245.0
30913	✓	25.0	50.0	3.0	0.25	0.967	245.0
30914	✓	30.0	25.0	3.0	0.25	0.601	160.0
30243	✓	30.0	50.0	2.0	0.30	0.683	255.0
60156	*	32.0	12.0	3.0	0.20	0.406	105.5
60017	*	32.0	25.0	3.0	0.30	0.618	157.2
60141	*	32.0	32.0	3.0	0.20	0.731	185.5
60148	*	35.0	35.0	1.6	0.20	0.441	206.3
31055	✓	36.0	36.0	2.5	0.20	0.698	210.0
90146	✓#	40.0	12.0	3.0		0.472	104.0
90147	✓#	40.0	20.0	3.0		0.599	154.0
30896	✓#	40.0	25.0	3.0	0.25	0.683	180.0
60018	✓	45.0	25.0	3.0	0.30	0.723	183.2
30946	*	46.5	40.0	3.0	0.25	0.979	246.0
30797	✓#	50.0	16.0	3.0	0.30	0.618	157.0
30900	✓	50.0	25.0	3.0	0.25	0.764	200.0
31138	*	50.0	30.0	1.6	0.30	0.463	216.0
60217	✓	50.0	50.0	3.0	0.30	1.171	294.0
60081	✓	54.2	25.0	1.6	1.0 / 0.30	0.434	203.7
30932	*	60.0	12.0	3.0	0.25	0.634	161.0
60177	✓	75.0	25.0	3.0	0.30	0.967	243.0
31137	*	75.0	30.0	1.5	0.30	0.536	266.0
30602	✓	75.0	40.0	4.5	7.50 (R) / 0.51	1.845	294.0
90029	✓	75.0	40.0	6.0		2.325	298.0
31028	*	75.0	75.0	3.0	0.30	1.779	442.0
31033	✓	76.0	33.0	8.0	0.50	2.406	271.0
31061	*	90.0	12.0	3.0	0.30	0.878	271.0
60166	*	90.0	25.0	5.0	2.50	1.754	267.0
60196	*	94.0	75.0	6.0	0.30	3.772	476.0

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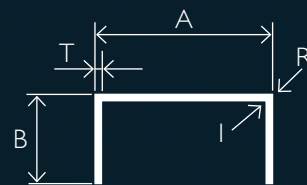
Other stock lengths available in this size. If the product you require is not listed please enquire

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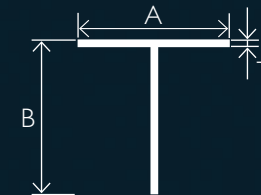
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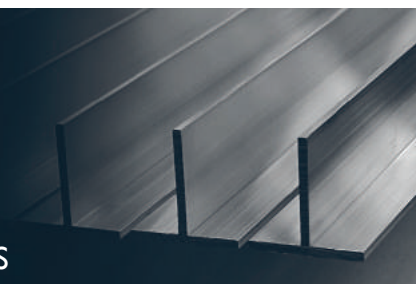
ALLOY 6060 : 5 METRE LENGTHS



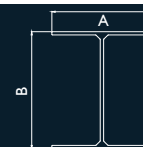
SECTION	EX STOCK	SIZE mm			RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	I / R		
30923	✓	100.0	25.0	3.0	0.25	1.170	293.4
60203	✓	100.0	50.0	3.0		1.577	394.0
60172	✓	100.0	50.0	4.5	0.30	2.329	391.0
90019	✓#	100.0	50.0	6.0		3.057	388.0
90109	✓	117.0	25.0	2.5	1.50	0.976	326.0
60136	*	150.0	75.0	2.5	0.30	1.998	594.2
90047	✓	150.0	75.0	3.5		2.768	592.0
90196	*	150.0	75.0	5.0		3.915	590.0
60192	✓	150.0	75.0	6.0		4.862	588.0
90064	*	203.20	63.5	4.75		4.113	651.0



ALLOY 6060 : 5 METRE LENGTHS

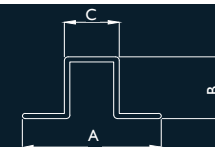


SECTION	EX STOCK	SIZE mm			KILO / METRE	PERIMETER mm
		A	B	T		
90043	*	25.0	25.0	1.6	0.209	100
60031	✓	25.0	25.0	3.0	0.382	100
31000	✓	40.0	40.0	3.0	0.624	160
31102	✓	40.0	50.0	6.0	1.366	179
90096	✓	44.4	25.4	2.5	0.456	136
60207	*	50.0	22.0	3.0	0.561	143
90104	✓	50.0	50.0	3.0	0.789	200
60188	✓	50.0	50.0	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	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

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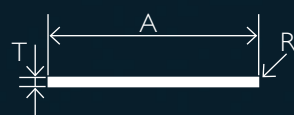
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ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	SIZE mm		RADII mm	KILO / METRE	PERIMETER mm
		A	T			
	*	9.5	3.18		0.082	25.42
60007	✓	12.0	3.00		0.097	30.00
	*	12.0	4.50		0.146	30.00
60050	*	12.0	6.00		0.195	38.00
90055	*	12.7	9.53		0.328	45.00
30569	✓	15.0	3.00	0.30	0.122	35.00
30036	✓	19.0	3.00	0.80	0.153	43.00
30290	✓	19.0	4.50		0.232	47.00
30291	✓	19.0	6.00		0.309	50.00
30276	*	20.0	3.00	1.50	0.157	43.00
60082	*	20.0	4.00	0.30	0.216	48.00
60112	*	22.5	6.00	3.00	0.345	51.8
30591	✓	25.0	1.60		0.108	53.00
31085	*	25.0	2.50	0.50	0.169	55.00
30311	✓	25.0	3.00		0.203	56.00
30292	✓	25.0	4.50		0.305	59.00
60155	*	25.0	5.00		0.339	59.7
30293	✓	25.0	6.00		0.406	62.00
30294	✓	25.0	9.00		0.610	68.00
60145	*	25.0	10.00	5.00	0.619	61.4
30577	✓	25.0	12.00		0.813	74.00
30067	*	25.4	4.00	2.00	0.266	55.00
30029	*	25.4	12.70	0.25	0.874	76.00
30981	*	27.0	3.00	0.20	0.220	60.00
31039	*	30.0	3.00	0.20	0.239	67.00
60214	*	30.0	4.00	2.00	0.316	67.8
60202	✓	30.0	6.00		0.488	71.5
60205	*	30.0	12.00	0.3	0.975	84.00
30295	✓	32.0	3.00		0.260	69.00
30578	✓	32.0	4.50		0.390	73.00
90157	✓	32.0	10.00		0.867	84.00
30579	✓	38.0	3.00		0.309	81.00
30580	✓	38.0	4.50		0.463	84.00
30296	✓	38.0	6.00		0.618	88.00
30297	✓	38.0	9.00		0.927	94.00
90057	✓	38.1	25.40		2.610	127.00
30001	✓	40.0	3.00	1.50	0.320	83.00

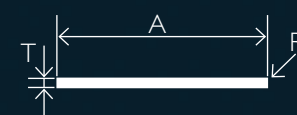
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ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	SIZE mm		RADII mm	KILO / METRE	PERIMETER mm
		A	T			
60040	✓	40.0	6.00	0.30	0.650	92.00
60182	✓	40.0	10.00		1.084	99.5
90168	✓	40.0	12.00		1.301	104.00
60063	*	50.0	1.60	0.20	0.216	103.00
30581	✓	50.0	3.00		0.406	106.00
30298	✓	50.0	4.50		0.610	109.00
30075	✓	50.0	6.00	0.25	0.813	111.00
90235	✓	50.0	8.00		1.084	116.00
30076	✓	50.0	10.00	0.25	1.335	120.00
30299	✓	50.0	12.00		1.626	124.0
90038	✓	50.0	20.00		2.710	140.0
30300	✓	50.0	25.00		3.387	150.0
30099	*	55.0	2.05		0.306	114.10
60028	✓	60.0	3.00		0.487	126.0
60043	*	60.0	5.00	2.50	0.798	128.0
90049	✓	60.0	6.00		0.972	132.0
30640	✓	60.0	10.00	0.30	1.626	139.0
30516	✓	65.0	6.00		1.057	142.0
10727	*	68.0	3.00		0.553	142.0
30582	*	70.0	20.00		3.794	179.0
60058	*	74.5	2.50	0.30	0.505	153.5
60195	*	75.0	2.00	0.30	0.406	154.0
31114	*	75.0	1.60	0.30	0.325	150.0
30301	✓	75.0	3.00		0.610	156.0
30078	✓	75.0	6.00	0.25	1.219	161.0
30934	✓	75.0	10.00		2.032	170.0
30456	✓	75.0	12.00		2.439	173.0
30583	*	75.0	20.00		4.065	189.0
60046	*	80.0	1.40	0.30	0.303	162.3
30772	*	80.0	1.50		0.325	162.0
60044	✓	80.0	6.00	Full Radius	1.280	172.0
60161	✓	90.0	2.50		0.609	184.5
31116	*	90.0	12.00	0.30	2.927	204.0
30838	*	100.0	1.60		0.434	203.0
60160	✓	100.0	2.00	0.30	0.542	203.5
30302	✓	100.0	3.00		0.813	206.0
30518	*	100.0	5.00	0.50	1.354	209.0
30077	✓	100.0	6.00	0.25	1.626	211.0

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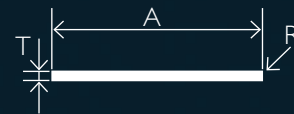
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ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	SIZE mm		RADII mm	KILO / METRE	PERIMETER mm
		A	T			
30490	✓	100.0	10.00		2.710	219.0
30303	✓	100.0	12.00		3.252	224.0
	*	100.0	25.00		6.775	250.0
30304	✓	101.6	9.00		2.478	221.0
60059	*	102.5	2.50	0.30	0.694	209.5
60162	*	112.0	3.00	0.30	0.91	229.5
60060	*	116.5	2.50		0.789	238.0
60002	✓	125.0	6.00	0.30	2.032	262.0
60125	✓	125.0	10.00	0.30	3.387	269.5
60061	*	126.0	2.50		0.853	257.0
60074	*	143.5	3.00		1.166	293.0
60083	*	150.0	1.60		0.649	301.8
60011	*	150.0	2.00		0.812	303.1
60025	✓	150.0	5.0	0.30	2.032	306.00
30709	✓	150.0	10.0	0.20	4.065	320.00
30805	✓	150.0	12.0		4.878	324.00
30826	*	165.0	8.0	0.30	3.577	346.00
60151	✓	200.0	10.0		5.420	420
30584	✓	200.0	12.0		6.504	423.00

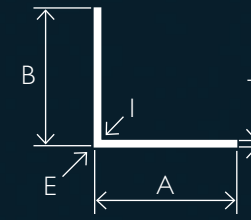
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ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	SIZE mm			RADII mm	KILO / METRE	PERIMETER mm
		A	B	T			
					I/E		
60048	✓	12.0	12.0	1.5		0.091	48
60041	*	12.0	12.0	1.6	0.30(E)	0.097	48
	*	12.0	12.0	3.0		0.170	48
90025	✓	16.0	16.0	1.6		0.132	64
30233	*	19.0	19.0	1.5		0.148	76
60091	*	20.0	20.0	1.4	0.20(E)	0.146	80
10160	✓	20.0	20.0	1.6		0.166	80
30892	✓	20.0	20.0	3.0		0.301	80
60008	*	25.0	25.0	1.4		0.184	100
10159	✓	25.0	25.0	1.6		0.210	100
30079	✓	25.0	25.0	3.0		0.382	99
	*	25.0	25.0	5.0		0.610	100
30884	*	30.0	30.0	2.0		0.314	119
30249	✓	30.0	30.0	3.0		0.463	120
90194	*	30.0	30.0	5.0		0.745	120
	*	30.0	30.0	6.0		0.878	120
60005	*	32.0	32.0	1.6		0.271	128
60006	✓	32.0	32.0	3.0		0.496	128
60045	*	40.0	40.0	1.4	0.30(E)	0.298	159
30893	✓	40.0	40.0	1.6		0.304	160
60079	*	40.0	40.0	2.0	0.50	0.422	159
30080	✓	40.0	40.0	3.0		0.626	159
30415	✓	40.0	40.0	4.5		0.921	160
60144	✓	40.0	40.0	6.0	0.20(E)	1.203	160
60067	✓	50.0	50.0	1.6		0.427	200
30232	✓#	50.0	50.0	3.0		0.789	200
30082	✓#	50.0	50.0	4.5	1.00 INT	1.165	200
30081	✓	50.0	50.0	6.0		1.528	199
90236	✓	60.0	60.0	3.0		0.951	240
	*	60.0	60.0	6.0		1.854	240
30629	✓	65.0	65.0	6.0	0.20 (E)	2.016	259
60218	✓	75.0	75.0	3.0		1.195	300
30742	✓	75.0	75.0	4.5	0.30 (E)	1.774	300
30336	✓	75.0	75.0	6.0		2.341	300
	*	76.2	76.2	3.0		1.210	304
	*	76.2	76.2	9.0		3.485	304
60168	*	100.0	100.0	3.0		1.601	399
60153	✓	100.0	100.0	6.0		3.154	399
20001	✓	100.0	100.0	10.0	5.00 (E)	5.134	398

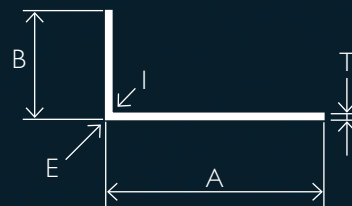
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ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	A	B	T	RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	I/E		
60092	*	20.0	12.0	1.4	0.20(E)	0.115	64
30871	✓	20.0	12.0	1.6	0.30(E)	0.132	64
	*	20.0	12.0	3.0		0.235	64
60216	*	20.0	16.0	3.0		0.268	71
60093	*	25.0	12.0	1.4	0.20(E)	0.134	74
10161	✓	25.0	12.0	1.6		0.153	74
60139	✓	25.0	12.0	3.0	0.20(E)	0.276	74
30020	✓	25.0	20.0	1.4	0.20 (E)	0.165	89
60165	*	25.0	20.0	3.0	0.30 (E)	0.340	90
60062	*	30.0	20.0	1.3	0.30(E)	0.171	100
	*	30.0	20.0	1.6		0.210	100
30922	*	32.0	19.0	3.0	0.20(E)	0.390	102
60009	*	32.0	20.0	1.4	0.30(E)	0.192	104
60121	*	32.0	20.0	1.4	0.20(E)	0.192	104
30671	✓#	32.0	20.0	1.5	0.20(E)	0.205	104
30489	*	35.0	10.0	3.0		0.341	89
60089	*	38.0	30.0	2.4	0.30(E)	0.426	136
60113	*	40.0	10.0	3.0	0.50(E)	0.381	99
20494	*	40.0	18.0	1.5	0.20(E)	0.230	113
10162	✓	40.0	20.0	1.5		0.238	120
60085	*	40.0	20.0	5.0	2.50(E)	0.727	115
60114	*	40.0	25.0	1.4	0.20(E)	0.241	130
90075	*	40.0	25.0	1.6		0.275	130
30664	✓	40.0	25.0	3.0	0.20(E)	0.504	130
	*	50.0	20.0	1.6		0.297	140
	*	50.0	20.0	3.0		0.543	140
60087	*	50.0	25.0	1.4	0.20(E)	0.279	150
10163	✓	50.0	25.0	1.6		0.318	149
30895	✓	50.0	25.0	3.0	0.20(E)	0.583	150
60173	✓#	50.0	40.0	5.0		1.148	180
60158	*	60.0	40.0	3.0	0.30(E)	0.788	200
60115	*	70.0	25.0	1.4	0.40(E)	0.355	190
60200	*	70.0	25.0	1.5		0.379	190
30573	✓	75.0	25.0	3.0	0.20(E)	0.789	199
30592	✓	75.0	50.0	3.0	0.20(E)	0.992	249

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

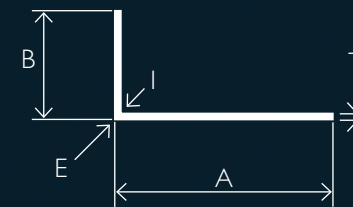
* Mill runs only, please ask regarding the availability of these

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ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	A	B	T	RADII mm	KILO / METRE	PERIMETER mm
		A	B	T	I/E		
60256	✓	75.0	25.0	1.5	0.30(E)	0.400	199.4
30806	✓	75.0	50.0	4.5	0.20(E)	1.469	250
31040	✓	75.0	50.0	6.0	0.30(E)	1.935	250
60100	*	92.0	20.0	3.0	0.20(E)	0.886	224
	*	100.0	25.0	3.0		0.988	250
30642	✓	100.0	50.0	2.0	0.30(E)	0.802	299
30088	✓#	100.0	50.0	3.0		1.195	299
30509	✓	100.0	50.0	6.0	0.50(E)	2.341	299
60066	✓#	100.0	75.0	6.0	0.50(E)	2.747	350
90080	✓	100.0	75.0	8.0		3.62	350
60185	*	125.0	75.0	5.0	0.30(E)	2.642	400
60101	✓#	150.0	75.0	6.0	0.30(E)	3.561	450
90100	✓	150.0	75.0	6.0	0.60(I)	3.582	447
60240	✓	150.0	75.0	8.0	0.30(E)	4.704	449
30696	✓	160.0	40.0	1.8	0.20(E)	0.967	399

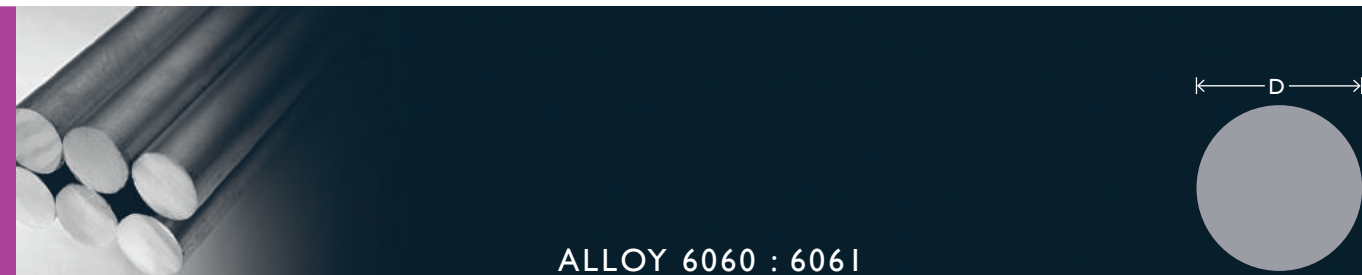
A = Width B = Height T = Thickness I = Internal Radii R = External Radii

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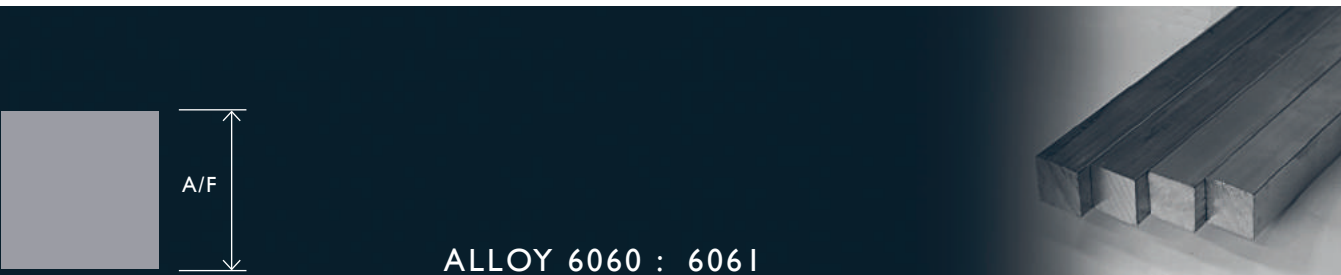
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ALLOY 6060 : 6061

SECTION	EX STOCK	SIZE mm	KILO / METRE	PERIMETER mm
		D		
90061	✓	6.35	0.086	19.95
31088	✓	9.53	0.193	29.94
90088	✓	12.70	0.342	39.90
40584	*	15.00	0.479	47.1
90158	✓	16.00	0.537	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	78.5
90063	✓	25.40	1.375	80.00
90307	✓	30.0	1.92	94.48
90123	✓	31.75	2.143	100.00
90111	✓	38.10	3.090	120.00
	*	44.45	4.190	139.64
	*	50.00	5.321	157.08
90161	✓	50.80	5.472	159.59
	*	60.00	7.622	188.50
90040	✓	63.50	8.551	199.49
90048	✓	75.00	11.980	235.70
	*	101.60	21.890	319.19

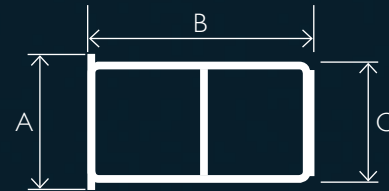
D = Diameter
* Mill runs only, please ask regarding the availability of these
If the product you require is not listed please enquire


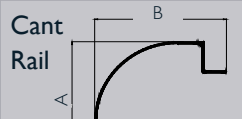

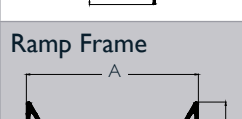


ALLOY 6060 : 6061

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	1.694	100.00
60122	✓	26.00	1.832	104.00
90149	✓	31.75	2.721	127.00
90010	✓	38.10	3.919	152.40
90097	✓	50.00	6.75	200.0

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	9.624	555.7	6005A/ T5
90028	✓	Chassis Rail 	150.0	230.0	111.0	7.4m	15.307		6005A/ T5
90347	✓	Coaming 	82.2	215.55	118.0	5.4m 7.3m	7.298		6351/T5
90215	*	Coving 	273.0	178.0		5.4m 7.3m	8.63		6351/T5
90302	✓	Cant Rail 	133.35	131.0		6.0m	2.174		6060/T5
90303	✓	Cant & Drip 	136.0	135.0		6.0m	2.317	537.1	6060/T5
90002	✓	Ramp Frame 	150.0	75.0	6.00/3.0	5.0m	4.255	523.2	6082 /T6
90322	✓	Huck Rail 	100.0		4.0	6.0m	1.232		6061/T5
60021	*	Transport Frame 	125.1	174.69			3.252	440.0	6060/T5

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


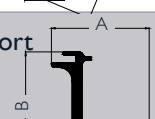
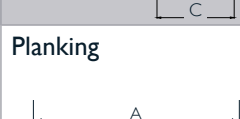
* Mill runs only, please ask regarding the availability of these

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SECTION	EX STOCK	PRODUCT	A	SIZE mm	C	LENGTH mm	KILO / METRE	PERIMETER mm	ALLOY
			A	B	C				
60022	*	Transport Frame 	100.0	183.74			1.917	437.0	6060/T5
60140	*	Transport Body 	76.1	83.7	60.1		3.848	331	6060/T5
90042	✓	Planking 	228.0	12.7		6.0m	1.673		6063 /T6

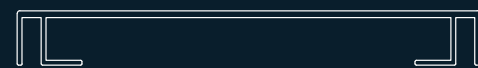
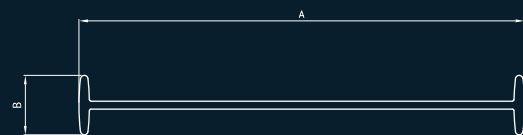
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ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	PRODUCT	A	SIZE mm	KILO / METRE	PERIMETER mm
			A	B		
30572	*	Blade 	150.0	20.0	1.375	365.7
31018	✓	Frame 	170.0	20.0	1.619	534.8
60105	*	Frame 	149.0	25.0	1.306	484.0
60106	*	Frame 	182.0	22.0	1.802	556.0
60107	*	Frame 	140.0	25.0	1.295	458.0
60108	*	Frame 	200.0	25.0	2.206	615.0
60109	*	Frame 	32.0	25.0	0.453	131.0

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ALLOY 6060 : 5 METRE LENGTHS

SECTION	EX STOCK	PRODUCT	A	SIZE mm	T	KILO / METRE	PERIMETER mm
			A	B	T		
60051	✓	U Channel 	40	30	3.5	0.724	159
60190	*		40	30	5.0	1.356	178.3
90046	✓		50	35	3.0	0.986	190
60052	✓		60	45	5.0	1.706	240
90122	✓		75	55	6.0	2.490	296
32487	*		80	40	3.0	1.021	256.0
31293	✓	Perspex Cap 	12.8	9.5	-	0.183	74
60150	✓	Herzim 	33	8.28	-	0.272	104
31002	✓	Windscreen 	22	12	-	0.373	97.2
90135	✓	Double Side Awning 	32.0	13.70		0.335	110
60104	✓	Awning Track 	29.8	13.90		0.217	102.9
90165	✓	Awning Track 	27.95	12.65		0.228	95.0
90301	✓	Drip Mould 	24.0	12.5		0.148	76.0

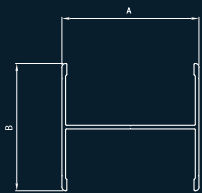
A = Base B = Leg T = Thickness

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

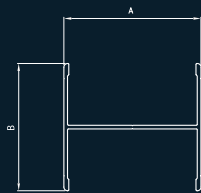
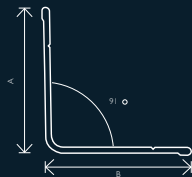
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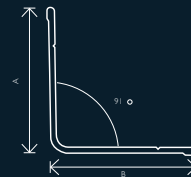
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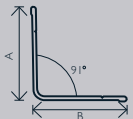
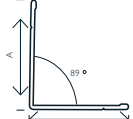
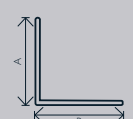

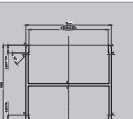
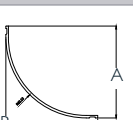
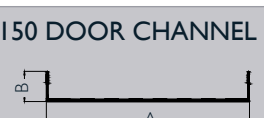
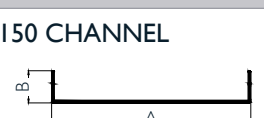

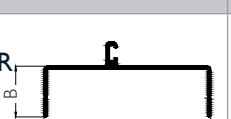


ALLOY 6060 : 5 METRE LENGTHS

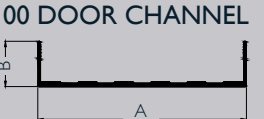

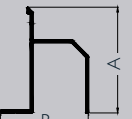
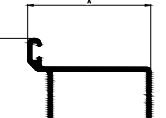
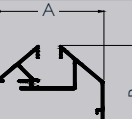
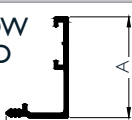


ALLOY 6060 : 5 METRE LENGTHS



SECTION	EX STOCK	PRODUCT		SIZE mm	KILO / METRE	PERIMETER mm
			A	B		
60053	*	ANGLE 	38.0	38.0	0.302	149.3
60054	*	ANGLE 	40.0	40.0	0.323	159.6
60079	*	ANGLE 	40.0	40.0	0.422	158.9
60081	*	CHANNEL 	54.2	25.0	0.434	203.7
60212	*	I BEAM 	55.0	51.0	0.646	311.0
90253	*	COVING 	91.5	91.5	0.944	303.0
60227	*	150 DOOR CHANNEL 	168.0	25.0	1.223	437.0
60226	*	150 CHANNEL 	155.0	25.0	1.086	404.7
60225	*	100 CHANNEL 	105.0	25.0	0.815	304.7
60224	*	100 DOOR JAMB 	105.0	32.0	1.043	388.6

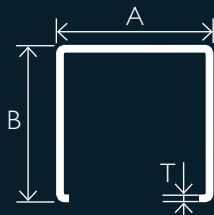
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Other stock lengths available in this size. If the product you require is not listed please enquire

SECTION	EX STOCK	PRODUCT		SIZE mm	KILO / METRE	PERIMETER mm
			A	B		
60223	*	100 DOOR CHANNEL 	117.0	25.0	0.89	330.2
60222	*	SLIDING DOOR TRACK 	97.5	50.0	2.509	452.0
60221	*	CHAIR FRAME 	65.0	54.0	0.802	314.0
60228	*	50MM DOOR JAMB 	66.10	47.5	0.803	309
60229	*	50MM C/R WINDOW FRAME 	59.00	50.00	0.712	356
60230	*	C/R WINDOW FRAME BEAD 	30.20	18.70	0.220	119

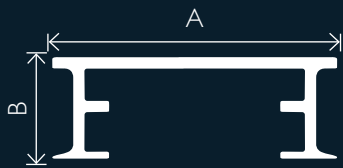
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Other stock lengths available in this size. If the product you require is not listed please enquire



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	✓	100.0	75	6.0	3.770	544.7

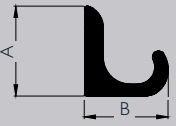
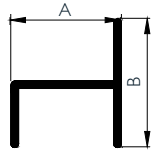

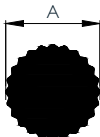


DIN RAIL - ALLOY 6060

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	0.227	113.6
30247	*	SERRATED BAR 	9.75		0.191	33.4
60001	*	SERRATED BAR 	16.0		0.515	54.9

A = Width B = Height T = Thickness R = External Radii
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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	600	5005	H32	1.458
*	0.9	900	5005	H32	2.187
✓	0.9	1200	5005	H32	2.916
✓	1.2	600	5005	H32	1.944
✓	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

*	0.9	610	5052	H34	1.47
✓	0.9	940	5052	H34	2.256
✓	0.9	1200	5052	H34	2.894
*	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

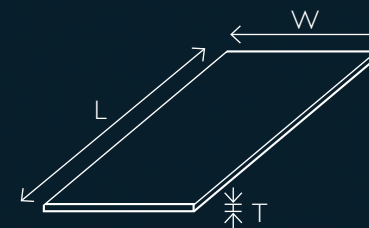
✓	0.7	940	ROOFING 5052	H36	1.763
✓	0.7	1220	ROOFING 5052	H36	2.288
✓	0.9	940	ROOFING 5052	H36	2.267
✓	0.9	1220	ROOFING 5052	H36	2.942
✓	0.9	2450	ROOFING 3003	H16	6.019
✓	1.2	2450	ROOFING 3003	H16	8.026

✓	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

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ALLOY 5005

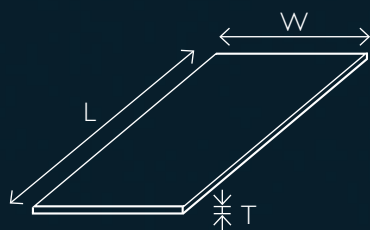
EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	0.45	900	2400	3003	H12	2.65
*	0.55	900	2400	3003	H12	3.24
✓	0.55	1200	2400	3003	H14	4.27
✓	0.55	1200	2400	5005	H32	4.27
✓	0.70	900	2400	5005	H32	4.08
✓	0.70	1200	2400	5005	H34	5.44
✓	0.70	1200	3000	5005	H34	6.80
✓	0.90	900	2400	5005	H34	5.24
✓	0.90	1200	2400	5005	H34	7.00
✓	0.90	1200	3600	5005	H34	10.49
✓	1.20	1200	2400	5005	H34	9.33
✓	1.20	1200	3600	5005	H34	13.99
✓	1.20	1200	5000	5005	H34	19.44
✓	1.20	1200	6000	5005	H34	23.41
✓	1.20	1500	3000	5005	H34	14.58
✓	1.50	1200	2400	5005	H32	11.66
✓	1.50	1200	3600	5005	H32	17.49
✓	1.50	1200	5000	5005	H32	24.30
✓	1.50	1200	6000	5005	H32	29.26
✓	1.50	1500	3000	5005	H32	18.22
✓	1.50	1500	3600	5005	H32	21.87
✓	2.00	1200	2400	5005	H32	15.55
✓	2.00	1200	3600	5005	H32	23.33
✓	2.00	1200	5000	5005	H32	32.40
✓	2.00	1200	6000	5005	H32	38.90
✓	2.00	1500	3000	5005	H32	24.30
✓	2.00	1500	3600	5005	H32	29.16
✓	2.50	1200	2400	5005	H32	19.44
✓	2.50	1500	3000	5005	H32	30.37
✓	3.00	1200	2400	5005	H32	23.33
✓	3.00	1200	3000	5005	H32	29.16
✓	3.00	1200	3600	5005	H32	34.99
✓	3.00	1500	3000	5005	H32	36.45
✓	3.00	1500	3600	5005	H32	43.74
5005 ANODISED SHEET SATIN, 25 MICRON						
✓	1.20	1200	2400	5005	H34	9.33
✓	1.20	1200	3600	5005	H34	13.99

T = Thickness W = Width L = Length

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

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ALLOY 5052 : 5083 : 1200



EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
*	0.90	1200	2400	5052:5251	H34	6.95
✓	1.20	1200	2400	5052:5251	H32	9.26
✓	1.50	900	2400	5052:5251	H32	8.68
✓	1.50	1200	2400	5052:5251	H32	11.58
✓	1.50	1200	3600	5052:5251	H32	17.36
✓	1.60	1500	6000	5052:5251	H32	38.59
✓	2.00	900	2400	5052:5251	H32	11.58
✓	2.00	1200	2400	5052:5251	H32	15.43
✓	2.00	1500	3000	5052:5251	H32	24.12
✓	2.00	1500	3600	5052:5251	H32	28.94
*	2.50	900	2400	5052:5251	H32	14.47
✓	2.50	1200	2400	5052:5251	H32	19.29
✓	2.50	1200	4800	5052:5251	H32	38.59
✓	2.50	1500	2500	5052:5251	H32	25.12
✓	2.50	1500	3000	5052:5251	H32	30.15
✓	3.00	1200	2400	5052:5251	H32	23.15
✓	3.00	1200	4800	5052:5251	H32	46.31
✓	3.00	1200	6100	5052:5251	H32	58.85
✓	3.00	1500	2500	5052:5251	H32	30.15
✓	3.00	1500	3000	5052:5251	H32	36.18
✓	3.00	1500	3600	5052:5251	H32	43.41
✓	3.00	1500	4800	5052:5251	H32	57.88
✓	3.00	1830	6100	5052:5251	H32	89.75
✓	3.00	1200	2400	5083	H116/321	22.98
✓	3.00	1200	6100	5083	H116/321	58.85
✓	3.00	1830	6100	5083	H116/321	89.08
✓	0.90	1200	2400	1200	H12	7.02
✓	1.20	1200	2400	1200	H12	9.36
✓	1.60	1200	2400	1200	H12	12.48
✓	2.00	1200	2400	1150	O	15.61

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

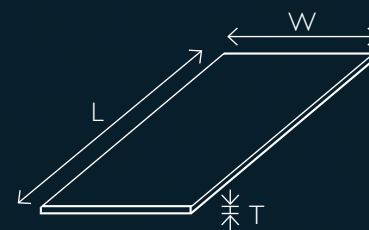
If the product you require is not listed please enquire

CIRCLES AVAILABLE ON REQUEST

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ALLOY 5005 : 1100/1200



EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	0.70	1200	2400	5005	H32	5.46
✓	0.90	1200	2400	5005	H32	6.99
✓	1.50	1200	2400	5005	H32	11.66
✓	0.70	914	2400	1200	H12	4.09
✓	0.70	1200	2400	1100	H14	5.46
✓	0.90	914	2400	1100	H14	5.27
✓	1.20	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

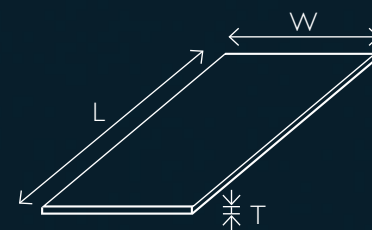
All weights shown are theoretical and the actual weight may vary

If the product you require is not listed please enquire

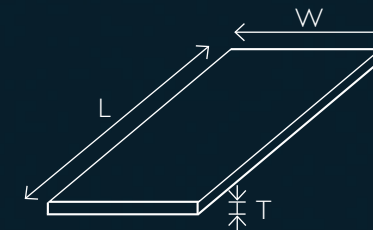
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ALLOY 5005 : 5052



ALLOY 5083



EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	4.00	1200	2400	5005	H32	31.10
*	4.00	1200	4800	5005	H32	62.20
✓	5.00	1200	2400	5005	H32	38.88
*	5.00	1200	4800	5005	H32	77.76
✓	6.00	1200	2400	5005	H32	46.65
*	6.00	1200	4800	5005	H32	93.31

✓	4.00	1200	2400	5052	H32	30.87
✓	4.00	1200	4800	5052	H32	61.74
✓	4.00	1500	3000	5052	H32	48.24
✓	4.00	1500	3600	5052	H32	57.88
✓	4.00	1830	6100	5052	H32	119.66
✓	5.00	1200	2400	5052	H32	38.59
*	5.00	1200	4800	5052	H32	77.18
✓	5.00	1500	3000	5052	H32	60.30
✓	5.00	1500	3600	5052	H32	72.36
✓	6.00	1200	2400	5052	H32	46.31
*	6.00	1200	4800	5052	H32	92.62
✓	6.00	1500	3000	5052	H32	72.36
✓	6.00	1500	3600	5052	H32	86.83
✓	8.00	1500	3000	5052	H32	97.56
✓	12.00	1200	3000	5052	H32	115.78

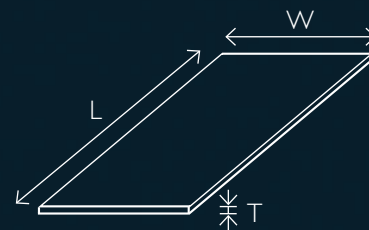
W = Width L = Length T = Thickness
 * Please ask regarding the ex stock availability
 Indent available for alternative sizes and thickness
 All weights shown are theoretical and the actual weight may vary

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			
✓	4.00	1200	2400	5083	H321/H116	30.64
✓	4.00	1200	4800	5083	H321/H116	61.28
✓	4.00	1200	6100	5083	H321/H116	77.85
✓	4.00	1200	6800	5083	H321/H116	86.82
✓	4.00	1200	7000	5083	H321/H116	89.37
✓	4.00	1200	7500	5083	H321/H116	95.76
✓	4.00	1200	8200	5083	H321/H116	104.69
✓	4.00	1500	6100	5083	H321/H116	97.35
✓	4.00	1830	6100	5083	H321/H116	118.77
✓	4.00	2000	6000	5083	H321/H116	127.68
✓	5.00	1200	2400	5083	H321/H116	38.30
✓	5.00	1200	4800	5083	H321/H116	76.60
✓	5.00	1200	5800	5083	H321/H116	92.56
✓	5.00	1200	6100	5083	H321/H116	97.35
✓	5.00	1500	6100	5083	H321/H116	121.69
✓	5.00	1830	6100	5083	H321/H116	148.46
✓	5.00	2000	6100	5083	H321/H116	162.26
✓	5.00	2000	8000	5083	H321/H116	212.80
✓	6.00	1200	2400	5083	H321/H116	45.96
✓	6.00	1200	2500	5083	H321	47.88
✓	6.00	1200	4800	5083	H321/H116	91.93
✓	6.00	1200	6100	5083	H321/H116	116.82
✓	6.00	1830	6100	5083	H321/H116	178.16
✓	6.00	1830	8000	5083	H321/H116	233.65
✓	6.00	1830	9000	5083	H321/H116	262.86
✓	8.00	1200	2400	5083	H321/H116	61.28
*	8.00	1200	4800	5083	H321/H116	122.57
✓	8.00	1830	6100	5083	H321/H116	237.19
✓	10.00	1200	2400	5083	H321/H116	76.60
*	10.00	1200	4800	5083	H321/H116	153.21
✓	10.00	1830	6100	5083	H321/H116	296.93
✓	12.00	1200	2400	5083	H321/H116	91.93
*	12.00	1200	4800	5083	H321/H116	183.86
✓	12.00	1830	6100	5083	H321/H116	356.32

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

ALLOY 5083



EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	ALLOY TYPE	TEMPER	KILO / SHEET
	T	W	L			
✓	16.00	1200	2400	5083	H321/H116	122.57
✓	16.00	1830	6100	5083	H321/H116	475.10
✓	20.00	1200	2400	5083	H321/H116	153.21
✓	25.00	1200	2400	5083	H321/H116	191.52
✓	32.00	1200	2400	5083	H321/H116	245.14
*	40.00	1200	2400	5083	H321/H116	306.43
*	50.00	1200	2400	5083	H321/H116	383.04
*	60.00	1200	2400	5083	H321/H116	459.65
*	80.00	1200	2400	5083	H321/H116	612.86
*	100.00	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

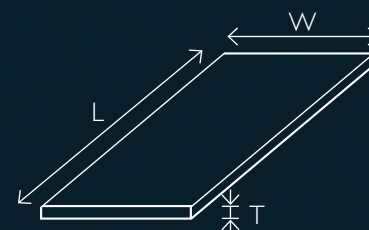
All weights shown are theoretical and the actual weight may vary

Temper may also be O or F

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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
✓	2.00	1200	2400	5052	O	18.15
✓	2.00	1500	2400	5052	O	19.44
✓	3.00	1200	2400	5052	H114#	26.68
✓	3.00	1200	4800	5052	H114#	53.36
✓	3.00	1500	3600	5052	O	52.00
✓	3.00	1500	4500	5052	H114#	64.00
✓	3.00	1700	4000	5052	H114#	72.55
✓	4.00	1200	1200	5052	H114#	17.44
✓	4.00	1200	2400	5052	H114#	34.88
✓	4.00	1200	4800	5052	H114#	69.88
✓	4.00	1500	3600	5052	O	65.51
✓	4.00	1500	4500	5052	O	81.89
✓	5.00	1200	2400	5052	H114#	43.32
✓	5.00	1200	4800	5052	O	85.50
✓	5.00	1500	3000	5052	O	64.12
✓	6.00	1200	2400	5052	O	51.30
✓	6.00	1500	3000	5052	O	73.17
✓	6.00	1500	3600	5052	O	87.80
✓	8.00	1200	2400	5052	O	69.12
✓	8.00	1200	4800	5052	O	138.24

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

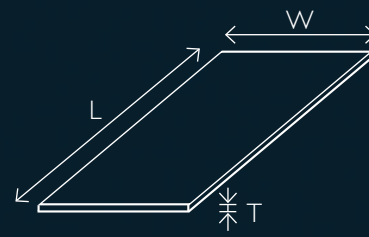
All weights shown are theoretical and the actual weight may vary

Temper may also be O or F


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SINGLE DIAMOND PATTERN : MILL

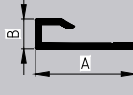
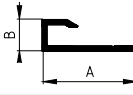
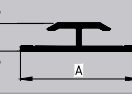


EX STOCK	THICKNESS mm	WIDTH mm	LENGTH mm	FINISH	KILO / SHEET
	T	W	L		
✓	7.00	750	2050	MILL	4.17
✓	7.00	920	2050	MILL	5.11
✓	7.00	1250	2050	MILL	6.94

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

ALUMINIUM COMPOSITE PANEL

EX STOCK	THICKNESS mm	ALUMINIUM SKIN	WIDTH mm	LENGTH mm	FINISH	KILO / SHEET
	T		W	L		
✓	4.00	0.3/0.3mm	1220	2440	GLOSS WHITE / MATT WHITE	14.28
✓	4.00	0.3/0.3mm	1220	2440	GLOSS BLACK / SATIN BLACK	14.28
✓	4.00	0.3/0.3mm	1220	2440	GLOSS WHITE / SILVER P.C	14.28
✓	4.00	0.3/0.3mm	1550	3050	GLOSS WHITE / MATT WHITE	22.69
✓	4.00	0.3/0.3mm	1550	3050	GLOSS BLACK / SATIN BLACK	22.69
✓	4.00	0.3/0.3mm	1550	3050	GLOSS WHITE / SILVER P.C	22.69

SECTION	EX STOCK	EXTRUSIONS		SIZE MM		KILO/ WEIGHT	PERI MM
			A	B	T		
60237	✓	3mm ACM PANEL CAP 	21	6.20	1.2	0.105	67.5
60238	✓	4mm ACM PANEL CAP 	21	7.10	1.2	0.108	69.2
60239	✓	4mm ACM PANEL JOINTER 	30	7.10	1.2	0.162	102.7

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

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SURFACE FINISHING : ANODISING



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.

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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 PRODUCT 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
Scope of Warranties Offered			
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.			
Powder Coating Features and Benefits			
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
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.			

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.

DEFINITION OF TERMS : ALUMINIUM & 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.

DEFINITION OF TERMS : ALUMINIUM & ITS ALLOYS

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.

TEMPER DESIGNATION SYSTEM : ALUMINIUM & ITS ALLOYS

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.

TEMPER DESIGNATION SYSTEM : ALUMINIUM & ITS ALLOYS

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 Min Max	Yield 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 ⁵	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		12.0	150	205	8
6060	- T5	-	12.0	150	110	6
		12.0	25.0	145	105	
6060	- T52	-	12.0	150	205	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	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	Max	
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	- H391	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 (%)	Com- mercial Forms ¹	Typical Applications 2*	Characteristics ²				Weldability			Heat Treat	
				Corrosion Resis- tance	Machining	Anodising ³	Brazing	Cold Forming	Gas Weld	Inert Gas Weld	Resis- tance Spot Weld	
1199	Al 99.99 min	F	Electrical and electronic foil use.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
1080A	Al 99.80 min	S,P,T,E,B,F	Chemical and process plant and equip- ment.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
1070	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
1050	Al 99.50 min	S,P,T,E,B,F	Chemical and process plant and equip- ment.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
1145	Al 99.45 min	F	Foil use.	A,A	D,C	B,B	A	A,D	A	A	B,A	No
1150	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
1100	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
1200	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
1235	Al 99.35	FT	Deep Drawing, Forming	A,A	D,C	B,B	A	A,C	A	A	B,A	No
1350	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 & ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA										
ALLOY	Nominal Composition (%)	Commercial Forms ¹	Typical Applications 2*	Characteristics ²			Weldability			
				Corrosion Resistance	Machining	Anodising ³	Brazing	Cold Forming	Gas Weld	Inert Gas Weld
3005	Mn 1.2 Mg 0.35	FS	High-strength foil.	A,A	D,C	B,B	B,B	A,C	B	A
3105	Mn 0.5 Mg 0.5	FS	Painted sheet products.	A,A	D,C	B,B	B,B	A,C	B	A
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
5050A	Mg 1.4	FS,T,P	Refrigerator trim, painted sheet.	A,A	D,C	B,B	B	A,C	A	A
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
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
5252	Mg 2.5	S	High strength automobile trim.	A,A	C,B	A,A	NR	A,C	NR	NR
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
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
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
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
5457	Mg 1.0 Mn 0.2 Cu 0.1	S	Automobile trim.	A,A	C,C	A,A	NR	A,C	NR	NR
5557	Mg 0.6 Mn 0.2 Cu 0.1	S	Automobile trim.	A,A	C,C	A,A	NR	A,C	NR	NR

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TYPICAL FABRICATION CHARACTERISTICS : ALUMINIUM & ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA										
ALLOY	Nominal Composition (%)	Commercial Forms ¹	Typical Applications 2*	Characteristics ²			Weldability			
				Corrosion Resistance	Machining	Anodising ³	Brazing	Cold Forming	Gas Weld	Inert Gas 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
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
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
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
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
6463A	Mg 0.7 Si 0.4	EB	Trim extrusions requiring decorative finishing.	A,A	C,C	A,A	A	A,C	A	A
6101	Mg 0.6 Si 0.5	T,E,B,P	Electrical conductors.	A,B	B,C	A,A	A	A,C	A	A
6201A	Mg 0.7 Si 0.6	W,B	Electrical conductors.	A,B	B,C	A,A	A	A,C	A	A
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
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
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
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
6351	Mg 0.6 Si 10. 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

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TYPICAL FABRICATION CHARACTERISTICS : ALUMINIUM & ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA												
ALLOY	Nominal Composition (%)	Com-mercial Forms ¹	Typical Applications 2*	Characteristics ²			Weldability			Heat Treat		
				Corrosion Resis-tance	Machining	Anodising ³	Brazing	Cold Forming	Gas Weld		Inert Gas Weld	Resis-tance Spot Weld
6061	Mg 1.0 Si 0.6 Cu 0.25 Cr 0.2	S,P,T,E, W,B	Structural applications where corrosion re-sistance is needed. Transport, marine, aircraft landing mats.	B,B	C,B	B,B	A	A,C	A	A	B,A	Yes
6262	Mg 1.0 Si 0.6 Cu 0.25 Cr 0.1 Bi 0.6 Pb 0.6	W,B	Screw machine products suitable for deco-rative anodising.	B,B	A,A	B,B	A	A,C	A	A	B,A	Yes
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	A	C,C	Yes
8006	Fe 1.5 Mn 0.5	S,F	Heat exchanger fins, foil, rectangular pressings.	A,A	D,C	B,B	A	A	A	A	B,A	No
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	A	B,A	No

¹ 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.

² 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.

³ 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 & 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 ²)	

MASS COVERSION FACTOR

ALLOY	DENSITY (kg/m ³ x 10 ³)	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 & PLATE

Recommended Minimum Inside Bending Radii for 90 Degree Cold Forming of Sheet and Plate ¹²³ (bending transverse to rolling direction)									
ALLOY	TEMPER	RADI FOR VARIOUS THICKNESSES EXPRESSED IN TERMS OF THICKNESS t							
		t=0.4mm	t=0.8mm	t=1.6mm	t=3.0mm	t=4.0mm	t=6.0mm	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 ²	- 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				
5050A	- 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 ²	- 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

¹ 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.

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

³ 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.

METRIC CONVERSIONS

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

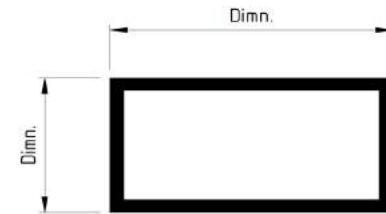
1 pound (lb) is equal to 0.45359237 kilograms (kg).

EXTRUSION TOLERANCE GUIDELINES

TOLERANCES ALLOWED FOR ROUND TUBES, SQUARE AND RECTANGULAR HOLLOWS

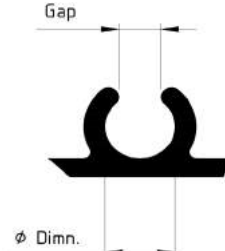


SPECIFIED DIMENSIONS	
Dimn.	Tol.
UP TO 25.0	±0.50
25.1 TO 50.0	±0.70
50.1 TO 100.0	±0.80
100.1 TO 125.0	±1.30
125.1 TO 150.0	±1.30
150.1 TO 180.0	±1.90
180.1 TO 200.0	±1.90
200.1 TO 220.0	±2.60
220.1 TO 250.0	±2.60



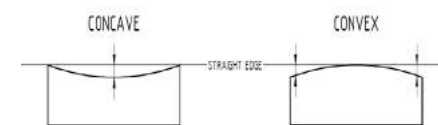
SPECIFIED DIMENSIONS	
Dimn.	Tol.
UP TO 25.0	±0.50
25.1 TO 50.0	±0.70
50.1 TO 100.0	±0.90
100.1 TO 125.0	±1.20
125.1 TO 150.0	±1.40
150.1 TO 180.0	±1.70
180.1 TO 200.0	±1.90
200.1 TO 220.0	±2.20
220.1 TO 250.0	±2.40

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.

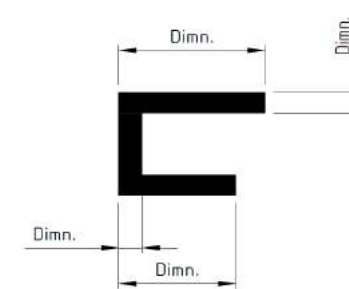
EXTRUSION TOLERANCE GUIDELINES

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.