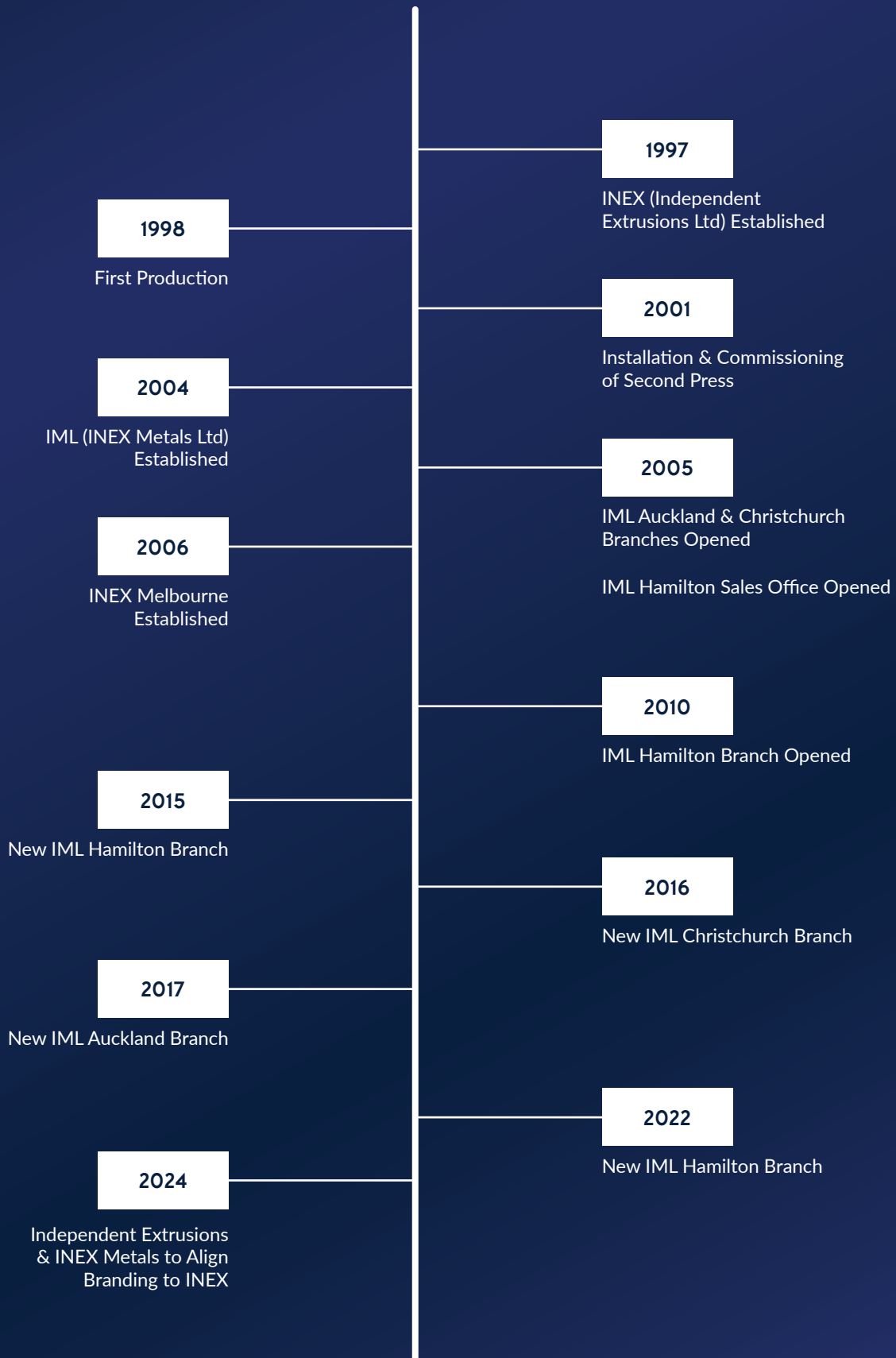


INEX

ALUMINIUM CATALOGUE



INEX TIMELINE



INTRODUCTION

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SUPPORTING LOCAL MANUFACTURING

INEX is a privately owned joint venture established in 1997 in response to market demand and is recognized as a leading producer of aluminium extrusion in Australasia. With the capacity to produce more than 30,000 tonnes of custom and standard extrusion profiles annually as well as a comprehensive range of rolled products in sheet, plate and coil form, INEX is positioned as a one-stop aluminium solution provider.

Our sales team are skilled in offering our specialty services on extrusion design, material selection and technical advice for your specific job. Add to this our in-house Powder Coating and Anodising facilities to complete a full range of services.

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

WEB CONTACT

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

INEX.CO.NZ

Disclaimer: Every effort has been made to ensure accuracy and the most up to date information in the compilation of this catalogue. However, Inex 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 Ltd reserves the right to change product design and specifications without notice.

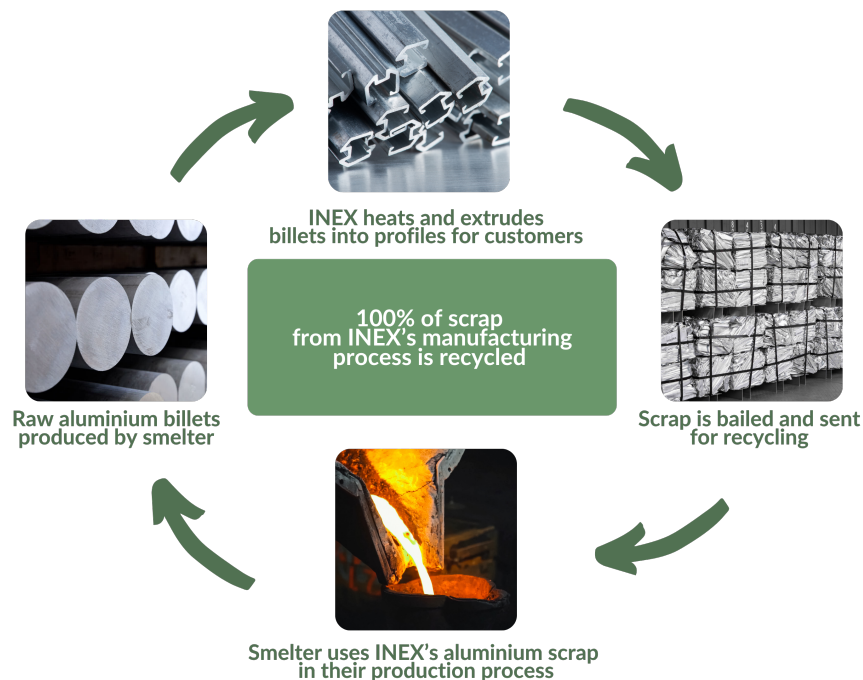
SUSTAINABILITY AT INEX

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.

We conduct regular energy audits and invest in energy efficient technologies, as an example we use induction billet heating instead of gas eliminating CO2 emissions.

INEX promotes responsible waste management by recycling our aluminium scrap back to a primary producing smelter, significantly reducing energy requirements and CO2 emissions. This process ensures high-quality aluminium while minimizing environmental impact. INEX also recycles all reusable components within its manufacturing and distribution such as timber dunnage, cardboard, plastics and steel packaging straps.

INEX supports a circular economy by ensuring that aluminium products retain value even at the end of life. INEX's dedication to sustainability is evident in our continuous efforts to improve processes and reduce our environmental footprint.



CHARACTERISTICS: ALUMINIUM & IT'S 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 2.7×10^3 kilograms per cubic metre at 20°C as compared with 7.9×10^3 for iron and 8.9×10^3 for copper.

HANDLING, STORING & MAINTENANCE

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

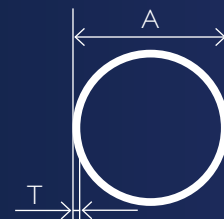
Suppliers make every effort to pack aluminium so that 'traffic marks' or 'rub marks' do not occur during shipment and that it also remains dry. All incoming shipments should be inspected promptly, since suppliers generally have a time limit in which damage claims will be honoured.

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

Water stain is a superficial condition and the mechanical properties of the metal having such stains 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.

ROUND TUBE

ALLOY 6060: 5 METRE LENGTHS



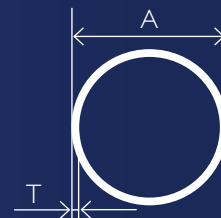
SECTION	EX STOCK	SIZE MM		KILO / METRE	PERIMETER MM
		A	T		
90001	✓	9.53	1.63	0.110	29.9
40678	*	12.00	1.20	0.110	37.7
30025	*	12.70	1.20	0.118	39.9
60191	✓	12.70	1.80	0.167	39.9
31120	✓	15.88	2.64	0.298	49.9
30068	✓	15.90	1.40	0.173	50.0
30041	✓	19.00	1.20	0.182	59.7
60056	✓	19.00	2.00	0.289	59.7
31059	✓	19.05	1.42	0.213	59.8
30666	*	20.00	1.20	0.192	62.8
60138	*	20.00	1.60	0.251	62.8
30907	✓	22.23	1.42	0.251	69.8
60073	*	25.00	1.20	0.243	78.5
30324	✓	25.00	2.00	0.392	78.5
30053	✓	25.00	3.00	0.562	78.5
30014	*	25.40	1.42	0.290	79.8
30015	*	25.40	1.60	0.324	79.8
10665	*	30.00	3.00	0.690	94.2
30028	*	31.80	1.40	0.362	99.9
30237	✓	32.00	3.00	0.741	100.5
60086	*	33.00	4.20	1.030	103.7
90011	*	34.93	1.42	0.405	109.7
30226	✓	38.00	3.00	0.894	119.4
10167	✓	38.10	1.42	0.443	119.7
60189	✓	40.00	3.00	0.945	125.7
90012	*	40.00	4.00	1.226	125.7
60049	✓	44.45	3.00	1.059	139.6
60176	*	44.45	2.50	0.893	139.6
60206	*	48.00	2.50	0.968	150.8

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

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

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

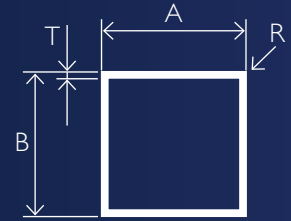
ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM		KILO / METRE	PERIMETER MM
		A	T		
31106	✓	48.40	4.45	1.665	152.1
90008	*	48.41	4.47	1.666	152.1
30908	✓	50.00	1.60	0.659	157.1
30030	✓	50.00	2.00	0.817	157.1
30238	✓	50.00	3.00	1.200	157.1
60314	*	50.00	4.00	1.567	157.1
60042	✓	50.00	6.50	2.407	157.1
90089	*	60.00	2.00	0.986	188.5
90489	*	60.00	5.00	2.341	188.5
30909	✓	63.50	3.00	1.545	199.5
60030	*	63.50	5.00	2.490	199.5
90013	*	63.50	1.63	0.859	199.5
60194	✓	65.00	3.00	1.584	204.2
30658	✓	65.00	5.00	2.554	204.2
30745	✓	65.00	6.00	3.014	204.2
60015	✓	75.00	3.00	1.839	235.6
30746	✓	76.00	6.35	3.776	239.4
90065	*	76.20	2.03	1.282	239.4
60000	*	76.20	3.25	2.019	239.4
30477	✓	80.00	2.00	1.328	251.3
60023	✓	88.90	3.30	2.405	279.3
60004	*	96.50	3.00	2.388	303.2
60016	✓	100.00	3.00	2.477	314.2
30802	✓	100.00	6.00	4.802	314.2
30478	*	101.00	2.50	2.096	317.3
60019	*	105.00	3.00	2.605	329.9
60065	✓	125.00	3.00	3.116	392.7
90171	✓	150.00	3.50	4.349	471.0

SQUARE TUBE

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO / METRE	PERIMETER MM
		A	B	T	R (E / I)		
60213	*	11.00	11.00	1.30	0.50	0.136	43.1
60055	*	12.00	12.00	1.20	0.20	0.140	47.7
60029	*	12.70	12.70	1.40	0.20	0.172	50.5
60279	*	19.00	19.00	1.20	0.20	0.231	75.7
30897	✓	19.00	19.00	1.50	0.20	0.285	75.7
60171	✓	20.00	20.00	3.00	0.30	0.553	79.5
60032	*	25.00	25.00	1.40	1.40	0.354	97.6
30019	*	25.00	25.00	1.60	0.25	0.406	99.6
30054	✓	25.00	25.00	1.80	1.60	0.447	97.3
30055	✓	25.00	25.00	3.00	0.25	0.715	99.6
60272	✓	25.00	25.00	3.00	2.50	0.701	95.7
60102	*	25.00	25.00	4.50	2.00	0.991	96.6
60183	✓	25.00	25.00	5.00	1.50	1.079	97.4
60095	*	30.00	30.00	1.60	0.30	0.492	119.5
60142	*	30.00	30.00	2.00	0.20	0.607	119.7
60128	*	30.00	30.00	3.00	2.50	0.863	115.7
60143	✓	32.20	32.20	2.00	0.20	0.655	128.5
30898	✓	32.00	32.00	3.00	0.20	0.943	127.7
30681	✓	33.90	33.90	1.45	2.50	0.498	131.3
60201	✓	35.00	35.00	2.00	0.30	0.715	139.5
60033	*	38.00	38.00	2.00	1.00	0.778	150.3
60069	*	40.00	40.00	1.60	3.00 / 1.40 (I)	0.649	154.8
60076	*	40.00	40.00	1.60	0.50	0.666	159.1
30613	✓	40.00	40.00	2.00	1.50	0.824	157.4
60116	*	40.00	40.00	2.00	3.00 / 0.50 (I)	0.803	154.8
60119	*	40.00	40.00	3.00	0.20	1.203	159.7
30229	✓	40.00	40.00	3.00	0.50	1.203	159.1
30227	✓	40.00	40.00	3.00	3.00 / 1.00 (I)	1.185	154.9
30750	✓	40.00	40.00	5.00	2.50 / 0.80 (I)	1.884	155.7
30615	*	45.00	45.00	1.80	0.30	0.843	179.5
60117	*	50.00	50.00	1.60	0.40	0.839	199.3
30614	✓	50.00	50.00	1.60	1.50 / 1.50 (I)	0.840	197.4
30682	✓	50.00	50.00	2.00	5.00 / 3.00 (I)	1.003	191.4
60270	*	50.00	50.00	2.00	1.00	1.022	194.9
30228	✓#	50.00	50.00	3.00	0.25	1.528	200.0
60035	✓#	50.00	50.00	3.00	2.50	1.514	195.7
60084	✓	50.00	50.00	5.00	4.00	2.401	193.1

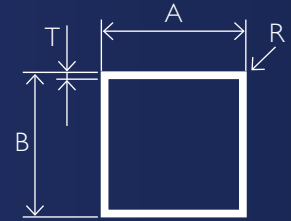
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* Mill runs only, please ask regarding the availability of these

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SQUARE TUBE

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO / METRE	PERIMETER MM
		A	B	T	R		
60187	✓	50.00	50.00	6.00	0.30	2.862	199.5
10165	*	50.80	50.80	1.63	3.18	0.851	197.7
60094	*	50.80	50.80	1.83	6.30 / 4.47 (I)	0.925	192.4
60118	*	50.80	50.80	3.00	6.35 / 3.35 (I)	1.488	192.3
60175	*	61.00	61.00	7.00	0.30	4.097	243.5
60304	✓	57.00	57.00	3.00	6.00	1.693	217.7
30694	*	60.00	60.00	1.40	0.20	0.889	239.7
90351	*	65.00	65.00	2.00	3.00	1.347	255.0
60070	✓	65.00	65.00	2.50	2.50	1.679	255.7
30899	✓	75.00	75.00	3.00	0.25	2.341	300.0
60294	*	75.00	75.00	3.00	5.00	2.293	291.4
30751	✓	75.00	75.00	4.50	0.80	3.438	298.6
60174	✓	75.00	75.00	6.00	0.30	4.487	299.5
40930	*	80.00	80.00	2.00	0.30	1.691	319.5
60111	*	90.00	90.00	6.00	0.50	5.463	359.1
30804	✓#	100.00	100.00	3.00	0.20	3.154	399.7
60281	✓	100.00	100.00	3.00	5.00 / 4.00 (I)	3.133	391.4
60064	✓	100.00	100.00	5.00	0.50	5.148	399.1
60291	✓	100.00	100.00	6.00	5.00	6.056	391.4
60275	✓#	140.00	140.00	3.00	1.00	4.453	558.3

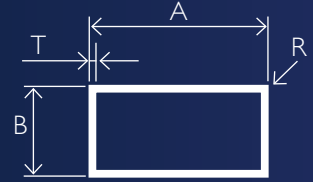
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RECTANGULAR TUBE

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO / METRE	PERIMETER MM
		A	B	T	R (E / I)		
31158	*	30.00	8.00	1.50	0.25	0.284	75.6
30071	*	30.00	12.00	2.00	0.25	0.412	83.6
60123	*	33.00	17.00	3.00	0.30	0.715	99.5
60124	*	33.00	25.00	3.00	0.30	0.845	115.5
60147	*	35.00	10.00	1.20	2.00	0.269	86.6
60071	*	38.00	25.00	1.50	3.00 / 1.50 (I)	0.472	120.8
60010	✓	38.00	25.00	2.00	3.00 / 1.50 (I)	0.624	120.8
60186	*	40.00	14.00	1.25	2.00	0.341	104.6
30901	✓	40.00	20.00	3.00	0.25	0.878	119.6
60034	✓	40.00	20.00	3.00	3.00	0.857	114.8
60134	✓	40.00	25.00	2.00	1.50	0.656	127.4
60020	*	50.00	25.00	1.60	0.30	0.622	149.5
10164	✓	50.00	25.00	2.00		0.770	150.0
30056	✓	50.00	25.00	3.00	0.25	1.122	149.6
60038	✓	50.00	25.00	3.00	3.00	1.101	144.8
60146	*	50.00	38.00	2.00	3.00	0.892	170.8
60159	*	50.00	40.00	2.00	0.20	0.932	179.7
30902	✓	50.00	40.00	3.00	0.25	1.366	179.6
30693	*	60.00	30.00	2.00	0.20	0.932	179.7
60090	✓	60.00	40.00	3.00	0.20	1.528	199.7
60295	*	60.00	40.00	3.00	5.00	1.480	191.4
30903	✓	65.00	50.00	3.00	0.25	1.772	229.6
30904	*	70.00	40.00	3.00	0.25	1.691	219.6
30752	✓	75.00	25.00	2.20	0.50	1.139	199.1
60273	✓	75.00	25.00	3.00	0.30	1.528	199.5
30947	✓	75.00	40.00	2.00	0.25	1.203	229.6
60039	✓	75.00	40.00	5.00	6.00	2.764	219.7
60047	✓	75.00	40.00	6.00	0.30	3.349	229.5
30881	✓#	75.00	50.00	3.00	0.30	1.935	249.5
60024	*	80.00	40.00	2.50	1.00	1.556	238.3
60135	*	80.00	40.00	3.00	0.20	1.853	239.7
60242	*	80.00	50.00	2.00	0.20	1.366	259.7
60036	✓#	80.00	50.00	3.00	5.00 / 2.00 (I)	1.967	251.4
90343	*	80.00	70.00	6.00	6.00	4.413	289.7
30095	✓	100.00	25.00	2.00	1.00	1.309	248.3
30905	✓	100.00	25.00	2.50	0.25	1.626	249.6
31136	✓	100.00	45.00	3.00	0.30	2.260	289.5

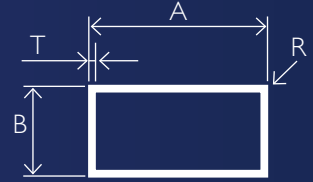
A = Width B = Height T = Thickness R = External Radii

* 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

RECTANGULAR TUBE

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO / METRE	PERIMETER MM
		A	B	T	I/E		
60271	*	100.00	45.00	4.00	2.00	2.961	286.6
10166	✓	100.00	50.00	2.00		1.583	300.0
60037	✓#	100.00	50.00	3.00	4.00 / 1.00 (I)	2.307	293.1
30231	✓#	100.00	50.00	3.00		2.341	300.0
60262	✓	100.00	50.00	4.00	0.50	3.078	299.1
90344	*	100.00	50.00	5.00	6.00	3.713	289.0
30230	✓	100.00	50.00	6.00	1.50	4.483	297.4
33384	*	100.00	55.00	1.60	2.00	1.313	307.8
60178	*	125.00	25.00	3.50	0.30	2.712	299.5
90078	*	125.00	40.00	3.00		2.585	330.0
60163	*	125.00	50.00	1.50	0.50	1.398	349.1
31148	*	125.00	50.00	1.90	0.25	2.034	349.6
60311	*	125.00	50.00	4.00	4.00	3.583	343.1
60297	✓	125.00	65.00	5.00	1.00	4.876	378.3
90345	*	125.00	90.00	6.00	6.00	6.527	420.0
60027	*	140.00	50.00	6.00	0.50	5.788	379.1
30662	✓#	150.00	50.00	3.00	0.25	3.154	399.6
90133	*	150.00	50.00	5.00	5.00	4.975	382.0
60164	✓	150.00	50.00	6.00	3.00	6.093	394.8
60296	*	150.00	100.00	3.00	0.30	3.967	499.5
60096	✓	150.00	100.00	3.00	10.0 / 7.00 (I)	3.849	482.8
60097	✓	150.00	100.00	5.00	10.00 / 5.00 (I)	6.329	482.8
60126	*	180.00	90.00	5.00	1.00	7.044	538.3
31139	✓#	200.00	50.00	3.00	1.00	3.965	498.3
32981	*	225.00	50.00	3.00	2.00	4.365	546.6
90041	✓#	250.00	50.00	3.00	0.20	4.780	599.7
90137	✓#	300.00	50.00	3.50	0.50	6.507	700.0

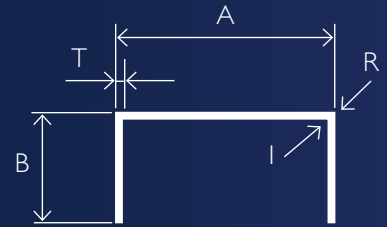
A = Width B = Height T = Thickness R = External Radii

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

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CHANNEL

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO / METRE	PERIMETER MM
		A	B	T	R (E / I)		
30910	*	9.50	9.50	1.60	0.25	0.109	53.2
60232	✓	10.30	15.00	1.50	0.30	0.151	76.8
30911	*	12.70	12.70	2.40	0.25	0.216	70.8
60103	*	17.20	12.10	3.10	0.25	0.295	76.0
60088	*	17.50	25.00	2.00/2.5	0.20	0.361	129.8
60209	*	18.00	12.00	3.00	0.30	0.292	77.20
90127	✓	20.00	20.00	3.00		0.437	114.0
60137	*	20.50	20.00	2.00	0.20	0.306	116.5
30912	✓	25.00	25.00	1.60	0.25	0.311	146.2
30376	✓	25.00	25.00	3.00		0.561	144.0
30242	✓	25.00	50.00	2.00	0.30	0.656	245.2
30913	✓	25.00	50.00	3.00	0.25	0.967	243.4
30914	✓	30.00	25.00	3.00	0.25	0.601	153.4
30243	*	30.00	50.00	2.00	0.30	0.683	255.2
60156	*	32.00	12.00	3.00	0.20	0.406	105.5
60017	*	32.00	25.00	3.00	0.30	0.618	157.2
60141	*	32.00	32.00	3.00	0.20	0.731	185.5
60148	*	35.00	35.00	1.60	0.20	0.441	206.3
31055	✓	36.00	36.00	2.50	0.20	0.698	210.5
90146	✓	40.00	12.00	3.00		0.472	122.0
60288	*	40.00	20.00	1.60	0.20	0.333	156.3
90147	*	40.00	20.00	3.00		0.599	154.0
30896	✓	40.00	25.00	3.00	0.25	0.683	173.4
60018	✓	45.00	25.00	3.00	0.30	0.723	183.2
30946	*	46.50	40.00	3.00	0.25	0.979	246.4
30797	✓	50.00	16.00	3.00	0.30	0.618	157.2
30900	✓	50.00	25.00	3.00	0.25	0.764	193.4
31138	*	50.00	30.00	1.60	0.30	0.463	216.0
60217	✓	50.00	50.00	3.00	0.30	1.171	293.5
60081	✓	54.20	25.00	1.60	1.0 / 0.30	0.434	203.7
60259	*	55.00	55.00	3.00	0.30	1.292	323.2
60177	✓	75.00	25.00	3.00	0.30	0.967	243.2
31137	*	75.00	30.00	1.50	0.30	0.536	266.2
60313	*	75.00	40.00	3.00	1.00	1.208	301.4
30602	✓	75.00	40.00	4.50	0.50 / 7.5	1.845	293.3
60300	✓	75.00	40.00	6.00	0.30	2.325	297.2
31033	*	76.00	33.00	8.0/6.0	0.50	2.406	270.7
31061	*	90.00	12.00	3.00	0.30	0.878	221.2

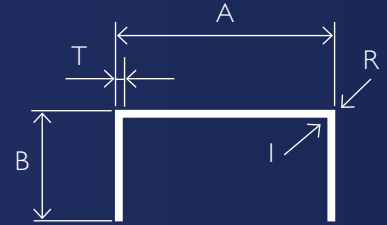
A = Width B = Height T = Thickness R = External Radii

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

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

CHANNEL

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO/METRE	PERIMETER MM
		A	B	T	I/E		
60166	*	90.00	25.00	5.00	2.50	1.754	267.0
60231	*	90.00	75.00	8.00	0.30	4.856	463.2
60196	*	94.00	75.00	6.00	0.30	3.772	475.2
30923	✓	100.00	25.00	3.00	0.25	1.170	293.4
60203	✓	100.00	50.00	3.00	0.30	1.577	393.2
60172	✓	100.00	50.00	4.50	0.30	2.329	390.2
90019	✓	100.00	50.00	6.00	0.8 (I)	3.046	387.0
60136	*	150.00	75.00	2.50	0.30	1.998	594.2
90047	✓	150.00	75.00	3.50	0.40	2.768	592.0
90196	*	150.00	75.00	5.00		3.915	590.0
60192	✓	150.00	75.00	6.00	0.50	4.862	586.7
60234	*	150.00	75.00	6.00/8.00	0.50	5.430	586.7
90064	*	203.20	63.50	4.75		4.113	650.9

U CHANNEL ALLOY 6060: 5 METRE LENGTHS

SECTION	EX STOCK	SIZE MM			RADII MM	KILO/METRE	PERIMETER MM
		A	B	T	I/E		
60298	*	35.00	50.00	3.000	0.30	0.937	236.1
60051	✓	40.00	30.00	3.000		0.727	159.7
60190	*	40.00	35.00	6.000	0.30	1.356	178.3
60306	✓	50.00	35.00	4.000		1.114	190.1
60052	✓	60.00	45.00	5.000		1.712	240.3
90122	*	75.00	55.00	6.000		2.490	296.0

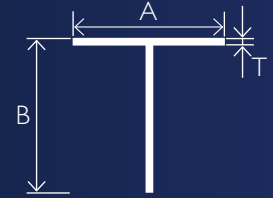
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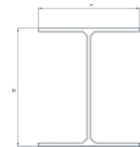
TEE/I BEAM/TOP HAT

ALLOY 6060: 5 METRE LENGTHS



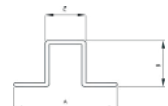
SECTION	EX STOCK	SIZE MM			KILO / METRE	PERIMETER MM
		A	B	T		
90043	*	25.0	25.0	1.6	0.209	100
60031	✓	25.0	25.0	3.0	0.382	100
31000	✓	40.0	40.0	3.0	0.626	159.7
31102	✓	40.0	50.0	6.0	1.366	179.2
90096	*	44.4	25.4	2.5	0.456	136
60207	*	50.0	22.0	3.0	0.561	143.4
90104	✓	50.0	50.0	3.0	0.789	200
60188	✓	50.0	50.0	6.0	1.528	199.2
60211	✓	50.0	75.0	6.0	1.977	244.1
60170	✓	50.0	100.0	6.0	2.341	299.2
60080	*	50.0	150.0	8.0	4.162	399.2
60072	*	65.0	65.0	6.0	2.016	259.2
60181	*	75.0	125.0	10.0	5.149	399.2
90016	*	100.0	65.0	5.0	2.168	330
60003	*	100.0	80.0	5.0/7.0	2.777	359.2
60210	*	100.0	90.0	10.0	4.878	379.2

I BEAM: ALLOY 6060



SECTION	EX STOCK	SIZE MM			RADIUS	KILO / METRE	PERIMETER MM
		A	B	T			
60197	*	90.0	108.0	3.000	-	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
60127	*	140.0	35.0	57.0	2.0/2.5/3.2	0.80/5.0	1.270	366.7

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ALLOY 6060: 5 METRE LENGTHS



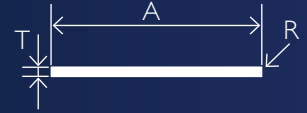
SECTION	EX STOCK	SIZE MM		RADII MM	KILO/METRE	PERIMETER MM
		A	T	R		
60007	✓	12.00	3.00	0.25	0.097	29.6
60050	*	12.00	6.00	0.20	0.195	35.7
60098	*	14.00	8.00	0.20	0.303	43.7
30569	✓	15.00	3.00	0.30	0.122	35.5
30036	✓	19.00	3.00	0.80	0.153	42.6
30290	✓	19.00	4.50		0.232	47.0
30291	✓	19.00	6.00		0.309	50.0
30276	*	20.00	3.00	FULL RADIUS	0.157	43.4
60082	*	20.00	4.00	0.30	0.216	47.5
60112	*	22.50	6.00	FULL RADIUS	0.345	51.8
30591	✓	25.00	1.60	0.20	0.108	52.9
31085	*	25.00	2.50	0.50	0.169	54.1
30311	✓	25.00	3.00	0.20	0.203	55.7
30292	✓	25.00	4.50		0.305	59.0
60155	*	25.00	5.00	0.20	0.339	59.7
30293	✓	25.00	6.00		0.406	62.0
30294	✓	25.00	9.00		0.610	68.0
60145	*	25.00	10.00	FULL RADIUS	0.619	61.4
30577	✓	25.00	12.00	0.30	0.813	73.5
30981	*	27.00	3.00	0.20	0.220	59.7
31039	*	30.00	3.00	FULL RADIUS	0.239	63.4
60214	*	30.00	4.00	2.00	0.316	64.6
60202	✓	30.00	6.00	0.30	0.488	71.5
60205	*	30.00	12.00	0.30	0.975	83.5
30295	✓	32.00	3.00		0.260	70.0
30578	✓	32.00	4.50	0.30	0.390	72.5
60302	✓	32.00	10.00	0.30	0.867	83.5
60152	*	33.00	8.00	FULL RADIUS	0.678	75.1
30579	*	38.00	3.00	0.30	0.309	81.5
30580	✓	38.00	4.50	0.30	0.463	84.5
60149	*	38.00	7.50	0.20	0.772	90.7

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

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ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM		RADII MM	KILO / METRE	PERIMETER MM
		A	T	R		
30297	✓	38.00	9.00		0.927	94.0
30001	✓	40.00	3.00	FULL RADIUS	0.320	83.4
60179	✓	40.00	3.00	0.30	0.325	85.5
60040	✓	40.00	6.00	0.30	0.650	91.5
60182	✓	40.00	10.00	0.30	1.084	99.5
60305	✓	40.00	12.00	0.30	1.301	103.5
60167	*	45.00	5.00	0.30	0.610	99.5
60063	*	50.00	1.60	0.20	0.216	102.7
30581	✓	50.00	3.00	0.30	0.406	105.5
30298	✓	50.00	4.50		0.610	109.0
30075	✓	50.00	6.00	0.25	0.813	111.6
60303	✓	50.00	8.00	0.30	1.084	115.5
30076	✓	50.00	10.00	0.25	1.355	119.6
30299	✓	50.00	12.00		1.626	124.0
90038	✓	50.00	20.00		2.710	140.0
30300	✓	50.00	25.00		3.387	150.0
30099	*	55.00	2.05		0.306	114.1
60028	✓	60.00	3.00	0.50	0.487	125.1
60043	*	60.00	5.00	FULL RADIUS	0.798	125.7
60299	✓	60.00	6.00	0.25	0.975	131.6
30640	✓	60.00	10.00	0.30	1.626	139.5
30516	✓	65.00	6.00	0.20	1.057	141.7
10727	*	68.00	3.00		0.553	142.0
60058	*	74.50	2.50	0.30	0.505	153.5
31114	*	75.00	1.60	0.30	0.325	152.7
60195	*	75.00	2.00	0.30	0.406	153.5
30301	✓	75.00	3.00		0.610	156.0
30078	✓	75.00	6.00	0.25	1.219	161.6
30934	✓	75.00	10.00	0.25	2.032	169.6
30456	✓	75.00	12.00	0.30	2.439	173.5
30583	✓	75.00	20.00	0.30	4.065	189.5
60046	*	80.00	1.40	0.30	0.303	162.3
30772	*	80.00	1.50	0.25	0.325	162.6
60044	*	80.00	6.00	FULL RADIUS	1.280	166.8
60274	*	80.00	8.00	0.30	1.734	175.5
60161	*	90.00	2.50	0.30	0.609	184.5
31116	*	90.00	12.00	0.30	2.927	203.5

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM		RADII MM	KILO/METRE	PERIMETER MM
		A	T			
60219	*	94.20	2.50	0.30	0.638	192.9
30838	*	100.00	1.60	0.50	0.433	202.3
60160	*	100.00	2.00	0.30	0.542	203.5
30302	✓	100.00	3.00		0.813	206.0
30518	✓	100.00	5.00	0.50	1.354	209.1
30077	✓	100.00	6.00	0.25	1.626	211.6
30490	✓	100.00	10.00	0.50	2.710	219.2
30303	✓	100.00	12.00		3.252	224.0
30304	✓	101.60	9.00		2.478	221.2
60220	*	102.50	2.50	0.30	0.694	209.5
60059	*	102.50	2.50	0.30	0.694	209.5
60257	*	112.00	2.50	0.30	0.759	228.5
60162	*	112.00	3.00	0.30	0.910	229.5
60060	*	116.50	2.50	0.30	0.789	237.5
60002	✓	125.00	6.00	0.30	2.032	261.5
60125	✓	125.00	10.00	0.30	3.387	269.5
60061	*	126.00	2.50	0.30	0.853	256.5
60074	*	143.50	3.00	0.30	1.166	292.5
60083	*	150.00	1.60	FULL RADIUS	0.649	301.8
60011	*	150.00	2.00	0.50	0.812	303.1
60025	✓	150.00	5.00	0.30	2.032	309.5
30709	✓	150.00	10.00	0.20	4.065	319.7
30805	✓	150.00	12.00	0.20	4.878	323.7
30826	*	165.00	8.00	0.30	3.577	345.5
60151	✓	200.00	10.00	0.20	5.420	419.7
30584	✓	200.00	12.00	0.30	6.504	423.5

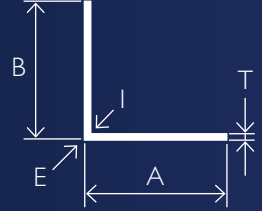
A = Width B = Height T = Thickness R = External Radii

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EQUAL ANGLE

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO / METRE	PERIMETER MM
		A	B	T	R (E / I)		
60048	✓	12.00	12.00	1.50	0.30 (E)	0.091	47.4
60041	*	12.00	12.00	1.60	0.30 (E)	0.097	47.4
90512	*	12.00	12.00	3.00		0.170	48.0
90025	✓	16.00	16.00	1.60		0.132	64.0
60091	*	20.00	20.00	1.40	0.20 (E)	0.146	79.6
10160	✓	20.00	20.00	1.60		0.166	80.0
30892	✓	20.00	20.00	3.00	0.20 (E)	0.301	79.6
60008	*	25.00	25.00	1.40	0.30 (E)	0.184	99.4
10159	✓	25.00	25.00	1.60		0.210	100.0
30079	✓	25.00	25.00	3.00		0.382	99.5
30884	*	30.00	30.00	2.00	0.30 (E)	0.314	119.4
30249	✓	30.00	30.00	3.00		0.463	120.0
90524	*	30.00	30.00	6.00	0.40 (E)	0.878	120.0
60005	✓	32.00	32.00	1.60	0.30 (E)	0.270	127.4
60006	*	32.00	32.00	3.00	0.30 (E)	0.496	127.4
60045	*	40.00	40.00	1.40	0.30 (E)	0.298	159.4
30893	✓	40.00	40.00	1.60	0.20 (E)	0.304	159.6
60079	*	40.00	40.00	2.00	0.50 (E)	0.422	158.9
30080	✓	40.00	40.00	3.00		0.626	159.5
30415	✓	40.00	40.00	4.50	0.50 (E)	0.921	159.6
60144	✓	40.00	40.00	6.00	0.20 (E)	1.203	159.6
60067	✓	50.00	50.00	1.60	0.30 (E)	0.426	199.4
30232	✓	50.00	50.00	3.00		0.789	200.0
30082	✓	50.00	50.00	4.50	1.00 (I)	1.165	199.0
30081	✓	50.00	50.00	6.00		1.528	199.5
60301	✓	60.00	60.00	3.00		0.951	239.4
30629	✓	65.00	65.00	6.00	0.20 (E)	2.016	259.6
60261	*	68.00	68.00	3.00	0.30 (E)	1.081	271.4
60218	✓	75.00	75.00	3.00	0.30 (E)	1.195	299.6
30742	✓	75.00	75.00	4.50	0.30 (E)	1.774	299.4
30336	✓	75.00	75.00	6.00		2.341	300.0
60168	✓	100.00	100.00	3.00	0.30 (E)	1.601	399.4
60153	✓	100.00	100.00	6.00	0.30 (E)	3.154	399.4
20001	✓	100.00	100.00	10.00	5.00 (E)	5.134	397.9

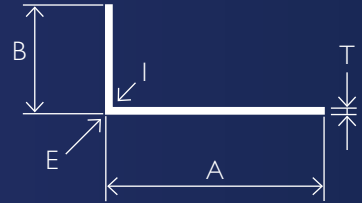
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Other stock lengths available in this size. If the product you require is not listed please enquire

UNEQUAL ANGLE

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	SIZE MM			RADII MM	KILO/METRE	PERIMETER MM
		A	B	T	I/E		
60092	*	20.00	12.00	1.40	0.20 (E)	0.115	63.6
30871	✓	20.00	12.00	1.60	0.30 (E)	0.131	63.4
60216	*	20.00	16.00	3.00	0.30 (E)	0.268	71.4
60093	*	25.00	12.00	1.40	0.20 (E)	0.134	73.6
10161	✓	25.00	12.00	1.60		0.153	74.0
60139	✓	25.00	12.00	3.00	0.20 (E)	0.276	73.6
30020	✓	25.00	20.00	1.40	0.20 (E)	0.165	89.4
60165	*	25.00	20.00	3.00	0.30 (E)	0.341	89.4
60198	*	25.00	30.00	1.60	0.50 (E)	0.231	108.9
60062	*	30.00	20.00	1.30	0.30 (E)	0.171	99.4
30922	*	32.00	19.00	3.00	0.20 (E)	0.390	101.6
60009	*	32.00	20.00	1.40	0.30 (E)	0.192	103.4
60121	*	32.00	20.00	1.40	0.20 (E)	0.192	103.6
30671	✓	32.00	20.00	1.50	0.20 (E)	0.205	103.6
60241	*	32.00	25.00	3.00	0.30 (E)	0.439	113.6
30489	*	35.00	10.00	3.00	0.20 (E)	0.341	89.6
60089	*	38.00	30.00	2.40	0.30 (E)	0.426	135.4
60113	*	40.00	10.00	3.00	0.50 (E)	0.381	98.9
60283	*	40.00	12.00	3.00	0.25 (E)	0.398	103.5
20494	*	40.00	18.00	1.50	0.20 (E)	0.230	115.6
10162	✓	40.00	20.00	1.50		0.238	120.0
60085	✓	40.00	20.00	5.00	FULL RADIUS	0.727	114.6
60114	*	40.00	25.00	1.40	0.20 (E)	0.241	129.6
90075	*	40.00	25.00	1.60		0.275	130.0
30664	✓	40.00	25.00	3.00	0.20 (E)	0.504	129.6
60087	*	50.00	25.00	1.40	0.20 (E)	0.279	149.6
10163	✓	50.00	25.00	1.60		0.318	150.0
30895	✓	50.00	25.00	3.00	0.20 (E)	0.585	149.6
60173	✓	50.00	40.00	5.00	0.20 (E)	1.152	179.6
60158	*	60.00	40.00	3.00	0.30 (E)	0.788	199.4
60115	*	70.00	25.00	1.40	0.40 (E)	0.355	189.1
60200	*	70.00	25.00	1.50	0.30 (E)	0.380	189.4
60256	✓	75.00	25.00	1.50	0.30 (E)	0.400	199.4
30573	✓	75.00	25.00	3.00	0.20 (E)	0.789	199.6

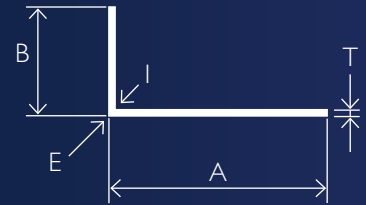
A = Width B = Height T = Thickness R = External Radii

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

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

UNEQUAL ANGLE

ALLOY 6060: 5 METRE LENGTHS

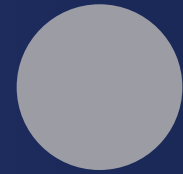


SECTION	EX STOCK	SIZE MM			RADII MM	KILO / METRE	PERIMETER MM
		A	B	T	R (E / I)		
30592	✓	75.00	50.00	3.00	0.50 (E)	0.991	248.9
30806	✓	75.00	50.00	4.50	0.20 (E)	1.469	249.6
31040	✓	75.00	50.00	6.00	0.30 (E)	1.935	249.4
60100	*	92.00	20.00	3.00	0.20 (E)	0.886	223.6
60260	✓	100.00	25.00	3.00	0.50 (E)	0.991	248.9
30642	✓	100.00	50.00	2.00	0.30 (E)	0.802	299.4
30088	✓	100.00	50.00	3.00		1.195	299.5
30509	✓	100.00	50.00	6.00	0.50 (E)	2.341	298.9
60066	✓	100.00	75.00	6.00	0.50 (E)	2.747	348.9
90407	*	100.00	75.00	8.00		3.621	350.0
60282	*	100.00	75.00	12.00	0.25 (E)	5.301	349.5
60185	*	125.00	75.00	5.00	0.30 (E)	2.642	399.4
60199	*	130.00	50.00	2.00	0.30 (E)	0.964	359.4
60258	*	130.00	37.00	8.00	0.30 (E)	3.447	333.4
60101	✓	150.00	75.00	6.00	0.30 (E)	3.561	449.4
60240	✓	150.00	75.00	8.00	0.30 (E)	4.704	449.4
60284	✓	150.00	100.00	3.00	0.25 (E)	2.008	499.5
30696	✓#	160.00	40.00	1.80	0.20 (E)	0.965	398.4

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

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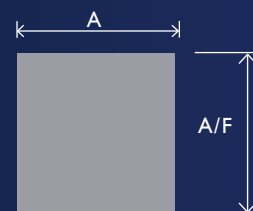


ALLOY 6060: 6061

SECTION	EX STOCK	SIZE MM	KILO/ METRE	PERIMETER MM
D				
90061	*	6.35	0.086	19.95
31088	✓	9.53	0.193	29.90
90088	✓	12.70	0.342	39.90
90158	✓	16.00	0.545	50.30
90058	✓	19.05	0.769	59.85
90169	*	20.00	0.851	62.80
60110	*	25.00	1.330	78.40
90063	✓	25.40	1.375	79.80
90307	*	30.00	1.916	94.48
90123	✓	31.75	2.138	99.75
90111	✓	38.10	3.078	119.69
90161	✓	50.80	5.472	159.59
90040	*	63.50	8.551	199.49
90048	*	75.00	11.972	235.70

SQUARE BAR

ALLOY 6060: 6061

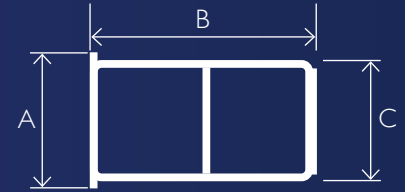


SECTION	EX STOCK	SIZE MM	KILO / METRE	PERIMETER MM
D				
90068	*	12.70	0.435	50.08
90115	*	19.05	0.980	76.20
30519	✓	20.00	1.084	79.70
90060	*	25.40	1.741	101.60
60122	✓	26.00	1.832	103.70
90149	*	31.75	2.721	127.00
90010	✓	38.10	3.919	152.40
90097	*	50.00	6.750	200.00

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

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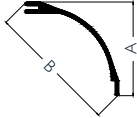
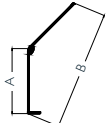

SECTION	EX STOCK	PRODUCT	SIZE MM			LENGTH MM	KILO / METRE	PERIMETER MM	ALLOY
			A	B	C				
CHASSIS RAIL									
90021	* * ✓		106.0	179.0	90.0	5.4M 7.0M	9.624	555.7	6005A/ T5
CHASSIS RAIL									
90028	✓ ✓		150.0	230.0	111.0	7.4M 8.7M	16.034	742.26	6005A/ T5
COAMING									
90347	* ✓ ✓		82.75	215.55	118.5	7.3M 8.4M	7.298	918.1	6351/T5
COVING									
90215	*		273.0	178.0			8.637	821.3	6351/T5
CANT RAIL									
90302	*		133.36	130.18			2.048	564.35	6060/T5
CANT & DRIP									
90303	*		131.75	135.69			2.317	648.84	6060/T5
RAMP FRAME									
90002	*		150.0	75.0	6.00/3.0		4.255	523.2	6082 /T6
HUCK RAIL									
90322	*		100.0	4.0			1.232		6061/T5

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

TRANSPORT

SECTION	EX STOCK	PRODUCT	SIZE MM			LENGTH MM	KILO / METRE	PERIMETER MM	ALLOY
			A	B	C				
60021	*	TRANSPORT FRAME 	125.0	174.69			3.252	440.8	6060/T5
60022	*	TRANSPORT FRAME 	100.0	183.74			1.917	436.9	6060/T5
90042	*	PLANKING 	228.6	12.7			1.561		6063/T6

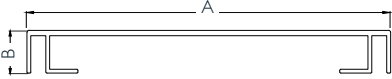
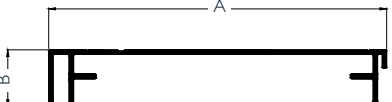
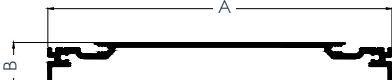
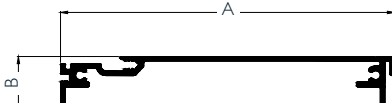
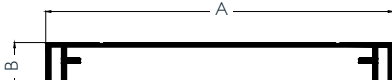
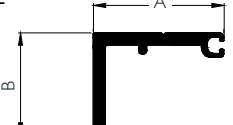
A = Width B = Height T = Thickness R = External Radii

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

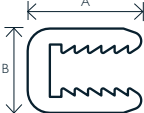
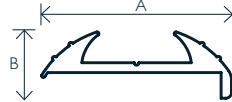
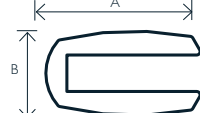
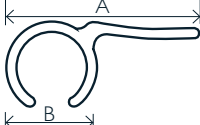
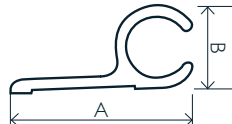

Other stock lengths available in this size. If the product you require is not listed please enquire

ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	PRODUCT	SIZE MM		KILO / METRE	PERIMETER MM
			A	B		
31018	✓	FRAME 	170	20	1.619	534.8
60105	*	FRAME 	149	25	1.306	484.5
60106	*	FRAME 	182	22	1.802	556.2
60107	*	FRAME 	140	25	1.295	458
60108	*	FRAME 	200	25	2.206	615.7
60109	*	FRAME 	32	25	0.453	131.4

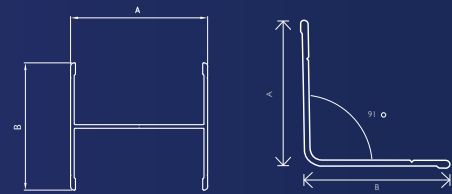
ALLOY 6060: 5 METRE LENGTHS

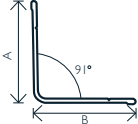
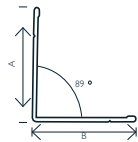
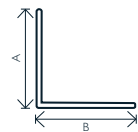

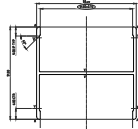
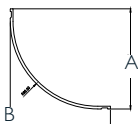


SECTION	EX STOCK	PRODUCT	SIZE MM			KILO/METRE	PERIMETER MM
			A	B	T		
31293	✓	PERSPEX CAP 	12.8	9.5	-	0.183	73.3
60150	✓	HERZIM 	33.02	12.06	-	0.267	103.9
31002	✓	WINDSCREEN 	22.0	12.0	-	0.373	97.2
60104	✓	AWNING TRACK 	29.8	14.0	-	0.217	102.9
60233	✓	AWNING TRACK 	27.95	12.7	-	0.229	95
90301	✓	DRIP MOULD 	24.0	12.5	-	0.148	76

A = Base B = Leg T = Thickness

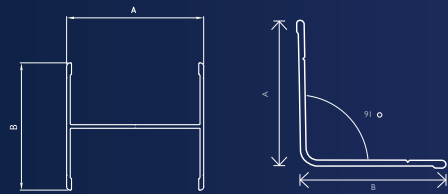
* Mill runs only, please ask regarding the availability of these
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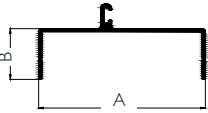

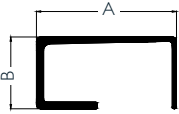
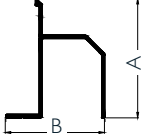
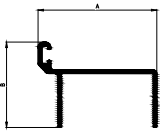
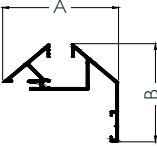
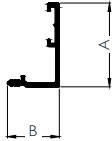
ALLOY 6060: 5 METRE LENGTHS



SECTION	EX STOCK	PRODUCT	SIZE MM		KILO / METRE	PERIMETER MM
			A	B		
60053	*	ANGLE 	38	38	0.302	149.3
60054	*	ANGLE 	40	40	0.323	159.6
60079	*	ANGLE 	40	40	0.422	158.9
60081	✓	CHANNEL 	54.2	25	0.434	203.7
60212	*	I BEAM 	55	51	0.646	311.2
90253	*	COVING 	91.5	91.5	0.944	302
60227	*	150 DOOR CHANNEL 	168	25	1.223	436.9
60226	*	150 CHANNEL 	155	25	1.086	404.7

ALLOY 6060: 5 METRE LENGTHS



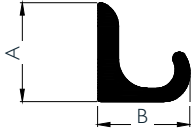
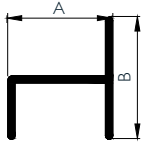
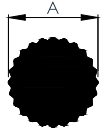
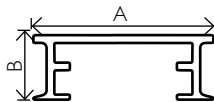
SECTION	EX STOCK	PRODUCT	SIZE MM		KILO / METRE	PERIMETER MM
			A	B		
		100 CHANNEL				
60225	*		105	25	0.815	304.7
		100 DOOR JAMB				
60224	*		105	32	1.046	388.9
		100 DOOR CHANNEL				
60223	*		117	25	0.904	334.2
		SLIDING DOOR TRACK				
60222	*		97.5	50	2.509	452.1
		CHAIR FRAME				
60221	*		65	54	0.802	313.9
		50MM DOOR JAMB				
60228	*		66.1	47.5	0.803	308.9
		50MM C/R WINDOW FRAME				
60229	*		59	50	0.711	355.8
		C/R WINDOW FRAME BEAD				
60230	*		30.2	18.7	0.22	118.9

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: SUNDRY SECTIONS

SECTION	EX STOCK	PRODUCT	SIZE MM		KILO / METRE	PERIMETER MM
			A	B		
60193	*	DOOR HANDLE 	23.8	22.2	0.550	97.2
60013	*	H SECTION 	21.5	25	0.227	113.6
60001	*	SERRATED BAR 	16		0.515	54.9
60157	*	DIN RAIL 	35.2	13	0.382	147.8

ALLOY 6060: SUNDRY SECTIONS

SECTION	EX STOCK	EXTRUSIONS	SIZE MM				KILO/WEIGHT	PERI MM
			A	B	C	T		
60237	✓	3MM PANEL CAP 	21	6.2		1.2	0.105	67.5
60238	✓	4MM PANEL CAP 	21	7.1		1.2	0.108	69.2
60239	✓	4MM PANEL JOINTER 	30	7.1		1.2	0.162	102.7
60057	*		26.50	13.00	16.50	1.50	0.213	106.9
60289	*		20.00			4.50	0.238	46.9
60308	*		29.50	15.00		1.80	0.336	76.6
60208	✓		25.00	30.00	25.00	3.00	0.601	153.4

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

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

ALLOY 5005: 5052

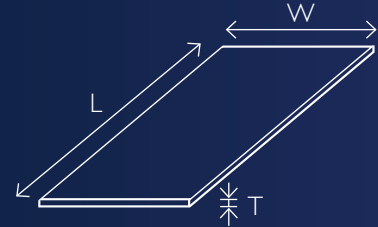


EX STOCK	THICKNESS MM	WIDTH MM	ALLOY TYPE	TEMPER	KILO/LINEAL METRE
*	0.3	1190	3003	H16	0.974
✓	0.7	1200	5005	H32	2.268
*	0.9	900	5005	H32	2.187
✓	0.9	1200	5005	H32	2.916
✓	1.2	1200	5005	H32	3.888
✓	1.5	1200	5005	H32	4.86
*	2.0	1200	5005	H32	6.48
*	2.5	1200	5005	H32	8.10
*	3.0	1200	5005	H32	9.72
*	3.0	1500	5005	H32	12.15
*	0.9	610	5052	H34	1.471
*	0.9	940	5052	H34	2.267
*	0.9	1220	5052	H34	2.942
*	1.2	1200	5052	H32	3.859
*	1.5	1200	5052	H32	4.824
*	2.0	1200	5052	H32	6.432
*	2.0	1500	5052	H34	8.04
*	2.5	1200	5052	H32	8.04
*	3.0	1200	5052	H32	9.648
*	0.7	940	ROOFING 5052	H36	1.763
*	0.7	1220	ROOFING 5052	H36	2.288
*	0.9	940	ROOFING 5052	H36	2.267
✓	0.9	1220	ROOFING 5052	H36	2.942
✓	0.9	2450	ROOFING 3003	H16	6.019
*	0.7	1200	STUCCO 5005	H32	2.268
✓	0.9	1200	STUCCO 5005	H32	2.916
*	1.2	1200	STUCCO 5005	H32	3.888
*	1.5	1200	STUCCO 5005	H32	4.86

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

CIRCLES AVAILABLE ON REQUEST

ALLOY 5005



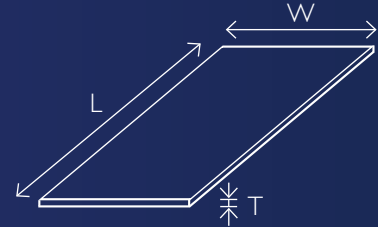
EX STOCK	THICKNESS MM	WIDTH MM	LENGTH MM	ALLOY TYPE	TEMPER	KILO/SHEET
	T	W	L			
*	0.45	900	2400	3003	H12	2.65
*	0.55	900	2400	3003	H12	3.24
*	0.55	1200	2400	3003	H12	4.32
*	0.55	1200	2400	5005	H32	4.27
*	0.7	900	2400	5005	H32	4.08
✓	0.7	1200	2400	5005	H34	5.44
*	0.7	1200	3000	5005	H34	6.80
✓	0.9	900	2400	5005	H34	5.24
✓	0.9	1200	2400	5005	H32	7.00
✓	0.9	1200	2400	5005	H34	7.00
✓	0.9	1200	3600	5005	H32	10.49
✓	1.2	1200	2400	5005	H34	9.33
✓	1.2	1200	3600	5005	H34	13.99
✓	1.2	1200	5000	5005	H34	19.44
✓	1.2	1200	6000	5005	H34	23.33
✓	1.2	1500	3000	5005	H34	14.58
✓	1.2	1500	3600	5005	H34	17.50
✓	1.5	1200	2400	5005	H32	11.66
✓	1.5	1200	3600	5005	H32	17.49
✓	1.5	1200	5000	5005	H32	24.30
✓	1.5	1200	6000	5005	H32	29.16
✓	1.5	1500	3000	5005	H32	18.22
✓	1.5	1500	3600	5005	H32	21.87
✓	2.0	1200	2400	5005	H32	15.55
✓	2.0	1200	3000	5005	H32	19.44
✓	2.0	1200	3600	5005	H32	23.33
✓	2.0	1200	5000	5005	H32	32.40
✓	2.0	1200	6000	5005	H32	38.88
✓	2.0	1500	3000	5005	H32	24.30
✓	2.0	1500	3600	5005	H32	29.16
✓	2.5	1200	2400	5005	H32	19.44
*	2.5	1500	3000	5005	H32	30.37
✓	3.0	1200	2400	5005	H32	23.33
✓	3.0	1200	3000	5005	H32	29.16
✓	3.0	1200	3600	5005	H32	34.99
✓	3.0	1500	3000	5005	H32	36.45
✓	3.0	1500	3600	5005	H32	43.74

T = Thickness W = Width L = Length

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

PLAIN SHEET

ALLOY 5052: 5083



EX STOCK	THICKNESS MM	WIDTH MM	LENGTH MM	ALLOY TYPE	TEMPER	KILO/SHEET
	T	W	L			
*	0.9	1200	2400	5052:5251	H34	6.95
✓	1.2	1200	2400	5052:5251	H32	9.26
✓	1.2	1500	3000	5052:5251	H32	14.47
*	1.5	900	2400	5052:5251	H32	8.68
✓	1.5	1200	2400	5052:5251	H32	11.58
*	2.0	900	2400	5052:5251	H32	11.58
✓	2.0	1200	2400	5052:5251	H32	15.43
✓	2.0	1500	3000	5052:5251	H32	24.12
✓	2.0	1500	3600	5052:5251	H32	28.94
*	2.5	900	2400	5052:5251	H32	14.47
✓	2.5	1200	2400	5052:5251	H32	19.29
✓	2.5	1500	3000	5052:5251	H32	30.15
✓	3.0	1200	2400	5052:5251	H32	23.15
✓	3.0	1200	4800	5052:5251	H32	46.31
✓	3.0	1200	6100	5052:5251	H32	58.85
✓	3.0	1500	2500	5052:5251	H32	30.15
✓	3.0	1500	3000	5052:5251	H32	36.18
✓	3.0	1500	3600	5052:5251	H32	43.41
✓	3.0	1500	4800	5052:5251	H32	57.88
✓	3.0	1830	6100	5052:5251	H32	89.75
*	3.0	2000	4000	5052:5251	H32	64.32
✓	3.0	1200	2400	5083	H116/321	22.98
*	3.0	1200	6100	5083	H116/321	58.41
*	3.0	1200	6500	5083	H116/321	62.24
✓	3.0	1830	6100	5083	H116/321	89.08

T = Thickness W = Width L = Length

* Please ask regarding the ex stock availability

All sheet is mill finish unless otherwise stated

Powder coating is available on request

Most of our sheet is plastic coated one side

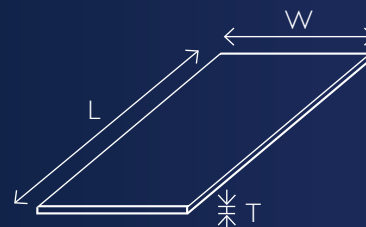
All weights shown are theoretical and the actual weight may vary

If the product you require is not listed please enquire

CIRCLES AVAILABLE ON REQUEST

STUCCO SHEET

ALLOY 5005: 1100/1200



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

T = Thickness W = Width L = Length

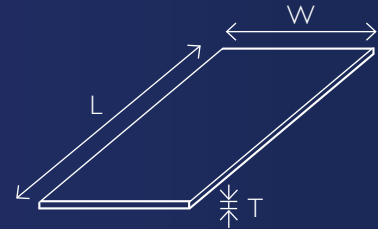
* Please ask regarding the ex stock availability

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

PLATE

ALLOY 5002: 5052



EX STOCK	THICKNESS MM	WIDTH MM	LENGTH MM	ALLOY TYPE	TEMPER	KILO/SHEET
	T	W	L			
✓	4.0	1200	2400	5005	H32	31.10
*	4.0	1200	4800	5005	H32	62.20
✓	5.0	1200	2400	5005	H32	38.88
*	5.0	1200	4800	5005	H32	77.76
✓	6.0	1200	2400	5005	H32	46.65
*	6.0	1200	4800	5005	H32	93.31
✓	4.0	1200	2400	5052	H32	30.87
*	4.0	1200	4800	5052	H32	61.74
✓	4.0	1500	3000	5052	H32	48.24
✓	4.0	1500	3600	5052	H32	57.88
✓	4.0	1500	4900	5052	H32	79.79
*	4.0	1500	5400	5052	H32	86.83
✓	4.0	1830	6100	5052	H32	119.66
✓	5.0	1200	2400	5052	H32	38.59
*	5.0	1200	4800	5052	H32	77.18
✓	5.0	1500	3000	5052	H32	60.30
✓	5.0	1500	3600	5052	H32	72.36
✓	6.0	1200	2400	5052	H32	46.31
*	6.0	1200	4800	5052	H32	92.62
✓	6.0	1500	3000	5052	H32	72.36
✓	6.0	1500	3600	5052	H32	86.83
✓	8.0	1500	3000	5052	H32	96.48
*	12.0	1200	3000	5052	H32	115.78

T = Thickness W = Width L = Length

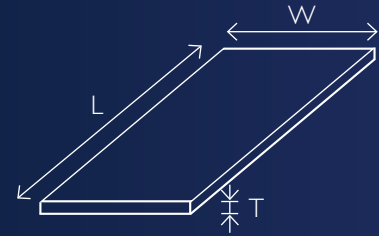
* Please ask regarding the ex stock availability

Indent available for alternative sizes and thickness

All weights shown are theoretical and the actual weight may vary

PLATE

ALLOY 5083



EX STOCK	THICKNESS MM	WIDTH MM	LENGTH MM	ALLOY TYPE	TEMPER	KILO/SHEET
	T	W	L			
✓	4.0	1200	2400	5083	H321/H116	30.64
✓	4.0	1200	4800	5083	H321/H116	61.28
✓	4.0	1200	6100	5083	H321/H116	77.88
✓	4.0	1200	8200	5083	H321/H116	104.70
✓	4.0	1830	6100	5083	H321/H116	118.77
✓	5.0	1200	2400	5083	H321/H116	38.30
✓	5.0	1200	4800	5083	H321/H116	76.60
✓	5.0	1200	6100	5083	H321/H116	97.35
✓	5.0	1830	6100	5083	H321/H116	148.46
*	5.0	2000	8000	5083	H321/H116	212.80
✓	6.0	1200	2400	5083	H321/H116	45.96
✓	6.0	1200	2500	5083	H321	47.88
*	6.0	1200	4800	5083	H321/H116	91.93
✓	6.0	1200	6100	5083	H321/H116	116.82
✓	6.0	1830	6100	5083	H321/H116	178.16
✓	6.0	1830	8000	5083	H321/H116	233.65
✓	8.0	1200	2400	5083	H321/H116	61.28
✓	8.0	1830	6100	5083	H321/H116	237.55
✓	10.0	1200	2400	5083	H321/H116	76.60
✓	10.0	1830	6100	5083	H321/H116	296.93
✓	12.0	1200	2400	5083	H321/H116	91.93
✓	12.0	1830	6100	5083	H321/H116	356.32
✓	16.0	1200	2400	5083	H321/H116	122.57
*	16.0	1830	6100	5083	H321/H116	475.10
✓	20.0	1200	2400	5083	H321/H116	153.21
✓	25.0	1200	2400	5083	H321/H116	191.52
*	32.0	1200	2400	5083	H321/H116	245.14
*	40.0	1200	2400	5083	H321/H116	306.43
*	50.0	1200	2400	5083	H321/H116	383.04
*	60.0	1200	2400	5083	H321/H116	459.65
*	80.0	1200	2400	5083	H321/H116	612.86
*	100.0	1200	2400	5083	H321/H116	766.08

MAJORITY OF THE SIZES HAVE LLOYDS OR DNV CERTIFICATION

T = Thickness W = Width L = Length

All sheet is mill finish unless otherwise stated

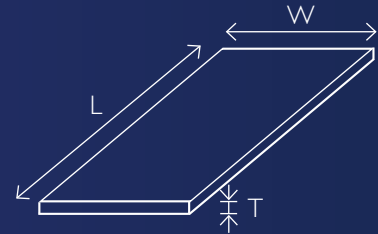
* Please ask regarding the ex stock availability

Indent available for alternative sizes and thickness

All weights shown are theoretical and the actual weight may vary

TREAD PLATE

ALLOY 5052: TREAD PLATE 5 BAR



EX STOCK	THICKNESS MM	WIDTH MM	LENGTH MM	ALLOY TYPE	TEMPER	KILO/SHEET
	T	W	L			
✓	1.6	1200	2400	5052	H114#	12.85
✓	2.0	1200	2400	5052	O	16.16
✓	3.0	1200	2400	5052	H114#	24.01
✓	3.0	1200	4800	5052	H114#	48.59
✓	3.0	1500	3600	5052	H114#	45.44
✓	3.0	1500	4500	5052	H114#	56.46
✓	3.0	1700	4000	5052	H114#	58.03
✓	4.0	1200	2400	5052	H114#	32.46
*	4.0	1200	4800	5052	H114#	69.88
✓	4.0	1500	3600	5052	O	59.15
✓	4.0	1500	4500	5052	O	74.72
✓	5.0	1200	2400	5052	H114#	39.43
✓	5.0	1500	3000	5052	O	61.79
*	5.0	1500	3600	5052	O	72.34
✓	6.0	1200	2400	5052	O	48.09
✓	6.0	1500	3000	5052	O	73.73
*	6.0	1500	3600	5052	O	91.30

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	13.40
✓	3.0	1200	2400	3003	H22	24.94

W = Width L = Length T = Thickness

All sheet is mill finish unless otherwise stated

* Please ask regarding the ex stock availability

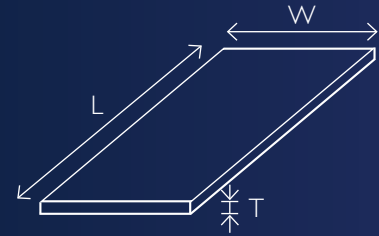
Indent available for alternative sizes and thickness

All weights shown are theoretical and the actual weight may vary

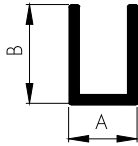
Temper may also be O or F

SECURITY GRILLE

SINGLE DIAMOND PATTERN: MILL



EX STOCK	THICKNESS MM	WIDTH MM	LENGTH MM	FINISH	KILO/SHEET
	T	W	L		
✓	7.00	750	2050	MILL	3.68
✓	7.00	920	2050	MILL	4.58
✓	7.00	1250	2050	MILL	6.33

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

SURFACE FINISHING: ANODISING



INEX ULTRA ANODISED

This is the latest international trend in surface finishing.

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

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

BENEFITS

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

SURFACE FINISHING: ANODISING

SUPER SEAL

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

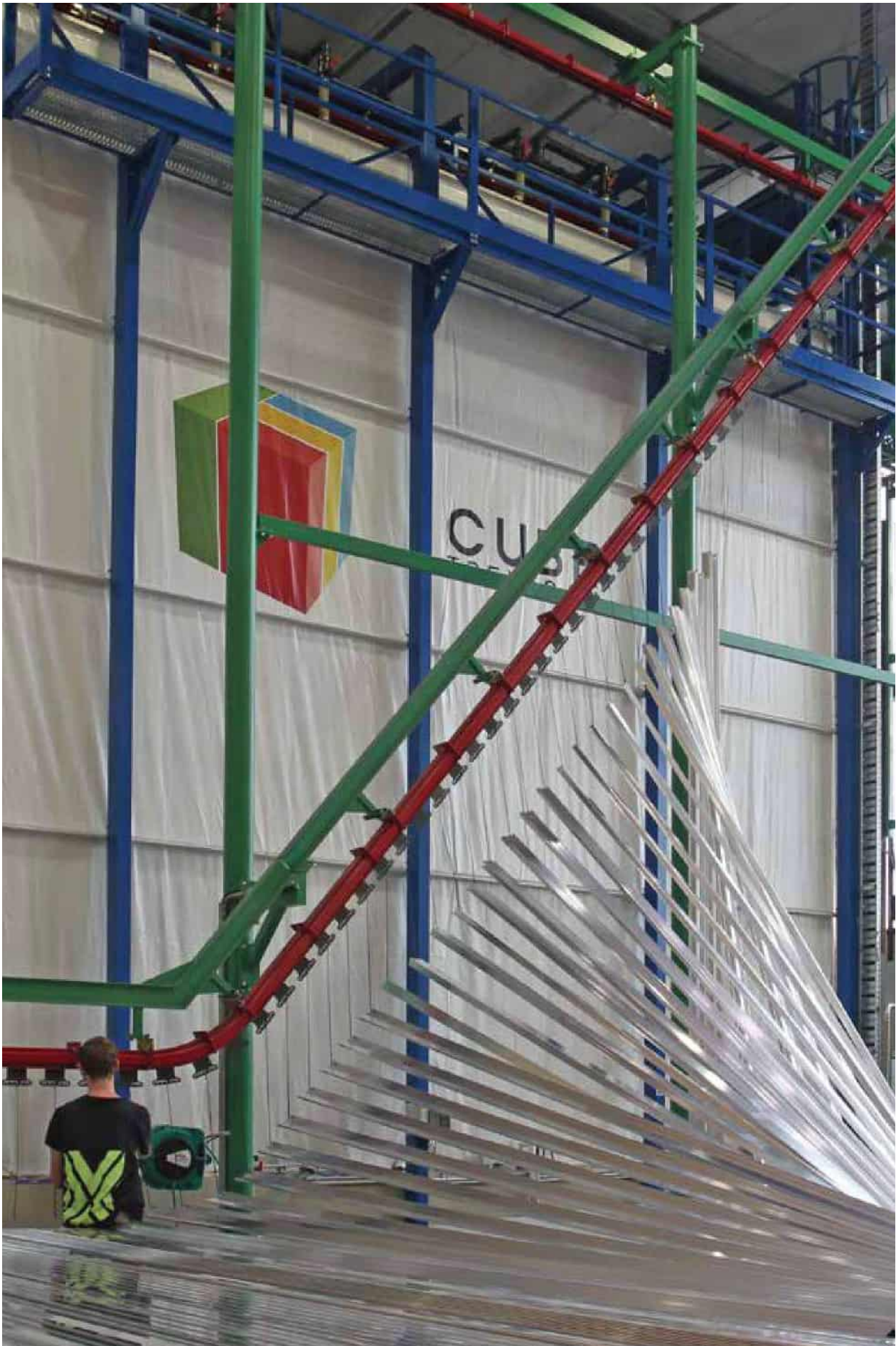
- 25 micron anodising, 20 year warranty.
- 20 micron anodising, 15 year warranty.
- 12 micron anodising, 10 year warranty.

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

INEX 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	



SURFACE FINISHING: POWDER COATING

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 powder 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 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 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. The maximum length for Wood Grain finishing is 5.0 metres, the maximum width is 1.0 metre.

MATCHING PRODUCTS TO AAMA SPECIFICATION

TO ACHIEVE THE STANDARD	AAMA 2603	AAMA 2604	AAMA 2605
	Specify	Specify	Specify
DULUX POWDER & INDUSTRIAL COATINGS	Duralloy	Duratec / Electro	Fluroset FP
COATING TYPE	TGIC free extra Durable Polyester	High Durability Polyester	Super Durable Fluoropolymer
PRODUCT I.D. CODE	Line 915	Line 900/906	Line 964

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, as the standards detail the required levels of both colour and film performance.

MATCHING PRODUCTS TO AAMA SPECIFICATION

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®

DEFINITION OF TERMS: ALUMINUM AND ITS ALLOYS

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

STRESS

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

STRAIN

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

TENSILE STRENGTH

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

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

YIELD STRENGTH

Yield strength is the stress at which a material exhibits a specified permanent set after being strained beyond the elastic limit. The value of set used for aluminium and its alloys is 0.002mm per

mm (0.2%). The term yield strength used in this publication is synonymous with the term 0.2% proof stress used in BS specifications. For the aluminium alloys the yield strength in tension and compression are approximately equal.

COMPRESSIVE YIELD

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

ELONGATION

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

SHEAR STRENGTH

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

DEFINITION OF TERMS: ALUMINUM AND ITS ALLOYS

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 micro-ohm-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: ALUMINUM AND 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: ALUMINUM AND 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.

TEMPER DESIGNATION SYSTEM: ALUMINUM AND ITS ALLOYS

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

TEMPER DESIGNATION SYSTEM: ALUMINUM AND ITS ALLOYS

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 received 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

ALLOY	TEMPER	THICKNESS (MM)		TENSILE STRENGTH (MPA)				ELONGATION (% MIN IN 50MM OR 5.65√A)
		OVER	UP TO	ULTIMATE		YIELD		
				MIN	MAX	MIN	MAX	
1350	- H112	ALL THICKNESSES		60				23
2011	- T4	ALL THICKNESSES		275		125		14
2011	- T6	-	25.0	350		220		8
		25.0	75.0	345		220		8
		75.0	-	340		200		8
2014	- T4	-	10.0	370		240		15
		10.0	100.0	385		245		13
		100.0	150.0	385		245		10
		150.0	200.0	370		240		10
2014	- T6	-	10.0	430		385		8
		10.0	25.0	465		415		6
		25.0	100.0	495		450		6
		100.0	150.0	465		415		6
6351	- T4	-	150.0	185		115		16
6351	- T5	ALL THICKNESSES		260		240		8
6351	- T54	-	12.5	205		140		10
6351	- T6	-	150.0	295		255		8
6082	- T4	-	150.0	190		120		14
		150.0	200.0	170		110		11
6082	- T5	-	6.0	270		230		8
6082	- T6	-	20.0	295		255		7
		20.0	150.0	310		270		7
		150.0	200.0	280		240		5
6061	- O 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	ALL	12.0	120		75		12
6060	- T5	-	12.0	150		110		6
		12.0	25.0	145		105		6
6060	- T52	-	12.0	150	205	110		8
SF6060	- T6			205		170		8
6063	- O	ALL THICKNESSES			130			16
6063	- T1	-	12.0	115		60		12
		12.0	25.0	110		55		10
6063	- T4	-	150.0	130		70		12

MECHANICAL PROPERTY LIMITS: EXTRUDED PRODUCTS

ALLOY	TEMPER	THICKNESS (MM)		TENSILE STRENGTH (MPA)				ELONGATION (% MIN IN 50MM OR 5.65 √A)
		OVER	UP TO	ULTIMATE		YIELD		
				MIN	MAX	MIN	MAX	
6063	- T5	-	12.0	150		110	110	8
		12.0	25.0	145		105	105	6
6063	- T52	-	12.0	150	205	110	110	8
6063	- T6	-	25.0	205		170	170	8
		25.0	150.0	185		160	160	10
6063	- H112	ALL THICKNESSES		110				13
6106	- T4	-	150.0	130		70	70	12
6106	- T6	-	10.0	235		210	210	8
		10.0	25.0	205		170	170	8
		25.0	150.0	185		160	160	10
6463A	- T1	-	12.0	115		60	60	12
6463A	- T5	-	12.0	150		110	110	8
6463A	- T6	-	3.0	205		170	170	8
		3.0	12.0	205		170	170	10
6005A	- T4	-	12.0	180		110	110	14
6005A	- T5	ALL THICKNESSES		260		240	240	8
6261	- T1	ALL THICKNESSES		190		115	115	14
6261	- T5	-	5.0	295	150	255	255	7
		5.0	10.0	280		240	240	7
6261	- T6	ALL THICKNESSES		295		255	255	7
7005	- T53	-	20.0	350		300	300	10

MECHANICAL PROPERTY LIMITS: SHEET & PLATE

ALLOY	TEMPER	THICKNESS (MM)		TENSILE STRENGTH (MPA)				ELONGATION (% MIN IN 50MM OR 5.65 √A)
		OVER	UP TO	ULTIMATE		YIELD		
				MIN	MAX	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

ALLOY	TEMPER	THICKNESS (MM)		TENSILE STRENGTH (MPA)				ELONGATION (% MIN IN 50MM OR 5.65 √A)
		OVER	UP TO	ULTIMATE		YIELD		
				MIN	MAX	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

These typical mechanical properties are averages which take into account the variations. Introduced by the type of wrought product, size, shape and method of manufacture.

MECHANICAL PROPERTY LIMITS: SHEET & PLATE

ALLOY	TEMPER	THICKNESS (MM)		TENSILE STRENGTH (MPA)				ELONGATION (% MIN IN 50MM OR 5.65 √A)
		OVER	UP TO	ULTIMATE		YIELD		
				MIN	MAX	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	105		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		6
								7

MECHANICAL PROPERTY LIMITS: SHEET & PLATE

ALLOY	TEMPER	THICKNESS (MM)		TENSILE STRENGTH (MPA)				ELONGATION (% MIN IN 50MM OR 5.65 √A)
		OVER	UP TO	ULTIMATE		YIELD		
				MIN	MAX	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

These typical mechanical properties are averages which take into account the variations. Introduced by the type of wrought product, size, shape and method of manufacture.

MECHANICAL PROPERTY LIMITS: SHEET & PLATE

ALLOY	TEMPER	THICKNESS (MM)		TENSILE STRENGTH (MPA)				ELONGATION (% MIN IN 50MM OR 5.65 √A)
		OVER	UP TO	ULTIMATE		YIELD		
				MIN	MAX	MIN	MAX	
5083	- H311	6.00	40.00	290	350	170	285	14
5083	- H321	5.00	40.00	305	385	215	295	10
		40.00	75.00	280	385	200	295	10
5083	- H323	1.30	3.20	310	375	235	305	8
		3.20	6.00	310	375	235	305	10
5083	- H343	1.30	3.20	345	405	270	340	6
		3.20	6.00	345	405	270	340	8
5083	- H112	6.00	40.00	275		125		10
		40.00	75.00	270		115		10
5083	- H115	20.00	50.00	310		255		7
		50.00	70.00	305		240		7
5083	- H116	3.00	6.00	305		215		10
		6.00	30.00	305		215		10
6061	- O	0.25	0.50		150		85	14
		0.50	3.25		150		85	16
		3.25	12.00		150		85	18
		12.00	25.00		150		85	16
6061	- T4	0.25	0.50	205		115		14
		0.50	6.00	205		115		16
		6.00	25.00	205		115		16
6061	- T42	0.25	0.50	205		95		14
		0.50	6.00	205		95		16
		6.00	25.00	205		95		16
6061	- T6 & T62	0.25	0.50	290		240		8
		0.50	12.00	290		240		10
		12.00	25.00	290		240		7
7075	- T6/T651			570		505		11
8011	- O	0.15	0.30	75	105			16
		0.30	0.80	75	105			20
		0.80	1.30	75	105			25
		1.30	5.00	75	105			30
8011	- H12	0.20	0.50	100	135			3
		0.50	0.80	100	135			4
		0.80	1.30	100	135			6
		1.30	3.00	100	135			8
		3.00	6.00	100	135			9
8011	- H14	0.20	0.50	115	150			2
		0.50	0.80	115	150			3
		0.80	1.30	115	150			4
		1.30	3.00	115	150			5
		3.00	6.00	115	150			7
8011	- H16	0.20	0.50	140	170			1
		0.50	0.80	140	170			2
		0.80	1.30	140	170			3
		1.30	3.00	140	170			4
		3.00	6.00	140	170			5
8011	- H18	0.20	0.50	160				1
		0.50	0.80	160				2
		0.80	1.30	160				3
		1.30	3.00	160				4



TYPICAL FABRICATION CHARACTERISTICS: ALUMINUM AND ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA

ALLOY	NOMINAL COMPOSITION (%)	COMMERCIAL FORMS ¹	TYPICAL APPLICATIONS 2*
1199	Al 99.99 min	F	Electrical and electronic foil use.
1080A	Al 99.80 min	S,P,T,E,B,F	Chemical and process plant and equipment.
1070	Al 99.70 min	F,S,P	Electrical and electronic foil use.
1050	Al 99.50 min	S,P,T,E,B,F	Chemical and process plant and equipment.
1145	Al 99.45 min	F	Foil use.
1150	Al 99.85 min Cu 0.12	S	Sheet metal components requiring decorative finishing.
1100	Al 99.80 min Cu 0.12	F,S,P,B	Spinnings, hollowware and general sheet metal work.
1200	Al 99.00 min	F,S,P,T,W,B	Spinnings, hollowware and general sheet metal work.
1235	Al 99.35	F,T	Deep Drawing, Forming
1350	Al 99.50 min	S,P,T,E,W,B	Electrical conductors.
2011	Cu 5.5 Pb 0.5 Bi 0.5	W,B	Screw machine products not requiring decorative anodising.
2014 2014A	Si 0.8 Cu 4.4 Mn 0.8 Mg 0.6	T,E,B	Aircraft structures, forgings, heavy duty structural applications.
2024	Cu 4.5 Mn 0.6 Mg 1.5	S	Aircraft sheeting.
3003	Mn 1.2 Cu 0.12	F,S,P	Chemical equipment, sheet metal work, rigid foil containers, closures.
3203	Mn 1.2	F,S,P,T,W	Sheet metal work, high-strength foil, deep drawing, chemical equipment.
3004	Mn 1.2 Mg 1.0	S,P	Sheet metal work, car bodies, seam welded tubing, roofing sheet.
3004A	Mn 1.15 Mg 1.15	S,P	Sheet metal work, seam welded tube, roofing sheet, can body stock.

	CHARACTERISTICS ²				COLD FORMING	WELDABILITY			HEAT TREAT
	CORROSION RESISTANCE	MACHINING	ANODISING ³	BRAZING		GAS WELD	INERT GAS WELD	RESISTANCE SPOT WELD	
	A,A	D,C	B,B	A	A,D	A	A	B,A	No
	A,A	D,C	B,B	A	A,D	A	A	B,A	No
	A,A	D,C	B,B	A	A,D	A	A	B,A	No
	A,A	D,C	B,B	A	A,D	A	A	B,A	No
	A,A	D,C	B,B	A	A,D	A	A	B,A	No
	A,A	D,C	A,A	NR	A,D	NR	NR	B,C	No
	A,A	D,C	B,B	A	A,C	A	A	B,A	No
	A,A	D,C	B,B	A	A,C	A	A	B,A	No
	A,A	D,C	B,B	A	A,C	A	A	B,A	No
	A,A	D,C	B,B	A	A,D	A	A	B,A	No
	D,D	A,A	D,D	D	C,D	D	D	D	Yes
	D,D	B,B	D,D	D	C,D	D	C	B	Yes
	D,D	B,B	D,D	D	C,D	D	C	B	Yes
	A,A	D,C	B,B	A	A,C	A	A	B,A	No
	A,A	D,C	B,B	A	A,C	A	A	B,A	No
	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No
	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No

TYPICAL FABRICATION CHARACTERISTICS: ALUMINUM AND ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA

ALLOY	NOMINAL COMPOSITION (%)	COMMERCIAL FORMS ¹	TYPICAL APPLICATIONS 2*
3005	Mn 1.2 Mg 0.35	F,S	High-strength foil.
3105	Mn 0.5 Mg 0.5	F,S	Painted sheet products.
5005	Mg 0.8	F,S,P	Appliances and utensils, general sheet metal work and high-strength foil.
5050A	Mg 1.4	F,S,T,P	Refrigerator trim, painted sheet.
5052	Mg 2.5 Cr 0.25	S,P	Sheet metal work, appliances, marine applications.
5251	Mg 2.0	S,P,T,F,W	Sheet metal work, appliances, small boats, hydraulic tube, high-strength foil.
5252	Mg 2.5	S	High strength automobile trim.
5154A	Mg 3.5 Cr 0.25	S,E,B	Welded structures, storage tanks, pressure vessels, marine applications.
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.
5454	Mg 2.7 Mn 0.8 Cr 0.1	S,P	Welded structures, pressure vessels to use at elevated temperatures.
5056	Mg 5.2 Mn 0.1 Mg 0.1	W,S	Aircraft structures, forgings, heavy duty structural applications.
5457	Mg 1.0 Mn 0.2 Cu 0.1	S	Automobile trim.
5557	Mg 0.6 Mn 0.2 Cu 0.1	S	Automobile trim.

	CHARACTERISTICS ²				COLD FORMING	WELDABILITY			HEAT TREAT
	CORROSION RESISTANCE	MACHINING	ANODISING ³	BRAZING		GAS WELD	INERT GAS WELD	RESISTANCE SPOT WELD	
	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No
	A,A	D,C	B,B	B,B	A,C	B	A	B,A	No
	A,A	D,C	B,B	B	A,C	A	A	B,A	No
	A,A	D,C	B,B	B	A,C	A	A	B,A	No
	A,A	C,B	C,C	C	A,C	A	A	B,A	No
	A,A	C,B	C,C	C	A,C	A	A	B,A	No
	A,A	C,B	A,A	NR	A,C	NR	NR	B,C	No
	A,A	C,B	C,C	D	A,C	C	A	B,A	No
	A,C	C,B	C,C	D	A,C	C	A	B,A	No
	A,A	C,B	C,C	D	A,C	C	A	B,A	No
	A,C	B,B	D,D	D	C,D	D	C	B	Yes
	A,A	C,C	A,A	NR	A,C	NR	NR	B,C	No
	A,A	C,C	A,A	NR	A,C	NR	NR	B,C	No

TYPICAL FABRICATION CHARACTERISTICS: ALUMINUM AND ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA

ALLOY	NOMINAL COMPOSITION (%)	COMMERCIAL FORMS ¹	TYPICAL APPLICATIONS 2*
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.
5086	Mg 4.0 Mn 0.5 Cr 0.15	S,P	As for 5083.
SF 6060	Si 0.45 Mg 0.5	E,T,W,B	Architectural extrusions, general purpose extrusions.
6060	Si 0.45 Mg 0.5	E,T,W,B	Architectural extrusions, general purpose extrusions.
6063	Mg 0.7 Si 0.4	T,E,W,B	Furniture, architectural extrusions, general purpose extrusions.
6463A	Mg 0.7 Si 0.4	E,B	Trim extrusions requiring decorative finishing.
6101	Mg 0.6 Si 0.5	T,E,B,P	Electrical conductors.
6201A	Mg 0.7 Si 0.6	W,B	Electrical conductors.
6106	Si 0.45 Mn 0.12 Mg 0.6	T,E,W,B	General purpose extrusions, light structural applications.
6103	Si 0.65 Cu 0.25 Mg 1.1	T,E,W,B	Structural applications, transport, marine.
6261	Si 0.55 Cu 0.25 Mn 0.25 Mg 0.85	T,E,W,B	Structural applications, transport, marine.
6005A	Si 0.7 Mg 0.55	T,E,W,B	Structural applications, transport, marine.
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.

	CHARACTERISTICS ²				COLD FORMING	WELDABILITY			HEAT TREAT
	CORROSION RESISTANCE	MACHINING	ANODISING ³	BRAZING		GAS WELD	INERT GAS WELD	RESISTANCE SPOT WELD	
	A,C	C,B	C,C	D	A,C	C	A	B,A	No
	A,C	C,B	C,C	D	A,C	C	A	B,A	No
	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
	A,B	B,C	A,A	A	A,C	A	A	B,A	Yes
	A,B	B,C	A,A	A	A,C	A	A	B,A	Yes
	A,A	C,C	A,A	A	A,C	A	A	B,A	Yes
	B,B	B,C	B,B	A	A,C	A	A	B,A	Yes
	B,B	B,C	B,B	A	A,C	A	A	B,A	Yes
	A,A	B,C	B,B	A	A,C	A	A	B,A	Yes
	A,B	B,C	B,B	A	A,C	A	A	B,A	Yes

TYPICAL FABRICATION CHARACTERISTICS: ALUMINUM AND ITS ALLOYS

TYPICAL FABRICATION CHARACTERISTICS AND APPLICATION DATA

ALLOY	NOMINAL COMPOSITION (%)	COMMERCIAL FORMS ¹	TYPICAL APPLICATIONS 2*
6061	Mg 1.0 Si 0.6 Cu 0.25 Cr 0.2	S,P,T,E, W,B	Structural applications where corrosion resistance is needed. Transport, marine, aircraft landing mats.
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 decorative anodising.
7005	Zn 4.5 Mg 1.4	E	High-strength welded structures. For specific corrosive environments, contact material supplier.
8006	Fe 1.5 Mn 0.5	S,F	Heat exchanger fins, foil, rectangular pressings.
8011	Fe 0.8 Si 0.7	S	Bottle closures, general sheet, fin stock, foil.

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 Limited.

	CHARACTERISTICS ²				COLD FORMING	WELDABILITY			HEAT TREAT
	CORROSION RESISTANCE	MACHINING	ANODISING ³	BRAZING		GAS WELD	INERT GAS WELD	RESISTANCE SPOT WELD	
	B,B	C,B	B,B	A	A,C	A	A	B,A	Yes
	B,B	A,A	B,B	A	A,C	A	A	B,A	Yes
	C,D	B,B	B,B	NR	NR	NR	A	C,C	Yes
	A,A	D,C	B,B	A	A	A	A	B,A	No
	A,A	D,C	C,C	A	A,C	A	A	B,A	No

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 (mm²)

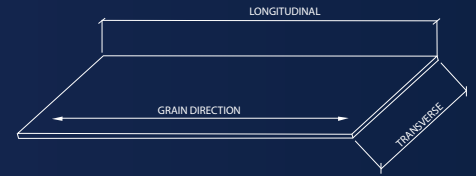
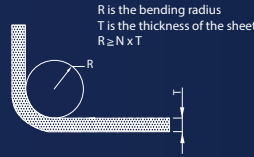
MASS CONVERSION FACTOR

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.

BENDING DATA: SHEET & PLATE



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	0.0T	0.0T	0.0T	0.0T	0.0T	0.5T	0.5T	1.0T
1050	-H12	0.0T	0.0T	0.0T	0.0T	0.0T	0.5T	1.0T	1.5T
1350	-H14	0.0T	0.0T	0.0T	0.5T	0.5T	1.0T	1.5T	2.0T
1150	-H16	0.0T	0.0T	0.5T	1.0T				
	-H18	0.5T	1.0T	1.5T	2.0T				
1100	-O	0.0T	0.0T	0.0T	0.0T	0.0T	0.5T	1.0T	1.5T
1200	-H12	0.0T	0.0T	0.0T	0.5T	1.0T	1.0T	1.5T	2.0T
	-H14	0.0T	0.0T	0.0T	1.0T	1.0T	1.5T	2.0T	2.5T
	-H16	0.0T	0.5T	1.0T	1.5T				
	-H18	1.0T	1.5T	2.0T	3.0T				
2024 ²	-O	0.0T	1.0T	1.0T	1.0T	1.0T	1.0T	2.5T	4.0T
	-T42	2.5T	3.0T	4.0T	5.0T	5.0T	6.0T	7.0T	8.0T
3003	-O	0.0T	0.0T	0.0T	0.0T	0.5T	1.0T	1.0T	1.5T
3203	-H12/H32	0.0T	0.0T	0.0T	0.5T	1.0T	1.0T	1.5T	2.0T
3005	-H14/H34	0.0T	0.0T	0.0T	1.0T	1.0T	1.5T	2.0T	2.5T
5005	-H16/H36	0.5T	1.0T	1.0T	1.5T				
	-H18/H38	1.0T	1.5T	2.0T	3.0T				
3004	-O	0.0T	0.0T	0.0T	0.5T	1.0T	1.0T		
	-H32	0.0T	0.0T	0.5T	1.0T	1.0T	1.5T		
	-H34	0.0T	1.0T	1.0T	1.5T	1.5T	2.5T		
	-H36	1.0T	1.0T	1.5T	2.5T				
	-H38	1.0T	1.5T	2.5T	3.0T				
5005	-O	0.0T	0.0T	0.0T	0.5T	1.0T	1.0T		
	-H32	0.0T	0.0T	0.0T	1.0T	1.0T	1.5T		
	-H34	0.0T	0.0T	1.0T	1.5T	1.5T	2.0T		
	-H36	1.0T	1.0T	1.5T	2.0T				
	-H38	1.0T	1.5T	2.5T	3.0T				
5052	-O	0.0T	0.0T	0.0T	0.5T	1.0T	1.0T	1.5T	1.5T
5251	-H32	0.0T	0.0T	1.0T	1.5T	1.5T	1.5T	1.5T	2.0T
	-H34	0.0T	1.0T	1.5T	2.0T	2.0T	2.5T	2.5T	3.0T
	-H36	1.0T	1.0T	1.5T	2.5T				
	-H38	1.0T	1.5T	2.5T	3.0T				
5154A	-O	0.0T	0.0T	0.5T	1.0T	1.0T	1.0T	1.5T	1.5T
5454	-H32	0.0T	0.5T	1.0T	1.5T	1.5T	2.0T	2.5T	3.5T
	-H34	0.5T	1.0T	1.5T	2.0T	2.5T	3.0T	3.5T	4.0T
	-H112						2.0T	2.5T	3.0T
5083	-O	0.5T	1.0T	1.0T	1.5T	1.5T	2.0T	2.5T	2.5T
	-H321		2.0T	2.0T	2.5T	2.5T	4.0T	4.0T	4.0T
	-H116		2.0T	2.0T	2.5T	2.5T	4.0T	4.0T	4.0T
5086	-O	0.0T	0.0T	0.5T	1.0T	1.0T	1.0T	1.5T	1.5T
	-H32	0.0T	1.5T	1.5T	2.0T	2.0T	2.0T	2.5T	3.0T
	-H34	0.5T	1.0T	1.5T	2.0T	2.5T	3.0T	3.5T	4.0T
	-H36				3.0T	3.5T			
	-H112					1.5T	2.0T	2.0T	2.5T
6061 ²	-O	0.0T	0.0T	0.0T	1.0T	1.0T	1.0T	1.5T	2.0T
	-T4 & T42	0.0T	0.5T	1.0T	1.5T	2.5T	3.0T	3.5T	4.0T
	-T6 & T62	1.0T	1.0T	1.5T	2.5T	3.0T	4.0T	4.5T	5.0T

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

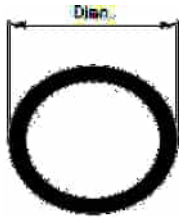
INCHES	MM
1/8	3.175
1/4	6.350
3/8	9.525
1/2	12.700
5/8	15.875
3/4	19.050
7/8	22.225
1	25.400
1 1/8	28.575
1 1/4	31.750
1 3/8	34.925
1 1/2	38.100
1 5/8	41.275
1 3/4	44.450
1 7/8	47.625
2	50.800
2 1/8	53.975
2 1/4	57.150
2 3/8	60.325
2 1/2	63.500
2 5/8	66.675
2 3/4	69.850
2 7/8	73.025
3	76.200

POUNDS TO KILOGRAM CONVERSION

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

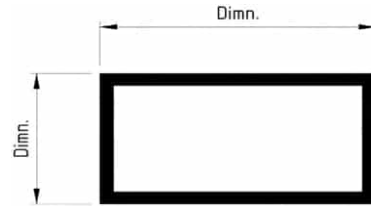
EXTRUSION TOLERANCE GUIDELINES

TOLERANCES ALLOWED FOR ROUND TUBES, SQUARE AND RECTANGULAR HOLLOWS



SPECIFIED DIMENSIONS

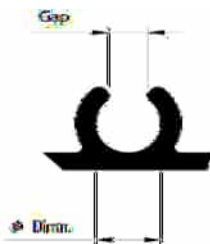
DIMN.	TOL.
UP TO 25.0	±0.50
25.1 TO 50.0	±0.70
50.1 TO 100.0	±0.80
100.1 TO 125.0	±1.30
125.1 TO 150.0	±1.30
150.1 TO 180.0	±1.90
180.1 TO 200.0	±1.90
200.1 TO 220.0	±2.60
220.1 TO 250.0	±2.60



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

EXTRUSION TOLERANCE GUIDELINES

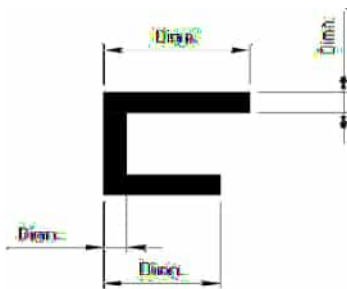
TOLERANCES ALLOWED FOR OVERALL WIDTH OF SECTIONS



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



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