





ALUMINUM TECHNOLOGY

The largest manufacturer and supplier of aluminum solar frames for photovoltaic modules

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CL INTERNATIONAL BUSINESS LIMITED

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East-China has always been regarding quality as her life. We have passed ISO-9001 Quality Management System, UL, ROHS, TUV and obtained bunches of quality certificates issued by international test agencies.

As a leader in the industry, our products are being exported to Germany, Japan, America, Spain, U.K. etc. We would like to provide the best service with the best price and in the shortest lead time.



PRODUCT INTRODUCTION

Chemical Components Should Conform To Standard GB/T3190-1996

	Si.	Fe	Cu	Mn	Mg	Cr	Zn	T)	Others	Al
6063-T5	0.2-0.6	≤0.35	≤0.1	≤0.1	0.45-0.9	≤0.1	≤0.1	≤0.1	≤0.15	surplus
6060-T5	0.3-0.6	0.1-0.3	0.1	0.1	0.35-0.6	0.05	0.15	0.10	≤0.15	surplus
6005-T5	0.4-0.6	0.6-0.9	s035	±0.1	0.4-0,6	≤0.1	s0.1	≤0.1	≤0.15	surplus

Allowed Deviation Of Dimension

The dimension of cross section and allowed deviation should conform to the technical drawings signed by the seller and buyer, if it wasn't noted in the contract, we will supply the goods under the precise class specified in the GB5237-2008.

			Precis	e Class								
Number		Dimension of mental entity no less than 75%				All the part dimension of metal entuty less than 75%						
	Dimension of ramed part	positio when its rotal					etween meas benchmark po					
				>6-15	>15-30	>30-60	>60-100	>100-150	>150-200			
1	£1	0.13	0.18	0.18	*		+		-			
2	>1-2	0.15	0.23	0.22	0.26	- 53		0,60				
3	>2-3	0.18	0.28	0.26	0.30	20	- 2	100	-			
4	>3-4	0.20	0.38	0.30	0.35	0.42	(4)	0.63	14			
5	>4-6	0.23	0.53	0.35	0.40	0.47						
6	>6-12	0.25	0.75	0.41	0.46	0.52	0.56	1000	4			
7	>12-19	0.29	+	0.47	0.52	0.58	0.62					
8	>19-25	0.32	#.)	0.53	0.58	0.63	0.71	0,83	-			
9	>25-38	0.38	-	0.61	0.66	0.75	0.84	0.95				
10:	>38-50	0.45	+3	0.70	0.75	0.89	1.01	1.14	134			
11	>50-100	0.77		0.98	1.09	1.36	1.58	1.87	2.17			
12	>100-150	1.08	2	1.31	1:44	1.82	2.19	2.60	3.00			
13	>150-200	1.41	-	1.59	1.89	2.34	2.76	3.33	3.83			
14	>200-250	1.74	- 2	1.87	2.14	2.87	3.38	3.99	4.61			

Allowed Deviation Of Angels Of The Profile

Class	Allowed deviation
Precise	±1*

A Note: Allowed deviation is subject to negotiation between the seller and buyer.



Planar Clearance

When a ruler is put on the planar surface of the aluminum extruded profile clearance between the ruler and the planar surface should meet with the following rules:

Width of Profile	Planar Clearance	
s25	s0.15	
s-25	≤0.6%×B	
Above 25mm	≤0.15	

A Note:

- · B is the width of the measuring surface.
- This standard is not for surface of those profiles with hatches, For the measurement of these kinds of aluminum extruded profiles.
 Please join the two sides of the hatches into one flat plane and note it clearly in the drawings.

Mechanical Property

Alloy State			Pull Test					
	State	Thickness(mm)	Tensile strength(Mpa)	Non-scale elongating strength(Mpa)	Hardness (*)			
			No less than(2)					
6063	T5	All	160	110	8			
6063	T6	All	205	180	12			
6060	T5	All	157	108	8			
6005	T5	All	260	240	12			
6063	T66	All	245	200	14			

Anodized Thickness And Coating Thickness

Anodized film	Paint film	Composite film
≥9µm	≥7µm	≥16µm

Property Of Paint Film: According To The Rule Of GB5237.3-2008

Thickness Class	Anodi	zed film	Paint film		Composite film Corrosion Strength				
	Corrosion Strength(CASS)								Abrasion
	Test	Test Protect Time(h) Class(r)	Adhesive	Hardness	CA	CASS Tirst		Alkali Resistance	
	Time(h)		Time(h) Class(r)			Test Time(h)	Protect Class(r)	Test Time(h)	Protect Class(r)
В	8	≥0	0	23H	.24	≥9.5	16	≥95	≥2750

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CASTING WORKSHOP

THERE ARE EIGHT
SET OF CASTING
FURNACES, THE
OUTPUT CAN OVER
600 TONS EVERYDAY











TOOLING WORKSHOP





A Moulds



▲ Mould Production

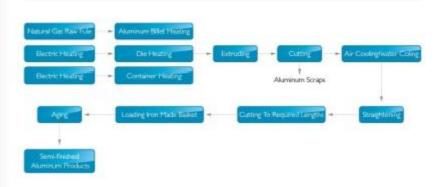
EXTRUSION WORKSHOP



We have 50 extrusion production lines

Extrusion press	Quantity						
660UST	5 lines	1100UST	30 lines	1800UST	1 lines	3600UST	2 lines
880UST	4 lines	1450UST	4 lines	2500UST	3 lines	4000UST	I fines







▲ Extrusion Machine



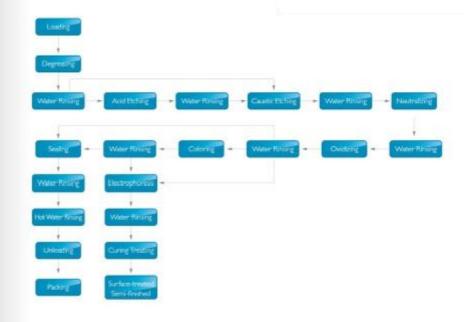
ANODIZING WORKSHOP

The company has 6 units anodized surface treatment production line. Mainly produce Silver; Champagne, Bronze, Golden, Black, Sand Blasting and Electrophonesis etc.





CL INTERNATIONAL BUSINESS LIMITED







DETECTION ANALYSIS

We have one test center. Introduced spectrum analyzer from UK Cimatron Section Measuring System From Shaping Articles from Israel, Xenon Weatherometer from U.S...















A Drilling Machine

A Punching Machine

CNC AND PUNCH MACHINE

Machining Workshop



PACKING LINE



Carton Packing

v Packing









LOADING

Usually, on 20' container can load 5500 sets, about 16 tons.







CERTIFICATE













TECHNICAL DRAWING

Model No.	Technical Drawing	Linear Density (kg/m)
GT0+I	10 8	0.692
GT042	115	0.443
GT045	\$) \$ 41.5	0.977
GT052	₹ 40.2	0.728
GT055	2 35	0537

Model No.	Technical Drawing	Linear Density (kg/m)
GT199	\$ 105 30	0.555
GT155	F 118	0.529
GT156	± 3 1.8	0.642
GT165	Ψ 12	0.596
GT166	St 32	0.734

Model No.	Technical Drawing	Linear Density (kg/m)	Model No.	Technical Drawing	Linear Density (kg/m)
GT203	2	0.665	GT526A	215 = 42	0.695
GT001	451	0.987	GT312A	30 N	0.5
GT002	15 ¥	0.530	GT810	32 SI	0.525
GT028	51 - 1.8 35 - 35	0.524	GT449D	9 10	0.539
GT449A	9 1.5	0.573	GT461A	342 3 25 - 21	0316

Model No.	Technical Drawing	Linear Density (kg/m)
GT462	40	0.608
GT659A	P 15	0.619
GT758A	2 F2	0552
GT605	25 Jan 25	0.484
GT606	1.8 43	0.667

Model No.	Technical Drawing	Linear Density (kg/m)
GT607	¥ 2 40	0.668
GT001	45.1	0.987
GT002	\$ 35	0.530
GT848	g	0.602
GT002A	3 g	0.529

Model No.	Technical Drawing	Linear Density (kg/m)	Model No.	Technical Drawing	Linear Density (kg/m)
GT003	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0615	GT1156	2 Co	0.477
GT888	\$ 15.5 35	0.492	GT1158	φ 21 1.3 35	0.624
GT921	8 2	0.673	GTI164	9: 15	9,772
GT930	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.578	GT1249	g 3 3 15 15 15 15 15 15 15 15 15 15 15 15 15	0.601
GT931	s 33	0.458	GT1088	23	0.460

Model No.	Technical Drawing	Linear Density (kg/m)
GT1456	\$ 5	0.499
GT1457	\$ 18 672	1.03
GT1517	2 13 10 10 10 10 10 10 10 10 10 10 10 10 10	0.412
GT1518	28 21 23 25	043
GT1541	9 1,25	0.465

Model No.	Technical Drawing	Linear Density (kg/m)
GT1654	10 10 10 10 20	0.431
GT1655	a 1.4	0.69
GT1779	φ 1.6.	0.606
G019		1,841
GL033	XX	0.847

Model No.	Technical Drawing	Linear Density (kg/m)	Model No.	Technical Drawing	Linear Density (kg/m)
GT317	P 5	1.237	GT323	8 2 2	1,028
GI319	9 5	1.083	GT368	5	1257
GT329	5 40	1.441	GT376	\$ 5.	1,122
GT321	5 40	1.804	GT471	1.8	1257
GT322	\$ 2 as	1.659	GT584	## ## ## ## ## ## ## ## ## ## ## ## ##	1,164

Model No.	Technical Drawing	Linear Density (kg/m)
GT321	5 9	1.804
GT322	H	1.659
GT323		1.028
GT317	2 5 -	1237
GT319	φ <u>5</u>	1.083

Model No.	Technical Drawing	Linear Density (kg/m)
GT376	Ç 5 - 45 -	1.122
GT377	24 1 2	0.562
GT378	33.46	0351
G1398	a 100	2337
GT399		1.75

Model No.	Technical Drawing	Linear Density (kg/m)	Model No.	Technical Drawing	Linear Density (kg/m)
GT478	26	0.634	GT481	25 5	1.009
GT479	26 #	0.620	GT 482	25	0.982
GT480	26 3	0.528	GT483	25	0.806
G7583	41.75	0.710	GT484		1574
GT584	67.5	1.164	GT+85	92	0396

▲ Note: playing ———— as decorative surface! △ Department is playing a plastic surface

PRODUCTS

