



Jindal Aluminium

Format No :JAL/QA/F/07

Jindal Aluminium Limited

Registered Office:

Jindal Nagar, Tumkur Road, Bengaluru - 560073

+91-80-2371-5555

www.jindalaluminium.com

### TEST CERTIFICATE

<b>CUSTOMER:</b> <b>RAJENDRA INDUSTRIAL SUPPLIERS</b>  Shop No.24,vinayaka nagar magadi main road Kamakashipalya Bangalore 560079		<b>REPORT NO:</b> <b>EXTTC2023020288307</b>							
		<b>DATE</b> 20/12/2023							
		<b>ORDER REF:</b> <b>DATE:</b>							
<b>SECTION NO. AND DESCRIPTION (mm)</b> 10232 (12x50FLAT BAR)		<b>ALLOY TEMPER</b>  6082T6	<b>HEAT NO.</b>  1383957	<b>DATE OF EXTRUSION</b>  10/12/2023					
<b>PART NO.:</b>									
<b>CHEMICAL COMPOSITION PERCENT</b>									
	Mg	Si	Mn	Fe	Cu	Zn	Ti	Cr	Al
SPECIFIED	0.6-1.2	0.7-1.3	0.4-1	0.5(max)	0.1(max)	0.2(max)	0.1(max)	0.25(max)	Remainder
ACTUAL	0.63	0.73	0.465	0.275	0.023	0.018	0.040	0.014	97.80
<b>MECHANICAL TEST</b>					<b>ELECTRICAL TEST</b>				
	0.2% PROOF STRESS MPa	TENSILE STRENGTH MPa		ELONGATION PERCENT ON 50 mm G.L.		RESISTIVITY MICRO- OHM-CM AT 20 .C		CONDUCTIVITY % IACS AT 20 C	
SPECIFIED	250(min)	295(min)		6(min)					
ACTUAL	322.64	341.89		13.50					
<b>Others:</b>									
<b>Remarks: MATERIAL CONFORMS TO ALUMINIUM ALLOY &amp; TEMPER 6082T6 AS PER BS EN 755-2</b>									

TESTED BY

For **RAJENDRA INDUSTRIAL SUPPLIERS**

Asst. Q.A. Supdt./Q.A.S/Chemist/Q.A.E

Authorised Signatory



CHECKED BY

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Quality Assurance Manager

# PENTAGON ALUMINIUM COMPANY PVT. LTD.



Works: Vill- BelaBathri, Tehsil-Haroli, Distt-Una, HimachalParadesh

[www.pentalcoaluminium.com](http://www.pentalcoaluminium.com) , [www.pentagonaluminiums.com](http://www.pentagonaluminiums.com)

Certificate of Product Quality According to EN 10204:3.

Product	Aluminium Alloy Plate	Customer:	Rajendra industrial suppliers	Customer ID :	19091
Lot No.	959-04/3059	Alloy & Temper	6082 T6	(mm) Dimension	12.7X1250X2500
Pallet No.	2061	Pcs.		(kg ) N. W.	2166.95

## Chemical Composition (%):EN573-3

Element	Si	Fe	Cu	Mn	Mg	Zn	Cr	Ti		Al %
Standard Value	0.7-1.3	0.5	0.1	0.4-1.0	0.6-1.2	0.2	0.25	0.1	-	Remainder
Actual Value	0.911	0.472	0.078	0.636	0.917	0.063	0.052	0.042	-	Remainder

## Mechanical Properties: BSEN485-2

Inspec. Item	RM (Mpa) Tensile Strength	Rp0.2 (Mpa) Yield Strength	A(%) Elongation	(HB) Hardness	Bend Results
Standard Value	275	240	6 Min	95	-
Actual Value	312	269	13	>95	-
Inspec. Item	(J/cm2) Impact	Exfoliation Corrosion	(mg/cm2) Intergranular Corrosion	Microstructure	Macrostructure
Standard Value	-	-	-	-	-
Actual Value	-	-	-	-	-
Other	Surface Control	Eligibility	Dimension Control	Eligibility	
Note	We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements.				Check Printing



Inspector: Mr. AMAN

Review: PRADEEP

Issue Date: 28/12/2023

For RAJENDRA INDUSTRIAL SUPPLIERS

*Archan*  
Authorised Signatory



HENAN MINGTAI AL. INDUSTRIAL CO., LTD											
Mill certificate:(according to EN10204/3.1B)						EN 10204/3.1B)					
						Certificate No. 230801					
MILL CERTIFICATE											
Invoice No.	230801		Loading Port:	Thailand		Destination Port:		CHENNAI,INDIA			
Description of Goods	<u>ALUMINIUM ALLOY PLATE</u> <u>HS CODE: 76061259/76061290</u> <u>CIF CHENNAI,INDIA</u>										
Customer			Custoemr order No.	C230714A		Standard testing Ref.		Material Standard EN 485-2			
Alloy&temper	EN AW-6061/T6、6082/T6							Tolerance Standard EN 573-3			
Mechanical properties											
No.	Lot No.	Size	Alloy&temper	Item	Tensile Strength(Mpa)	Yield strength(Mpa)	Elongation after fracture				
Req.					min310	min260	min10				
1	MSH2307W65090	3*1250*2500	6082 T6	Result	341	310	13				
2	MSH2307W65089	4*1250*2500	6082 T6	Result	349	304	14				
3	MSK2308W65026	5*1250*2500	6082 T6	Result	314	289	13				
Req.					min 290	min 240	min10				
1	MSH2307W65080	4*1250*2500	6061 T6	Result	317	280	16				
2	MSK2307W65075	10*1525*3050	6061 T6	Result	295	265	18				
Chemical composition											
No.	Product No.	Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Req.			0.7-1.3	0.5	0.1	0.1-1.0	0.6-1.2	0.25	0.2	0.1	Rem.
1	MSH2307W65090	Result	1.136	0.400	0.062	0.721	1.133	0.052	0.022	0.016	Rem.
2	MSH2307W65089	Result	1.136	0.400	0.062	0.721	1.133	0.052	0.022	0.016	Rem.
3	MSK2308W65026	Result	1.087	0.418	0.062	0.696	1.162	0.040	0.037	0.005	Rem.
Req.			0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	Rem.
1	MSH2307W65080	Result	0.601	0.633	0.235	0.129	1.044	0.112	0.139	0.010	Rem.
2	MSK2307W65075	Result	0.648	0.637	0.251	0.121	1.024	0.106	0.181	0.014	Rem.
'Inspected by		Quality inspection department				Final conclusion					
Checked by		Quality inspection department				/Pass ( √ )				NG ( )	

WE HEREBY CERTIFICATE THAT ALL SIZES ARE MEET THE STANDARD AMS 4027N-2008/AMS-QQ-A-250/11/ASTM B209: AMS 4056,ASTM B2

For **RAJENDRA INDUSTRIAL SUPPLIERS**

*Acharya*  
 Authorised Signatory