



**JINDAL STEEL & POWER LIMITED**  
 Works:Chhendipada Road,SH- 63, AtPo : Jindal Nagar, Dist : Angul (ODISHA)-759111 INDIA  
 Email:qelab.pri@angul.jspl.com  
 Registered Office:Post box No. 6, O P Jindal Marg ,Hisar (Haryana)  
 Corporate Office :Jindal Center,12 Bhikaji Cama Palace, New Delhi -110066 INDIA  
 Phone No.:(-06761) 254191-95; Fax :-06761 -254141-44

M/V DAWAN ELEGANCE 109342



0045

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0045 - CPR - 1835

Date : 12.06.2018

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**INSPECTION CERTIFICATE**

Test Certificate No. 0000004199

To, M/s NETYORK STEEL S.L SPAIN  
 CARDENAL MARCELO SPINOLA 2-5 PLTA.28016 MADRID SPAIN CIF 883,SPAIN,PIN-00000

Supply Condition:AS  
 ROLLED(TMCP)

Deoxidation :Fully Killed

**TEST RESULTS**

Process of Manufacture : EAF->LRF->VD->CCM->RHF->Hot rolling  
 (EAF - Electric Arc Furnace / LRF: Ladle Refining Furnace / VD : Vaccum Degassing / CCM : Continuous Casting Machine/ RHF : Re-Heating Furnace)

Material Grade : EN10025-2 S275JR+AR Plate Dimension -Thickness x Width x Length : 90.00MMX2500MMX11000MM																														
Heat No	Plate ID	Pcs	Wt. MT	Chemical Analysis																Mechanical Properties										
				LP	%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2	CE	YS	UTS	%EL*	Bend Test				Impact Value at(J)		
																							Mand Dia.	I	II	III	Avg	Temp °C	Orien	
A80769	A8076909A0	1	19.429	L	0.16	1.01	0.003	0.015	0.23	0.028	0.006	0.001	0.002	0.016		0.006	0.0004	0.013	55	0.33	284	437	27		175	142	168	161.66	20	L
A80769	A8076911A0	1	19.429	L	0.16	1.01	0.003	0.015	0.23	0.028	0.006	0.001	0.002	0.016		0.006	0.0004	0.013	55	0.33	284	437	27		175	142	168	161.66	20	L
A80769	A8076912A0	1	19.429	L	0.16	1.01	0.003	0.015	0.23	0.028	0.006	0.001	0.002	0.016		0.006	0.0004	0.013	55	0.33	286	448	29		142	148	166	152.00	20	L
A80770	A8077001A0	1	19.429	L	0.16	1.04	0.003	0.012	0.21	0.028	0.006	0.002	0.002	0.018	0.0010	0.005	0.0004	0.016	46	0.33	292	468	27		138	152	180	156.66	20	L
A80770	A8077002A0	1	19.429	L	0.16	1.04	0.003	0.012	0.21	0.028	0.006	0.002	0.002	0.018	0.0010	0.005	0.0004	0.016	46	0.33	292	468	27		138	152	180	156.67	20	L
A80770	A8077003A0	1	19.429	L	0.16	1.04	0.003	0.012	0.21	0.028	0.006	0.002	0.002	0.018	0.0010	0.005	0.0004	0.016	46	0.33	292	468	27		138	152	180	156.67	20	L
A80770	A8077004A0	1	19.429	L	0.16	1.04	0.003	0.012	0.21	0.028	0.006	0.002	0.002	0.018	0.0010	0.005	0.0004	0.016	46	0.33	292	468	27		138	152	180	156.67	20	L
A80770	A8077005A0	1	19.429	L	0.16	1.04	0.003	0.012	0.21	0.028	0.006	0.002	0.002	0.018	0.0010	0.005	0.0004	0.016	46	0.33	292	468	27		138	152	180	156.67	20	L
A80770	A8077006A0	1	19.429	L	0.16	1.04	0.003	0.012	0.21	0.028	0.006	0.002	0.002	0.018	0.0010	0.005	0.0004	0.016	46	0.33	292	468	27		138	152	180	156.67	20	L
A80770	A8077007A0	1	19.429	L	0.16	1.04	0.003	0.012	0.21	0.028	0.006	0.002	0.002	0.018	0.0010	0.005	0.0004	0.016	46	0.33	292	468	27		138	152	180	156.67	20	L
<b>Sub Total</b>		11	213.71																											

We hereby certify that Material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above said material specification. The above material supplied conforms to the specified dimensions and tolerances as per specifications and as per mutually agreed Technical Delivery Conditions  
 UltraSonic Examination : All the above plates are ultrasonically tested as per EN10160 S1E1 and found ok

Purchase Reference & Date: PROV/EXP/PLT/8002/ 19.04.2018  
 Despatch Advice No:  
 Vehicle No.  
 \* DOP can be viewed at www.jindalsteelpower.com"  
 \* Gauge Length: 5.65(SO)1/2

Prepared by SRIDHAR.BEHERA  
 Preparation Date :12.06.2018 09:06:58  
 Printing Date 12.06.2018 & Time 15:39:23

Authorized Signatory  
 QA/QC PlateMill  
 For, JINDAL STEEL & POWER LIMITED

JSP/L/ANG/PM-QA&QC/F-25J

**ONIRAM,LDA**  
 DEP.QUALIDADE  
 RECEPÇÃO

2021.06.23

RUBRICA



**INSPECTION CERTIFICATE**

Test Certificate No. 0000004199

To, M/s NETWORK STEEL S.L. SPAIN  
CARDENAL MARCELO SPINOLA 2-5 PLTA.28016 MADRID SPAIN CIF 883, SPAIN, PIN-00000

**TEST RESULTS**

Process of Manufacture : EAF->LRF->VD->CCM->RHF->Hot rolling  
(EAF - Electric Arc Furnace / LRF: Ladle Refining Furnace / VD : Vacuum Degassing / CCM . Continuous Casting Machine/ RHF - Re-Heating Furnace)

3. Material also conforms to TDC Doc. No. : JSPL/ANGUL/TDC/-M01333, Rev.00, Dt.:28.02.2018.
4. Dimensional Tolerance: Thickness tolerance found satisfactory as per EN 10029:2011 of Class A
5. Surface Inspection: As per EN10163:2005 class A Subclass 3
6. Flatness: As per EN10029:2011 table 4 class N (L Type)
7. Test Piece: Chemical as per EN ISO 14284:2003, Tensile as per DIN EN ISO 6892-1:2009 & Impact as per DIN EN ISO 148-1:2011
8. CE (IIW) :  $C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15$
9. Marking details: Mfg. Name, & logo, plate identification, specification & grade, size, customer name & UT Spec.
10. Orientation of Sample: Tensile is Transverse & Impact is Longitudinal to rolling direction
11. In Chemical Analysis column, L stands for Ladle Analysis & In Mechanical Properties Column, L stands for Longitudinal Direction

We hereby certify that Material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above said material specification.  
The above material supplied conforms to the specified dimensions and tolerances as per specifications and as per mutually agreed Technical Delivery Conditions  
UltraSonic Examination : All the above plates are ultrasonically tested as per EN10160 S1E1 and found ok

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\* Gauge Length: 5.65(SO)1/2

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Preparation Date :12.06.2018 09:06:58  
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Authorised Signatory  
QA/QC Plate Mill  
For, JINDAL STEEL & POWER LIMITED

JSPL/ANGUL/PM-QA&QC/F-25J