

MILL TEST CERTIFICATE

H HYUNDAI STEEL	
Head Office	1, Songhyeon-dong, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20140301683 - 3
Class Cert. No.	
Date of Issue	2014-03-10

Contract No.	
Customer	PLESA
L/C No.	LC-103176
P/O No.	32201401CD14
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen Size)		
			C	Si	Mn	P	S	Cu	Mo	Al	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio	AVG	1	2		3	
			x100			x1000		x100		x1000			x100		N/mm ²		%		C				
24X12-3/4X131 40.00 FT	N 023201	11 26,136	18	16	76	26	19	18	2	5			8	36	557	400	24.0	0.72					
24X12-3/4X131 40.00 FT	N 023202	7 16,632	17	17	74	32	20	18	2	5			12	35	562	403	23.5	0.72					
27X10X102 40.00 FT	N 023630	3 5,553	18	18	67	22	12	23	2	5			9	34	529	399	25.5	0.75					
27X10X102 40.00 FT	N 023631	4 7,404	21	20	73	25	10	25	3	5			11	40	564	427	24.5	0.76					
27X10X102 40.00 FT	N 023633	14 25,914	10	18	118	19	11	18	1	4			9	34	531	390	26.0	0.73					
27X10X114 40.00 FT	N 023603	6 12,408	18	20	97	19	12	26	3	4			9	40	571	400	24.5	0.70					
27X10X114 40.00 FT	N 023604	17 35,156	19	20	76	31	12	26	2	5			14	39	534	387	25.0	0.72					
27X10X114 40.00 FT	N 023605	7 14,476	18	16	77	22	12	26	3	3			11	37	556	403	24.5	0.72					
TOTAL		199 396,006	===== E N D =====																				

ORIGINAL

(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Yield Ratio = YP/TS

<p style="font-size: 2em; font-weight: bold;">K.S. Shim</p> <p>General Manager of Q.A Team</p>	<p>WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER</p>
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