

MILL TEST CERTIFICATE



Contract No.	
Customer	PLESA
L/C No.	LC-103176
P/O No.	32201401CD14
Commodity	H-BEAM
Specification	ASTM A572 G60/A992/ CSA 350W

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

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				
14X14-1/2X90 40.00 FT	N 022920	1 1,632	18	14	64	30	16	20	2	3			10	35	548	420	25.5	0.77					
27X10X102 40.00 FT	N 023631	2 3,264	18	15	112	30	19	21	1	3			9	43	542	399	26.0	0.74					
27X10X102 40.00 FT	N 023633	17 27,744	20	17	69	27	17	21	2	5			6	37	534	408	26.0	0.76					
14X14-1/2X90 40.00 FT	N 023236	14 22,848	19	15	67	22	17	23	2	4			11	36	533	400	26.1	0.75					
14X14-1/2X90 40.00 FT	N 023237	5 8,160	18	16	67	28	20	20	2	5			8	35	529	405	27.0	0.77					
18X11X119 40.00 FT	E 172950	9 19,431	19	17	98	33	11	27	3	5			12	42	555	380	26.0	0.67					
18X11X119 40.00 FT	E 172951	1 2,159	18	17	92	24	12	24	3	5			10	39	562	383	26.0	0.68					
18X11X119 40.00 FT	E 172953	13 28,067	20	17	97	24	12	27	2	5			13	42	541	371	25.5	0.69					
18X11X119 40.00 FT	E 172954	7 15,113	19	16	98	15	6	27	2	4			19	40	548	388	25.3	0.71					
SUB TOTAL		69 128,418																					

(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

K.S. Shim

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

General Manager of O.A Team

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