

MILL TEST CERTIFICATE



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201405C323
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

Head Office	83, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20140604710 - 2
Class Cert. No.	
Date of Issue	2014-06-24

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	x100	x1000	x1000	x100	x100	x100	x1000	x100	x100	x100	N/mm ²	N/mm ²	%	(%)	C				
24X12-1/4X111 40.00 FT	N 024756	6,042	21	16	67	30	11	30	2	6	13	39	531	390	25.6	0.78						
24X12-3/4X104 40.00 FT	N 024293	16,983	19	20	71	29	11	21	2	4	12	36	572	431	25.0	0.75						
24X12-3/4X104 40.00 FT	N 024294	26,418	19	15	72	29	11	21	2	4	11	37	569	444	24.0	0.76						
24X12-3/4X104 40.00 FT	N 024296	5,661	19	17	70	31	12	25	2	4	14	37	569	443	24.0	0.76						
24X12-3/4X104 40.00 FT	N 024296	7,548	19	13	71	27	9	28	2	4	14	37	569	422	24.0	0.75						
24X12-3/4X104 40.00 FT	N 024297	5,661	19	14	71	22	9	27	2	4	14	36	569	423	24.0	0.75						
24X12-3/4X131 40.00 FT	N 024320	11,880	19	17	67	26	10	27	7	8	24	38	552	420	22.5	0.76						
24X12-3/4X131 40.00 FT	N 024323	45,144	16	16	67	28	11	21	2	4	10	22	535	379	22.5	0.71						
24X12-3/4X131 40.00 FT	N 024324	7,128	17	13	74	22	11	21	2	4	10	34	539	385	24.0	0.71						
SUB TOTAL		132,465																				
TOTAL		118 230,027																				

(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

J. C. Ahn
General Manager of Q.A Team

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

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