Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201503C511
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL

Head Office	63, Jungbong-daero, Dong-gu, Incheon,401-712, S. Korea
Certificate No.	IH20150305391 - 13
Class Cert. No.	
Date of Issue	2015-03-30

Dimensions & Length	Heat No.	Pieces / Weights (kg)	Chemical Composition (%) C	Si	Mn	P	S	Cu / Ni	Mo / Cr	Al / V	Nb	Sn	CE(1)	Tensile Test: Tensile Strength	Yield point	Elongation(2)	Yield Ratio	Impact Test (V-notch): AVG	1	2	3	Remarks (Impact Specimen Size)
			×100			×1000		×100		×1000			×100	N/mm²		%		(J)	°C			
18X11X76 40.00 FT	N 027393	1 1,379	19	21	100	23	11	35 / 14	1 / 13	5 / 16	4	15	42	562 / 559	409 / 406	25.5 / 25.0	0.73 / 0.73					
18X11X76 40.00 FT	N 027394	1 1,379	19	15	98	24	11	31 / 14	2 / 13	4 / 15	4	15	42	569 / 564	411 / 407	24.5 / 25.0	0.72 / 0.72					
18X11X76 40.00 FT	N 027396	3 4,137	19	15	97	31	11	26 / 9	2 / 14	5 / 14	3	19	41	561 / 557	402 / 398	25.0 / 26.0	0.72 / 0.72					
18X11X97 40.00 FT	N 027357	6 10,560	18	15	98	24	7	26 / 8	3 / 18	3 / 15	3	13	41	541 / 531	422 / 432	24.0 / 24.5	0.78 / 0.81					
18X11X97 40.00 FT	N 027359	1 1,760	19	20	96	24	6	26 / 8	2 / 17	4 / 16	2	10	41	570 / 573	418 / 421	24.5 / 24.0	0.73 / 0.74					
18X11X97 40.00 FT	N 027368	2 3,520	18	16	97	24	10	26 / 10	2 / 13	3 / 14	2	14	40	548 / 546	400 / 397	25.5 / 25.0	0.73 / 0.73					
18X11X97 40.00 FT	N 027369	4 7,040	18	14	98	21	7	25 / 9	2 / 12	3 / 16	1	12	40	540 / 536	402 / 400	25.0 / 25.5	0.74 / 0.75					
18X11X97 40.00 FT	N 027370	1 1,760	19	16	96	26	8	26 / 10	2 / 15	3 / 15		15	41	555 / 548	406 / 399	24.5 / 24.0	0.73 / 0.73					
18X11X97 40.00 FT	N 027806	7 12,320	18	16	97	22	10	17 / 9	1 / 12	3 / 15	2	13	39	548 / 545	383 / 382	26.0 / 26.5	0.70 / 0.70					
SUB TOTAL		26 43,855																				

(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

HYUNDAI STEEL COMPANY

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

TEAM1

대외비/영 지정/철강라이언업15/2015-03-31 13:46