

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201506C112
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.	IH20150800468 - 1
Class Cert. No.	
Date of Issue	2015-08-04



Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen)	
			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		
6X4X8.5 40.00 FT	D 128392	300 46,200	17	17	59	28	7	25	2	3	16	16	34	564	424	24.0	0.75					
6X4X8.5 40.00 FT	D 128393	768 118,272	15	15	58	21	7	25	2	3	17	12	31	536	400	25.0	0.75					
8X4X10 40.00 FT	D 128408	180 32,580	18	17	58	18	6	28	2	3	17	11	33	558	423	23.5	0.78					
10X4X12 40.00 FT	D 128452	10 2,180	16	14	58	21	8	28	3	3	17	13	32	519	400	25.0	0.77					
10X4X12 40.00 FT	D 128453	220 47,960	18	14	58	22	8	26	3	3	16	11	38	524	409	24.0	0.78					
10X4X12 40.00 FT	D 128454	70 15,260	16	16	60	21	7	23	2	4	18	15	32	526	420	23.0	0.80					
10X4X19 40.00 FT	D 128446	10 3,450	16	13	59	21	8	27	2	3	17	13	32	521	400	25.0	0.77					
10X4X19 40.00 FT	D 128447	80 27,600	18	14	57	18	12	28	2	3	17	13	33	510	392	25.0	0.77					
16X5-1/2X26 40.00 FT	D 128306	2 944	17	15	59	23	6	25	2	3	17	19	33	540	414	24.0	0.77					
SUB TOTAL		1,640 294,448												543	415	24.5	0.76					

(Note) (1) Ceq: (C+Mn/8+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

HMS I 102(A)-3a

* QR마크는 "QReal" App을 통하여 원본 확인에 사용되는 마크입니다. (QRcode scanner App : "QReal")

A4(210X297)

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P/O No.	32201508C112
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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.	IH20150800468 - 2
Class Cert. No.	
Date of Issue	2015-08-04



Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen)	
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	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				
16X5-1/2X26 40.00 FT	D 128310	118 55,596	17	14	58	34	8	28 11	2 16	5 2	14	13	33	534 530	408 401	25.5 24.5	0.76 0.76					
16X5-1/2X26 40.00 FT	D 128311	10 4,720	16	15	59	33	7	28 12	2 18	6 2	17	13	32	538 535	408 401	23.5 24.5	0.76 0.76					
16X5-1/2X26 40.00 FT	D 128312	5 2,380	18	13	58	32	6	26 11	2 16	3 2	16	20	34	545 541	409 405	24.0 23.0	0.75 0.75					
TOTAL		1,773 357,222																				
— END —																						

(Note) (1) Ceq: (CE=C+Mn/6+Cr/6+V/5+Mo/5+Ni/16+Cu/16)

(2) Gauge length : 200 mm

(3) Yield Ratio = YP/TS

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