

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C111
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE



Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20160305386 - 2
Class Cert. No.	
Date of Issue	2016-03-24

EN 10204(2004) TYPE 3.1

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 Ni	Mo Cr	Al V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾	Yield Ratio	AVG	1	2		3
			×100			×1000			×100		×1000			×100	N/mm ²		%	°C				
12X4X19 40.00 FT	D 132433	10 3,450	16	14	58	21	7	28 8	1 20	3 2	20	12	32	558 554	435 430	25.5 26.0	0.78 0.78					
12X4X19 40.00 FT	D 132434	50 17,250	16	16	59	25	5	29 9	1 20	3 2	15	14	33	567 561	434 427	26.0 26.5	0.76 0.76					
12X4X19 40.00 FT	D 132435	60 20,700	16	12	63	20	10	27 8	1 17	2 3	17	15	32	534 529	448 440	26.0 26.5	0.84 0.83					
12X4X22 40.00 FT	D 132532	30 11,970	16	13	59	25	6	28 10	3 18	2 2	15	13	33	538 542	410 415	24.0 24.5	0.76 0.77					
12X4X22 40.00 FT	D 132533	50 19,950	18	16	57	25	8	25 10	2 20	2 3	16	12	34	545 540	425 420	24.0 24.5	0.78 0.78					
12X6-1/2X30 40.00 FT	D 132566	36 19,584	16	16	65	20	10	22 9	2 19	3 21	4	13	34	519 525	390 394	25.5 25.0	0.75 0.75					
12X6-1/2X30 40.00 FT	D 132567	42 22,848	16	14	64	23	12	22 10	2 23	2 3	16	11	34	522 523	391 392	26.0 26.5	0.75 0.75					
12X6-1/2X35 40.00 FT	D 132557	48 30,480	16	16	61	18	4	26 8	1 18	4 2	17	14	32	505 502	384 381	25.5 26.0	0.76 0.76					
14X5X26 40.00 FT	D 132764	5 2,360	17	14	58	24	7	26 9	2 18	3 2	17	12	33	553 560	423 425	24.0 24.5	0.76 0.76					
SUB TOTAL		331 148,592																				

(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