

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.	IH20160201768 - 2
Class Cert. No.	
Date of Issue	2016-02-16

EN 10204(2004) TYPE 3.1

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	Impact Test (V-notch)				Remarks (Impact Specimen Size)
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>		AVG	1	2	3	
			×100		×1000		×100		×1000		×100		×100		N/mm <sup>2</sup>			%	( <sup>°</sup> )	C		
10X4X12 40.00 FT	D 132429	80 17,440	19	14	62	25	7	36 11	2 23	3 4	18	17	38	548 552	422 425	25.0 24.5	0.77 0.77					
10X4X17 40.00 FT	D 132374	40 12,320	19	16	60	23	4	25 9	2 15	4 2	14	11	35	570 565	439 437	24.0 25.0	0.77 0.77					
10X5-3/4X22 40.00 FT	D 132305	120 47,880	16	15	60	24	4	31 10	2 17	3 3	19	15	33	526 522	408 400	26.0 25.5	0.78 0.77					
10X5-3/4X22 40.00 FT	D 132356	32 12,768	16	17	73	23	3	27 8	2 12	4 26	3	14	34	543 549	416 420	25.5 24.5	0.77 0.76					
10X5-3/4X22 40.00 FT	D 132357	8 3,192	17	16	58	26	5	28 8	2 13	4 2	16	12	32	543 537	415 411	24.0 24.5	0.76 0.76					
10X5-3/4X26 40.00 FT	D 132267	16 7,552	18	20	66	12	10	29 9	2 10	3 2	17	13	34	565 562	430 428	23.5 24.5	0.76 0.76					
10X5-3/4X26 40.00 FT	D 132275	8 3,776	19	14	70	31	6	28 10	3 24	3 2	18	11	39	560 554	422 418	25.0 25.5	0.75 0.76					
10X5-3/4X26 40.00 FT	D 132276	32 15,104	17	16	59	35	6	24 8	2 20	3 3	14	12	33	549 550	417 418	25.5 25.0	0.76 0.76					
10X5-3/4X30 40.00 FT	D 132304	56 30,464	17	16	59	22	4	24 9	2 14	3 2	17	11	32	525 534	393 398	26.5 26.0	0.75 0.74					
SUB TOTAL		392 150,496																				

(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