


Buque A-Chat

T2

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

		X
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20160305386 - 1	
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			
4X4X13 40.00 FT	D 132709	48 11,328	16	15	59	26	5	30 11	2 14	4 3	18	13	32	536 532	398 394	23.5 23.0	0.74 0.74					
8X4X10 40.00 FT	D 132854	84 15,204	17	16	63	23	7	32 9	2 18	3 8	17	13	34	542 538	426 421	25.5 26.0	0.79 0.78					
8X4X10 40.00 FT	D 132855	36 6,516	16	14	60	25	9	27 8	2 17	2 4	16	11	32	537 539	425 430	25.0 25.0	0.79 0.80					
8X4X13 40.00 FT	D 132879	132 31,152	17	16	59	22	6	28 9	2 16	3 2	16	12	33	514 510	400 396	27.5 28.0	0.78 0.78					
8X4X15 40.00 FT	D 132597	36 9,792	17	14	65	25	13	31 11	2 18	3 3	16	19	35	528 524	412 408	24.0 25.0	0.78 0.78					
8X4X15 40.00 FT	D 132598	96 26,112	18	18	57	20	10	27 9	2 14	4 1	14	14	33	531 522	421 413	24.0 24.5	0.79 0.79					
8X4X15 40.00 FT	D 132599	24 6,528	17	15	57	24	6	26 9	2 15	3 2	17	14	32	524 520	399 395	24.0 25.0	0.76 0.76					
12X4X14 40.00 FT	D 132533	60 15,240	18	16	57	25	8	25 10	2 20	2 3	16	12	34	550 547	420 418	25.5 26.0	0.76 0.76					
12X4X14 40.00 FT	D 132543	24 6,096	18	14	59	21	7	26 9	2 13	2 2	17	11	33	538 532	414 412	24.0 25.5	0.77 0.77					
SUB TOTAL		540 127,968																				

(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

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

General Manager of Q.A Team