

Contract No.	Z230506417
Customer	HYUNDAI CORPORATION
PO No.	F230500317
L/C No.	L0201306FS02446
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G4021-13 50WM(345WM)

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

 	
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Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20230800009-1
Class certificate No.	
Issue date	2023-08-16

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition														Tensile Test			Yield Ratio(%)	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)						
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CE(1)	Tensile Strength	Yield Strength	Elongation (2)			V-Notch			°C							
					x100		x1000		x100			x1000		x10000	x100	N/mm2			%	-	-			-			-							
8X4X13	12.00 M	D 177897	69	16,008	15	17	62	27	6	26	10	2	19	4	2	16	103	32				543	421	24.5	0.776									
																						541	424	25.5	0.784									
8X8X31	12.00 M	D 178220	10	5,530	17	16	64	26	8	25	9	2	20	4	3	17	110	34				556	389	25.1	0.700									
																						547	380	24.9	0.695									
12X6-1/2X26	12.00 M	D 178095	90	41,760	15	16	60	24	5	24	10	2	21	4	1	15	93	32				548	420	24.3	0.767									
																						544	411	24.9	0.756									
TOTAL			169	63,298																														

===== E N D =====

(1) Ceq: (CE=C+(Cr+V+Mo)/5+(Cu+Ni)/15+Mn/6)
 (2) Gauge length : 200 mm
 (3) Y.R = Y.S/T.S

Note
 Melted and Poured in Republic of Korea

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