

Date: 12/8/2023 To: SENTRY SUPPLY dba SO#: A796087-1 Ln#: 1 PO#: PO245902-15 Part: W1209640\* Qty: 5  
 Heat#: n068900\* Tag: B02120723

Contract No.	Z230700955
Customer	SERVICE STEEL
PO No.	F230700110
L/C No.	SSW136781
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G4021-13 50MM(345MM)

**INSPECTION CERTIFICATE**  
**EN 10204(2004) TYPE 3.1**

**HYUNDAI STEEL**



Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20230700244-4
Class certificate No.	
Issue date	2023-08-04

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test			Yield Ratios	BEND TEST	Impact Test(L)			Remarks (Impact Specimen Size)		
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CE <sub>Eq</sub>	Tensile Strength	Yield Strength			Elongation	V-Notch	1		2	3
					×100			×1000			×100			×1000			<1000	<100	N/mm <sup>2</sup>	%			%	AVG	1		2	3
12X12X87	40.00 FT	N 068900	1	1,579	18	14	91	24	7	18	9	2	13	3	13	1	122	38	562	395	26.4	0.703						
																			561	376	26.8	0.671						
12X12X96	40.00 FT	N 068900	6	10,452	18	14	91	24	7	18	9	2	13	3	13	1	122	38	539	372	27.8	0.691						
																			541	375	26.8	0.694						
12X12X136	40.00 FT	N 068871	1	2,468	17	16	111	27	5	22	9	3	10	4	14	3	157	40	556	383	22.1	0.689						
																			553	371	22.6	0.671						
12X12X136	40.00 FT	N 068872	7	17,276	17	15	113	29	6	16	8	2	12	4	19	3	139	41	554	391	22.9	0.706						
																			552	385	23.2	0.698						
12X12X136	60.00 FT	N 068871	2	7,402	17	16	111	27	5	22	9	3	10	4	14	3	157	40	556	383	22.1	0.689						
																			553	371	22.6	0.671						
14X5X22	40.00 FT	D 178449	12	4,788	16	15	61	29	6	23	9	2	22	4	2	16	106	33	537	404	24.4	0.753						
																			536	407	24.2	0.760						
14X5X22	40.00 FT	D 178450	10	3,990	16	15	61	24	9	21	9	2	18	4	3	18	146	32	540	403	23.9	0.747						
																			542	405	23.6	0.748						
14X5X22	45.00 FT	D 178461	20	8,980	14	15	71	30	9	24	11	3	16	3	4	19	106	32	538	428	23.2	0.796						
																			537	425	24.0	0.792						
14X5X22	50.00 FT	D 178448	10	4,990	10	14	81	19	6	20	10	2	14	3	2	15	125	29	538	403	23.8	0.750						
																			539	399	23.4	0.741						
14X5X22	50.00 FT	D 178449	20	9,980	16	15	61	29	6	23	9	2	22	4	2	16	106	33	537	404	24.4	0.753						
																			536	407	24.2	0.760						
<b>SUB TOTAL</b>			<b>89</b>	<b>71,905</b>																								

\*\*\*\*\* NEXT \*\*\*\*\*

(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.**

*기정훈*  
 General Manager of QA Team

This test report can be verified the authenticity to scan the top-right QR code via 'Qreal' mobile app. 2023.08.04.13:58:22 9201675 HMS I 102(A)-3a A4(210x297)

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