


Date: 9/8/2023 To: SENTRY SUPPLY dba SO#: A781678 Ln#: 1 PO#: PO243982-1 Part: W0803560* Qty: 1 Heat#: D171906*
 Tag: B12090723

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Factory: 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
 Certificate No. IH20220406340-5
 Class certificate No. _____
 Issue date: 2022-04-22

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

Contract No.	
Customer	
PO No.	SSW125711
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 650/A592/CSA G40.21-13 50MM(3.63MM)

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test		BEND TEST			Impact Test(L)			Remarks (Impact Specimen See)									
																		Yield Strength (N/mm ²)	Elongation (%)	Yield Ratio (%)	V-Notch	Temp		AVG	1		2	3							
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N					CE _M	Temp						Temp						
8X8X31	50.00 FT	D 171904	18	12,654	17	13	62	30	11	28	11	3	23	2	2	14	101	35	526	412	24.9	0.784													
8X8X31	50.00 FT	D 171905	6	4,218	11	13	85	32	6	27	11	2	16	2	3	17	102	31	522	408	25.5	0.782													
8X8X31	60.00 FT	D 171903	30	25,320	16	15	64	34	8	31	11	2	20	2	2	15	93	34	496	396	24.9	0.799													
8X8X35	60.00 FT	D 171905	6	5,718	11	13	85	32	6	27	11	2	16	2	3	17	102	31	508	388	25.9	0.764													
8X8X35	60.00 FT	D 171906	12	11,436	11	14	84	31	10	27	11	2	17	3	2	16	108	31	548	416	25.0	0.760													
8X8X40	40.00 FT	D 171902	21	15,246	16	13	61	29	5	31	10	2	15	3	1	15	112	32	544	412	24.5	0.758													
8X8X48	40.00 FT	D 171898	18	15,678	19	20	72	34	6	24	11	3	20	3	2	14	123	38	519	402	26.3	0.775													
8X8X48	60.00 FT	D 171898	12	15,672	19	20	72	34	6	24	11	3	20	3	2	14	123	38	518	395	26.8	0.765													
10X4X12	35.00 FT	D 171049	4	764	16	14	62	28	6	26	10	2	22	3	2	16	130	34	526	391	26.2	0.744													
10X4X12	35.00 FT	D 171792	50	9,550	16	15	63	30	6	22	11	2	23	6	2	16	120	34	523	389	25.9	0.744													
SUB TOTAL			177	116,256																															

Note: Melted and Poured in Republic of Korea

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

General Manager of QA Team

J. E. Han

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.

This test report can be verified the authenticity to scan the top-right QR code via 'Qreal' mobile app.

2022.05.19.18:07:51

HMS 1102(A)-3a A4210(297)

Date: 9/8/2023 To: SENTRY SUPPLY dba SO#: A781678 Ln#: 2 PO#: PO243982-1 Part: W0803560* Qty: 1 Heat#: D171906* Tag: B12090723

HYUNDAI STEEL	
Factory	63, Jungbong-Daero, Dang-gu, Incheon, S. Korea
Certificate No.	IH20220406340-5
Class certificate No.	
Issue date	2022-04-22

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

Contract No.	
Customer	
PO No.	SSW125711
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 C53/A592/CSA G40.21-13 50MM(3.65MM)

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test			BEND TEST			Impact Test(I)			Remarks (Impact Specimen Size)						
					x100			x1000			x100			x1000			Yield Strength N/mm ²	Elongation %	Yield Ratio	Yield Strength N/mm ²	Yield Ratio	Yield Strength N/mm ²	Yield Ratio	Yield Strength N/mm ²	Yield Ratio	Yield Strength N/mm ²		Yield Ratio					
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb													N	CEq	1	2	3
8X8X31	50.00 FT	D 171904	18	12,654	17	13	62	30	11	28	11	3	23	2	2	14	101	35	526	412	24.9	0.784											
8X8X31	50.00 FT	D 171905	6	4,218	11	13	85	32	6	27	11	2	16	2	3	17	102	31	496	396	24.9	0.799											
8X8X31	60.00 FT	D 171903	30	25,320	16	15	64	34	8	31	11	2	20	2	2	15	93	34	548	416	25.0	0.760											
8X8X35	60.00 FT	D 171905	6	5,718	11	13	85	32	6	27	11	2	16	2	3	17	102	31	519	402	26.3	0.775											
8X8X35	60.00 FT	D 171906	12	11,436	11	14	84	31	10	27	11	2	17	3	2	16	108	31	526	391	26.2	0.744											
8X8X40	40.00 FT	D 171902	21	15,246	16	13	61	29	5	31	10	2	15	3	1	15	112	32	536	388	22.5	0.724											
8X8X48	40.00 FT	D 171898	18	15,678	19	20	72	34	6	24	11	3	20	3	2	14	123	38	539	385	24.0	0.715											
8X8X48	60.00 FT	D 171898	12	15,672	19	20	72	34	6	24	11	3	20	3	2	14	123	38	576	399	24.0	0.693											
10X4X12	35.00 FT	D 171049	4	764	16	14	62	28	6	26	10	2	22	3	2	16	130	34	572	413	22.0	0.723											
10X4X12	35.00 FT	D 171792	50	9,550	16	15	63	30	6	22	11	2	23	6	2	16	120	34	539	446	23.2	0.828											
SUB TOTAL			177	116,256																													

===== NEXT =====

Note
Melted and Poured in Republic of Korea

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

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

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