

Date: 8/18/2023 To: SENTRY SUPPLY dba SO#: A778648 L#: 1 PO#: P0243536-01 Part: W1001220+ Qty: 1
 Heat#: d174936+ Tag: B09081723

Contract No.	
Customer	HYUNDAI CORPORATION
PO No.	462211ASV1
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G40.21-13 50MM(345MM)

INSPECTION CERTIFICATE
 EN 10204(2004) TYPE 3.1

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20221105452-8
Class certificate No.	
Issue date	2022-12-01

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 _M	Tensile Strength	Yield Strength	Elongation (%)	V-Notch	°C						
					x100		x1000		x100			x1000			<x1000	<x100	N/mm2	N/mm2	%	AVG	1	2	3						
8X8X67	40.00 FT	D 175270	6	7,296	19	14	72	25	4	25	9	2	18	4	2	17	88	37	568	378	25.3	0.666							
10X4X12	35.00 FT	D 174939	60	11,460	16	14	60	20	8	21	9	2	14	3	1	16	113	31	567	397	25.5	0.701							
10X4X12	40.00 FT	D 174935	50	10,900	15	14	61	20	6	26	9	2	14	4	2	18	112	31	555	429	25.3	0.773							
10X4X12	40.00 FT	D 174936	30	6,540	16	14	61	22	6	26	9	2	12	3	1	16	130	31	559	432	25.5	0.773							
10X4X12	40.00 FT	D 174938	70	15,260	16	15	62	15	4	21	9	2	10	3	1	16	116	31	533	410	25.6	0.770							
10X4X12	40.00 FT	D 174938	70	15,260	16	15	62	15	4	21	9	2	10	3	1	16	116	31	536	427	24.8	0.797							
10X4X12	45.00 FT	D 174934	17	4,165	16	16	61	21	5	26	10	2	12	4	1	16	126	31	548	429	24.8	0.783							
10X4X12	45.00 FT	D 174934	17	4,165	16	16	61	21	5	26	10	2	12	4	1	16	126	31	545	424	25.0	0.778							
10X4X12	45.00 FT	D 174935	30	7,350	15	14	61	20	6	26	9	2	14	4	2	18	112	31	558	426	25.3	0.764							
10X4X12	45.00 FT	D 174935	30	7,350	15	14	61	20	6	26	9	2	14	4	2	18	112	31	549	432	25.0	0.787							
10X4X12	50.00 FT	D 174934	31	8,432	16	16	61	21	5	26	10	2	12	4	1	16	126	31	533	409	25.5	0.768							
10X4X12	50.00 FT	D 174934	31	8,432	16	16	61	21	5	26	10	2	12	4	1	16	126	31	534	428	25.1	0.802							
10X4X12	50.00 FT	D 174935	74	20,128	15	14	61	20	6	26	9	2	14	4	2	18	112	31	533	410	25.6	0.770							
10X4X12	50.00 FT	D 174935	74	20,128	15	14	61	20	6	26	9	2	14	4	2	18	112	31	536	427	24.8	0.797							
10X4X12	60.00 FT	D 174936	18	5,886	16	14	61	22	6	26	9	2	12	3	1	16	130	31	533	410	25.6	0.770							
10X4X12	60.00 FT	D 174936	18	5,886	16	14	61	22	6	26	9	2	12	3	1	16	130	31	536	427	24.8	0.797							
SUB TOTAL			386	97,417															548	429	24.8	0.783							
																			545	424	25.0	0.778							

===== 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.

J. C. Han
 General Manager of Q.A Team