Date: 4/30/2023 To: SENTRY SUPPLY dba SO#: A761915 Ln#: 1 PO#: P0241210-1 Part: W1202240* Qty: 1 Heat#: d170146*
Tag: T08042823

Contract No.	
Customer	SERVICE STEEL
PO No.	SSW123130
L/C No.	
Commodity	**H-BEAM**
Specification	**ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM)**

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20211204204-12
Class certificate No.	
Issue date	2021-12-24

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CE(1)	Tensile Test Tensile Strength	Yield Strength	Elongation (2)	Yield Ratio(3)	BEND TEST	Impact Test(L) V-Notch °C AVG	1	2	3	(Imp
					×100			×1000		×100				×1000			×10000	×100	N/mm2		%	-	-	-				
12X4X19	60.00 FT	D 170200	24	12,408	16	14	61	28	7	21	8	2	17	2	1	15	123	32	524 523	425 431	27.5 26.8	0.812 0.825						
12X4X22	35.00 FT	D 170147	24	8,376	17	15	61	23	9	21	10	2	26	3	3	16	110	35	565 564	426 417	26.3 27.0	0.754 0.740						
12X4X22	40.00 FT	D 170147	23	9,177	17	15	61	23	9	21	10	2	26	3	3	16	110	35	565 564	426 417	26.3 27.0	0.754 0.740						
12X4X22	45.00 FT	D 170146	16	7,184	16	22	61	28	5	22	9	2	27	3	3	16	120	34	567 567	419 425	26.8 26.0	0.739 0.750						
12X4X22	45.00 FT	D 170147	6	2,694	17	15	61	23	9	21	10	2	26	3	3	16	110	35	565 564	426 417	26.3 27.0	0.754 0.740						
12X4X22	50.00 FT	D 170146	20	9,980	16	22	61	28	5	22	9	2	27	3	3	16	120	34	567 567	419 425	26.8 26.0	0.739 0.750						
12X4X22	55.00 FT	D 170146	18	9,882	16	22	61	28	5	22	9	2	27	3	3	16	120	34	567 567	419 425	26.8 26.0	0.739 0.750						
12X4X22	60.00 FT	D 170147	16	9,584	17	15	61	23	9	21	10	2	26	3	3	16	110	35	565 564	426 417	26.3 27.0	0.754 0.740						
12X6-1/2X26	35.00 FT	D 170165	22	9,086	16	17	62	25	8	25	9	2	16	2	1	15	118	32	535 540	380 383	28.1 27.6	0.711 0.710						
12X6-1/2X26	45.00 FT	D 170161	18	9,558	18	16	63	24	11	26	9	1	9	2	3	17	0	33	518 518	380 377	27.4 28.2	0.734 0.728						
SUB TOTAL			**187**	**87,929**																								

====== N E X T ======

(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 C

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

2022.01.05.15:38:01

HMS I 102(A)-3a