Date: 9/22/2023 To: SENTRY SUPPLY dba SO#: A783479-1 Ln#: 1 PO#: P0244258-01 Part: W1204540* Qty: 1 Heat#: D175089*
Tag: B09092223

Contract No.	
Customer	HYUNDAI CORPORATION
PO No.	462211ASV1
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.	IH20221105452-17
Class certificate No.	
Issue date	2022-12-01

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	N	CEm	Tensile Test Tensile Strength	Yield Strength	Elongation	Yield Ratio(%)	BEND TEST	Impact Test(L) V-Notch AVG	1	2	3	Remarks (Impact Specimen Size)
					×100			×1000		×100				×1000			×1000	×100	N/mm2		%	-	-				℃	
12X8X40	40.00 FT	D 175091	12	8,712	17	17	61	25	6	27	10	2	15	4	2	16	128	33	527 512	397 385	25.7 26.2	0.754 0.752						
12X8X40	40.00 FT	D 175096	8	5,808	16	15	64	25	9	25	9	2	22	3	2	16	113	34	495 493	392 376	27.5 28.1	0.792 0.763						
12X8X40	40.00 FT	D 175102	20	14,520	16	12	60	23	12	21	8	2	13	3	2	15	112	31	536 529	386 378	27.3 26.0	0.721 0.715						
12X8X40	55.00 FT	D 175091	12	11,976	17	17	61	25	6	27	10	2	15	4	2	16	128	33	527 512	397 385	25.7 26.2	0.754 0.752						
12X8X40	60.00 FT	D 175103	36	39,204	17	15	67	28	15	25	10	2	19	3	2	15	138	35	493 488	362 363	27.2 26.4	0.735 0.744						
12X8X45	40.00 FT	D 175089	23	18,768	16	17	62	21	3	25	10	2	15	4	2	17	119	32	537 541	391 387	26.0 24.8	0.729 0.716						
12X8X45	50.00 FT	D 175089	12	12,252	16	17	62	21	3	25	10	2	15	4	2	17	119	32	537 541	391 387	26.0 24.8	0.729 0.716						
12X10X53	40.00 FT	E 234768	12	11,532	17	15	62	24	6	23	8	2	12	4	13	1	114	32	514 514	379 376	26.5 28.5	0.738 0.732						
12X12X65	35.00 FT	E 233895	7	7,224	17	14	93	21	6	21	7	2	13	3	15	1	115	38	541 541	403 398	26.0 28.5	0.745 0.736						
12X12X65	35.00 FT	E 233896	3	3,096	18	15	93	25	3	19	8	2	22	3	15	1	135	40	550 549	408 402	26.0 27.0	0.742 0.733						
SUB TOTAL			**145**	**133,092**																								

====== 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.

General Manager of Q.A Team

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

2022.12.05.17:19:06