Contract No.	
Customer	DUFERCO
PO No.	32201806C411
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.	IH20180706494-1
Class certificate No.	
Issue date	2018-07-31

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	$CE_{(1)}$	Tensile Test: Tensile Strength	Yield Strength	Elongation (2)	Yield Ratio(3)	BEND TEST	Impact Test(L) V-Notch AVG	1	2	3 (℃)	Remarks (Impact Specimen Size)
					×100			×1000		×100				×1000				×100	N/mm2		%	-	-	-				
4X4X13	40.00 FT	D 138607	24	5,664	9	20	149	9	2	12	5	1	6	32	3	33	9	36	532 536	435 438	26.0 25.0	0.818 0.818						
4X4X13	40.00 FT	D 148044	73	17,228	17	16	60	25	7	25	11	2	20	4	3	18	10	34	523 520	391 389	24.5 25.0	0.748 0.749						
4X4X13	40.00 FT	D 148048	60	14,160	16	15	61	20	5	25	10	2	18	3	3	15	10	33	519 525	384 390	24.0 25.5	0.740 0.743						
4X4X13	40.00 FT	D 148055	84	19,824	19	18	60	15	6	22	9	2	12	3	1	15	10	34	516 518	378 386	26.0 25.5	0.733 0.746						
4X4X13	40.00 FT	D 148056	348	82,128	17	16	60	15	6	25	10	2	9	3	2	15	14	32	528 523	402 396	23.5 24.0	0.762 0.758						
4X4X13	40.00 FT	D 148057	96	22,656	16	17	60	26	7	26	10	2	18	3	3	16	11	32	514 519	387 391	24.0 24.5	0.753 0.754						
4X4X13	40.00 FT	D 148058	48	11,328	16	16	63	25	7	27	10	2	23	3	3	15	11	34	543 548	420 424	23.5 23.0	0.774 0.774						
4X4X13	40.00 FT	D 148059	12	2,832	19	17	61	19	5	25	10	2	15	3	2	15	13	35	537 532	412 416	23.5 24.0	0.768 0.782						
12X12X136	40.00 FT	E 205871	10	24,680	17	18	114	19	9	24	9	2	10	3	12	2	8	41	553 558	368 372	25.5 25.5	0.666 0.667						
12X12X136	40.00 FT	E 205872	5	12,340	18	18	117	23	9	26	9	1	9	3	13	3	11	42	564 562	376 368	24.0 25.0	0.667 0.655						
SUB TOTAL			**760**	**212,840**	====== N E X T ======																							

ORIGINAL

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

Note

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