



31794

OCEAN PROCESS

Contract No.	
Customer	DUFERCO
PO No.	32201801CF11
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.	JH20180400868-2	
Class certificate No.		
Issue date	2018-04-05	

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test			Yield Ratio	BEND TEST	Impact Test(I)				Remarks (Impact Specimen Size)		
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CEq	Tensile Strength	Yield Strength			Elongation (%)	V-Notch	°C				
					x100		x1000		x100		x1000		x100		x1000		x100		N/mm2	%			-	AVG	1	2		3	
27X10X114	40.00 FT	N 041522	6	12,408	18	15	94	28	9	22	9	2	14	3	13	2	10	39	551	405	28.0	0.736							
27X10X114	40.00 FT	N 041523	20	41,360	18	21	95	25	11	20	9	2	13	2	14	2	9	39	556	394	26.5	0.709							
27X10X114	40.00 FT	N 041587	16	33,088	18	14	96	23	8	20	9	2	13	2	14	1	9	39	542	388	26.5	0.716							
27X10X114	40.00 FT	N 041588	20	41,360	18	14	96	21	9	23	9	2	12	2	16	3	10	39	537	378	28.0	0.704							
27X10X129	40.00 FT	N 041570	2	4,682	17	16	110	25	9	28	8	2	14	2	14	1	11	41	563	399	25.5	0.709							
27X10X129	40.00 FT	N 041571	19	44,479	17	16	111	24	7	28	8	2	13	2	14	1	12	41	566	402	25.0	0.711							
27X10X129	40.00 FT	N 041572	30	70,230	18	17	111	24	7	28	8	2	16	3	14	1	12	43	579	391	24.5	0.676							
27X10X129	40.00 FT	N 041573	26	60,866	17	16	110	23	8	26	8	2	14	2	15	1	11	41	574	413	23.5	0.720							
27X10X129	40.00 FT	N 041574	4	9,364	17	18	112	24	7	24	9	2	12	2	15	2	10	41	573	398	25.0	0.695							
TOTAL			393	550,297																									

***** END *****

Note
 (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

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 QA Team