MILL TEST CERTIFICATE

CERTIFICATE NO : HIE2013-130 PAGE : 1

DATE OF ISSUE : Jun. 03, 2013

L/C NO (P/O NO) : 0173680610301949

COMMODITY : ERW STEEL STRUCTURAL TUBING

SPECIFICATION : ASTM A500 GR.B

CUSTOMER : FORTACERO SA DE CV

HISTEEL CO., LTD.

INCHON PLANT : 8BBLOCK 4LOT, GOZANDONG, NAMDONG-KU, INCHON, KOREA
TEL : (032)815-6386-8
FAX : (032)815-6389

SEOUL OFFICE : 57-8, CHUNGMU-RO 3-GA, JUNG-KU, SEOUL, KOREA
TEL : (02)2273-2141-3
FAX : (02)2273-2157

TYPE OF PIPE END	DIMENSION (OUTDIA. × THICK. × LENGTH)			QUAN-TITY (PCS)	WEIGHT (KG)	HEAT-NO.	TENSILE TEST			CHEMICAL COMPOSITION																		IMPACT TEST (0 °C)				REMARK (HARDNESS)
							YIELD STRENGTH	TENSILE STRENGTH	(EL)																			ENERGY				
※1	※2	※3	※4				PSI	B ※6	%	※8	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Nb	V	Ti	Al	CE	N	CEQ	PCM	X-axis	X1	X2	X3
											×100			×1000		×1000				×1000				X1000				JOULE				
BPE	NB	10"X10"X0.250"X40'		552	326,404	SR93632	46,977	64,521	25	H	17	2	17	13	2																	
BPE	NB	10"X10" X 0.312" X 40'		148	108,445	SR93689	47,267	66,116	27	H	17	2	17	13	2																	
BPE	NB	10"X10" X 0.500" X 40'		26	29,449	SR93777	49,587	70,320	25	H	17	3	20	11	2																	
BPE	NB	4"X4" X 0.375" X 40'		648	203,041	SR93657	46,107	65,248	26	H	17	3	17	12	2																	
BPE	NB	6"X4" X 0.375" X 40'		78	31,668	SR93577	47,267	65,246	23	H	18	2	18	16	2																	
BPE	NB	6"X6" X 0.187" X 40'		552	145,368	SR93463	53,502	68,001	37	H	16	2	17	15	2																	
BPE	NB	6"X6" X 0.250" X 40'		419	110,342	SR93693	47,847	67,276	36	H	17	2	17	12	2																	
BPE	NB	6"X6" X 0.250" X 40'		297	102,475	SR93648	48,282	64,956	26	H	17	2	19	16	2																	
BPE	NB	6"X6" X 0.375" X 40'		648	223,582	SR93709	49,152	67,421	23	H	17	2	18	8	2																	
BPE	NB	6"X6" X 0.500" X 40'		84	41,887	SR93635	46,252	63,706	25	H	17	2	18	14	3																	
BPE	NB	6"X6" X 0.500" X 40'		280	179,222	SR93651	46,397	65,826	24	H	17	2	19	11	2																	

※9 P. S. A	※10 VISUAL & DIMENSION TEST	※11 FLATTENING (B) TEST	※12 WELD DUCTILITY TEST	※13 NONDESTRUCTIVE TEST (U.T)	※14 DRIFT TEST	※15 FLARING TEST	※16 CRUSH TEST	※17 REVERSE FLATTENING TEST
	GOOD							

NOTE) ※1 Type of pipe End

BPE :Black Plain End Square-cut
BPEB :Black Plain End Beveled
BTC :Black Threaded & Coupled
BVJ :Black Victaulic Joint
ETC :Enameled Threaded & Coupled
GPE :Galvanized Plain End Square-cut
GPEB :Galvanized Plain End Beveled
GTC :Galvanized Threaded & Coupled
GVJ :Galvanized Victaulic Joint

※ 2 NB:Norminal Bore, OD:Outside Diameter
※ 3 Unit (M:Meter, F:Feet, I:Inch)
※ 4 Unit (M:mm, I:Inch)
※ 5 G:Good
※ 6 Base Metal
※ 7 W : Weld Part
※ 8 H:Heat (Ladle) Analysis , P:Product Analysis
※ 9 POST SEAM ANNEALING
※ 10 Visual & Dimension Test
※ 11 Flattening or Bending Test
※ 12 Weld Ductility Test
※ 13 Nondestructive Test
※ 14 Drift Test
※ 15 Flaring Test
※ 16 Crush Test
※ 17 Reverse Flattening Test

SUPERVISOR

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN ACCEPED IN ACCORDANCE WITH THE PRESCRIBED SPECIFICATION AND ORDER

HISTEEL CO., LTD

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INSPECTION MANAGER

HISE-103-06(0)

Size : Please A4(210X297)

Plesa Anáhuac
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