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)815-6386-6
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 YIELD STRE-NGTH	TENSILE STREN-GTH	(EL)		CHEMICAL COMPOSITION C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Nb	V	Ti	Al	CE	N	CEQ	PCM	IMPACT TEST (0 ℃) ENERGY X-axis	X1	X2	X3	REMARK (HAR-DNESS)
※1	※2	※3 ※4				PSI	※6	%	※8	×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	65,246	26	H	17	3	17	12	2																
BPE	NB	6"X4" X 0.375" X 40'	76	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 0.187" 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 0.250" X 40'	648	223,582	SR93709	49,152	67,421	23	H	17	2	18	8	2																
BPE	NB	6"X6" X 0.375" X 40'	84	41,887	SR93635	46,252	63,796	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 ※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:mm, I:Inch)
※ 4 Unit (M:Meter, F:Feet, I:Inch)
※ 5 G:Good
※ 6 Base Metal
※ 7 W : Weld Part
※ 8 H:Heat (Ladle) Analysis , P:Product Analylics
※ 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

HISTEEL CO., LTD.

SUPERVISOR

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

INSPECTION MANAGER

HISE-103-06(0)

HISTEEL CO., LTD

UM / PRESIDA4(210X297)