

QUALITY CERTIFICATE



P/O No. : 22479
L/C No. : M933684

CERTIFICATE No. : 160113-021

ISSUED DATE : 2016.01.13

MANUFACTURED No. : 2015-12-225

COMMODITY : E.R.W SQUARE STEEL PIPE

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
KANGNAM-GU, SEOUL, KOREA

SUPPLIER : HUSTEEL CO., LTD.

SPECIFICATION : ASTM A500 GRADE-B

DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
YEONGAM-GUN, JEOLLANAM-DO, KOREA

CUSTOMER : PLESA ANAHUAC Y CIAS.,S.A. DE C.V.



Original certificate can be verified through QR Application.

NO.	HEAT_NO	QUAN-TITY	TYPE	ORDER SIZE			WEIGHT	TENSILE TEST					CHEMICAL COMPOSITION(%)																
				SIDE LENGTH	W.T	LENGTH		DIR.	TS	YS	EL	YR	WTS	DIV	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	CEQ	PCM
				inch	inch	ft			lb/ft	PSI	%	%	PSI		-2			-3			-4			-5	-3				
				*2					*3	*4			*5		*6														
10	N72462	27	BPE	12"X12"	0.312	40	48.58	L	72,661	57,432	32	79		P	16	2	50	17	5	15									
11	N72462	63	BPE	12"X12"	0.375	40	57.90	L	68,310	54,677	35	80		P	15	1	51	16	4	15									
12	N72642	17	BPE	12"X12"	0.500	40	75.99	L	70,775	57,432	37	81		P	16	2	52	16	5	16									

NO.	HYDROSTATIC TEST			HEAT TREATMENT	ZINC COATING TEST		THREADS		HARDNESS TEST	IMPACT TEST			*13 N · D · T (UT)	FLATTENING OR BEND TEST	VISUAL & DIMENSION	METALLOGRAPHIC TEST	RESIDUAL MAGNETISM
	T.P	H.T	RESULT		WZC	CST	TPI	ETL		(0) °C					GOOD		
	MPa	sec			g/m ²	TIMES	mm	HV		DIV	J (AVE)	SIZE	FLANGE TEST	REVERSE FLATTENING TEST	CRUSH TEST		
	*9				*11		*12			*7	*8	*8					

10																	
11																	
12																	

Latest edition per ASTM(2013)

COPY

N O T E	*1.Type of Pipe Ends				*2. O.D : Outside Diameter, W.T : Wall Thickness				*3. Direction L : Longitudinal, T : Transverse			
	BPE	Black Plain Ends	GPE	Galvanized Plain Ends					*4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload			
	BPEB	BPE Bevelled	GPEB	GPE Bevelled					*5. H : Heat analysis, P : Product analysis *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr :Trace *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone			
	BTE	Black Threaded Ends	GTE	Galvanized Threaded Ends					*8. Specimen Size -A:10x10mm, B:10x7.5mm, C:10x6.6mm, D:10x5.0mm, Direction : Transverse *9. T.P : Testing Pressure, H.T : Holding Time *10. Heat Treatment Seam Normalizing			
	BTC	BlackThreaded & Coupled	GTC	Galvanized Threaded& Coupled					*11. W.ZC : Weight of Zinc Coating, CST : Copper Sulphate Test *12. TPI : Threads per inch, ETL : Effective length of threads *13. NDT : UT, Reference Standard 3.2 ♂ Drilled Hole			

SURVEYOR	WE HERYBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1 (ISO 10474 3.1)	 MANAGER OF QA TEAM
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