

### MILL CERTIFICATE

NO (编号): 140324-5

CODE (编码): LZ/CX14-JL07D

CUSTOMER 订货单位	E-STEEL, INC.	We hereby certify that the material described herein has been manufactured and tested in accordance with above specifications and the results of all are acceptable. 兹为您单位制造之钢管, 经本公司质量管理部门标准技术条件及合同检验合格, 特发此证。				CERTIFICATE NO.	
PRODUCT 货物名称	ERW ROUND PIPE					CAR NO. 车号	
M.P 制造工艺	HPW	STANDARD 检查依据	ASTM A53/A53M	(-) N (-) Z	CONTRACT No. 合同号	R014010	

STEEL GRADE 钢级	HEAT NO. 炉号	SPECIFICATION 规格 (mm)	QTY 数量		CHEMICAL COMPOSITION 管坯化学成分 (%)																		
			MT (吨)	PCS (支)	C	Si	Mn	P	S	Cr	Mo	Al	Ni	N	Cu	Nb	V	Ti	B	Sn	Re	Ca	CEV
B	42-01935	Φ219.1*5.56*6150	32.053	178	0.14	0.14	0.30	0.030	0.028	0.009	0.010	-	0.021	-	0.033	-	0.000	-	-	-	-	-	-
B	420595	Φ219.1*6.35*6150	82.37	402	0.14	0.15	0.41	0.031	0.025	0.010	0.009	-	0.020	-	0.030	-	0.000	-	-	-	-	-	-
B	411443	Φ219.1*8.18*6150	125.343	479	0.16	0.14	0.38	0.030	0.028	0.011	0.015	-	0.022	-	0.032	-	0.001	-	-	-	-	-	-
B	410624	Φ219.1*8.18*6150	73.269	280	0.15	0.15	0.37	0.030	0.028	0.010	0.015	-	0.022	-	0.032	-	0.001	-	-	-	-	-	-

TOTAL 总计: ( 313.035 ) MT (吨) ( 1339 ) PCS (支)

MECHANICAL PROPERTY OF PIPE BODY 管体物理性能				MECHANICAL PROPERTY OF WELDING SEAM 钢管焊缝物理性能				HYDROSTATIC TEST 水压				
Y.S. (R <sub>0.2</sub> ) 屈服强度 MPa	T.S. (R <sub>m</sub> ) 抗拉强度 MPa	E.L. 伸长率 (%)	IMP 冲击功 (J)	SHEARING AREA 剪切面积	FLATTENING 压扁	T.S. 抗拉强度 MPa	IMP 冲击功 (J)	HARDNESS 硬度试验	WELDING SEAM 焊缝 100%	DELAMINATION OF PIPE END 管端分层	TEST PRESSURE 试验压力	DELAY TIME 保压时间
320	435	31.0	-	-	OK	445	-	-	OK	-	7.4 MPa	6s
325	445	30.0	-	-	OK	450	-	-	OK	-	8.4 MPa	6s
320	440	31.5	-	-	OK	450	-	-	OK	-	10.8 MPa	6s
320	440	31.5	-	-	OK	450	-	-	OK	-	10.8 MPa	6s

SIGN/SEAL OF THE THIRD PARTY DETECTION 第三方检验章章外											
NOTES						Y.S=YIELD STRENGTH 屈服强度 E.L=ELONGATION 伸长率 IMP=IMPACT VALUE (IND) 冲击功					

NOTES 说明: 1、Pressure pipes used with ordinary pipes will be regarded as ordinary ones.  
承压管与一般管混用时, 一律按一般管保证。  
2、Quality defects occurred in transit will be beyond our guarantee.  
运输装卸中造成的产品缺陷不予保证。  
3、Any changes by handwriting is invalid.  
本证明任何手写或改动均无效。  
4、This certificate should be proved valid with seal.  
本证明未加盖产品质量证明章无效。

INSPECTOR 检验员: 蔡世培  
CONSIGNOR 发货员: 陈培  
ISSUED DATE 发证日期: 2014.03.24

CODE (编号): LZ/CX14-JL07D

# 天津联众钢管有限公司

## TIANJIN UNITED STEEL PIPE CO., LTD

### PRODUCTION CERTIFICATE

NO (编号): 140324-5

CUSTOMER 订货单位	E-STEEL, INC.	We hereby certify that the material described herein has been manufactured and tested in accordance with above specifications and the results of all are acceptable. 兹为您单位制造之钢管, 经本公司质量管理部技术标准条件及合同检验合格, 特发此证。	CERTIFICATE NO.	
PRODUCT 货物名称	ERW ROUND PIPE		质检号	CAR NO. 车号
M.P 制造工艺	HPW	STANDARD 检查依据	ASTM A53/A53M	(-) N (-) Z
			CONTRACT No. 合同号	RU14010

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B	420695	Φ219.1*6.35*6150	82.37	402	0.14	0.15	0.41	0.031	0.025	0.010	0.009	0.020	-	0.030	-	0.000	-	-	-	-	-	-
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SIGN/SEAL OF THE THIRD PARTY DETECTION  
第三方检验签章处

NOTES 说明: 1. Pressure pipes used with ordinary pipes will be regarded as ordinary ones.  
承压管与一般管混用时, 一律按一般管保证。  
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4. This certificate should be proved valid with seal.  
本证明任何手写或改动均无效。本证明未加盖产品质量证明章无效。

INSPECTOR 检验员: 花世特  
CONSIGNOR 发货员: 陈培  
ISSUED DATE 发证日期: 2014.03.24