



# ELECTROSTEEL CASTINGS LIMITED

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Web : [www.electrosteel.com](http://www.electrosteel.com)  
CIN - L27310OR1955PLC000310

## MILL TEST CERTIFICATE

RO NO. : 210582\_75035216

16.09.2017

Buyer : Electrosteel USA, LLC  
1101, Louisville Road,  
Savannah, GA-31415  
USA

Invoice no & date : 75035216 Dated : 16.09.2017

Materials

- 1) Centrifugally cast (spun) ductile iron pipes, 8 inch class 50, socket & spigot, push-in-joint conforming to ANSI/AWWA C151/A21.51-02, internally slag cement mortar lined and black bituminous seal coat (NSF approved) externally metallic zinc and finally black bitumen coated.
- 2) Centrifugally cast (spun) ductile iron pipes, 10, 12 & 30 inch class 53, socket & spigot, push-in-joint conforming to ANSI/AWWA C151/A21.51-02, internally slag cement mortar lined and black bituminous seal coated (NSF approved) and externally no coated.
- 3) SBR NSF push on gaskets.

Material despatched : **Details as given in 'ANNEXURE'.**

Physical appearance : Pipes were physically checked and found satisfactory.

Surface : Inside & outside surface of pipes were visually examined and found satisfactory.

Straightness : Straightness of pipes were checked and found within permissible limit.

Ovality : Ovality of socket & spigot pipes were checked and found within the tolerance.

Dimensions : Dimensions of pipes were measured, values observed and found to conform to the specification ANSI/AWWAC151/A21.51-02.

Hydrostatic test : 100% pipes have been hydrostatically tested at a minimum pressure of 500 psi and found ok. No leakage, sweating and defects were observed.

Mechanical test : Sample from pipes were drawn during production and tested for mechanical properties (Tensile strength, % Elong and yield strength, Impact strength). Results were obtained and found to comply with the specification.

Internal lining : Pipes were internally slag cement mortar lined in accordance with ANSI/AWWA C104/A21.4-03(Made 182)

Internal coating : Inside black bituminous seal coat with a minimum thickness of 25 microns. (Material no. 1 & 2)

External coating : Visual inspection was carried out externally metallic zinc coated. Zinc deposition was found to contain over 200 gm/m<sup>2</sup>.

- Metallic Zinc

Markings

<p><b>Materials No. 1</b></p> <p>ECL logo, DI, DN, Class, weight (lbs), Electrosteel USA.com Spigot insertion mark PUSH TITE , NSF/ANSI 61, &lt;MH61191&gt;, Classified Water quality UL listed, 40 KS, INDIA, FM Year of manufacture</p>	<p><b>Materials No. 2</b></p> <p>ECL logo, DI, DN, weight (Kgs), Class Year of manufacture</p>
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For Electrosteel Castings Ltd.

Quality Assurance Deptt.



HEAD OFFICE : 19, CAMAC STREET, KOLKATA-700 017  
TEL : 91-33-7103-4400, 2283-9990, FAX : 91-33-2289 4340  
Regd. office : Rathod Colony, Rajgangpur, Orissa-770017



INVOICE NUMBER : 75035216

ANNEXURE

Details Of DI US PIPE :

SL No.	Standard	Size	Class	Qty(mtr)	Type Of Joint
1	ANSI/AWWA C151	008	T050	216.000	Push-In
2	ANSI/AWWA C151	010	T053	216.000	Push-In
3	ANSI/AWWA C151	012	T053	864.000	Push-In
4	ANSI/AWWA C151	030	T053	324.000	Push-In

Details Of RUBBER GASKETS :

SL No.	Item Description	Qty(pcs)
1	GASKET DI-PUSH ON-SBR-NSF-UL-CV,NB 8 IN	13.000
2	GASKET DI-PUSH ON-SBR-NSF-UL-CV,NB 10 IN	13.000
3	GASKET DI-PUSH ON-SBR-NSF-UL-CV,NB 30 IN	8.000

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Quality Assurance Dept.

