



**Hall  
Longmore**

**Steel Pipe for Water, Petro-chemicals,  
Gas, Construction and Mining**



## About Hall Longmore

Established in 1924, Hall Longmore is ranked amongst the leading international manufacturers of large diameter steel pipe for the transportation of water, gas and petro chemicals. In addition, the company holds a niche position in the construction and mining industries with its range of steel pipes. Hall Longmore is the largest operation of its kind in Africa south of the Sahara and has supplied pipe to more than 30 countries around the world.

The state-of-the-art manufacturing facilities feature the most modern pipe making equipment and technology driven coatings and linings application processes. Strategically located within South Africa, the manufacturing facilities have access to a large skilled and semi skilled labour pool and immediate access to all major roadways and ports that provide the links to local and international destinations.



State-of-the-art  
manufacturing  
facilities

Throughout its history, the Hall Longmore name has been synonymous with quality and to this end holds the esteemed accreditation of the American Petroleum Institute (API), ISO 9001:2008, BS OHSAS 18001:2007 and more recently has received ISO 14001 certification.

Hall Longmore is wholly owned by the Barnes Group of companies, South Africa.



# ERW

## Electric Resistance Welded Steel Pipe Ø 610 (EW) High-frequency Electric Welding

Hall Longmore ranks amongst the most reputable ERW pipe producers internationally and satisfies specifications set by leading oil and gas companies.

Outside Diameter		Ins	8	10	12	14	16	18	20	24
Wall Thickness		mm	219.1	273.1	323.9	355.6	406.4	457	508	610
Ins	mm									
0.177	4.5		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.188	4.8		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.197	5.0		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.219	5.6		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.237	6.0		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.250	6.4		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.277	7.0		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.307	7.8		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.315	8.0		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.344	8.7		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.365	9.3		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.375	9.5		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.394	10.0		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.472	12.0		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
0.500	12.7		Non-Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard



Standard



Non-Standard

### Steel Grade Availability

- SANS 1 431 Gr. 300WA
- API 5L X42 to PSL 1
- API 5L X52; X65 to PSL 1 or 2
- Other grades available on request

### Diameter Range

- From 219.1 mm to 610 mm
- Any other diameters / thicknesses available on request

### Lengths

- 9.144 metres (30 Feet)
- 12.192 metres (40 Feet)
- 18.288 metres (60 Feet)
- Other lengths available on request

The ERW manufacturing process features state-of-the-art in-line quality monitoring stations at each stage of production.

These include:

Steel Strip Lamination Inspection; Round forming which ensures perfect shape and edge geometry which is required for a consistent quality weld; Hi-Frequency Electric Welder ensures full control of the welding process; In-line Ultrasonic Systems monitor the weld integrity and measure weld bead geometry after internal and external scarfing; Seam Annealing; Sizing, Cut-off and Beveling which completes final pipe geometry, Hydrostatic Testing and Final Ultrasonic Inspection.

In-house testing facilities include: Hardness and tensile strength; Charpy V-notch; Spectrographic and Metallographic assessment and drop weight tear testing machine (DWTT).



# Steel Pipe Range

## SAW

### Spiral Welded Steel Pipe Sub-merged Arc Welded

Two spiral mills feature the latest welding and ultrasonic technology for the manufacture of spiral welded pipe. The mills conform to the highest specifications required by leading water, oil and gas customers.

Outside Diameter		Ins	26	28	30	32	34	36	38	40	42	44	46	48	52	56	60	64	68	72	76	80	84	90	92	96.5	100	
Wall Thickness		mm	660	711	762	813	864	914	965	1016	1067	1118	1168	1219	1321	1422	1524	1626	1727	1829	1930	2032	2134	2286	2337	2450	2540	
Ins	mm																											
0.197	5.0																											
0.203	5.2																											
0.210	5.3																											
0.219	5.6																											
0.237	6.0																											
0.250	6.35																											
0.277	7.0																											
0.281	7.1																											
0.307	7.8																											
0.312	7.9																											
0.315	8.0																											
0.322	8.2																											
0.330	8.4																											
0.344	8.7																											
0.365	9.3																											
0.375	9.5																											
0.394	10.0																											
0.406	10.3																											
0.438	11.1																											
0.469	11.9																											
0.472	12.0																											
0.500	12.7																											
0.551	14.0																											
0.562	14.3																											
0.591	15.0																											
0.625	15.9																											
0.630	16.0																											
0.688	17.5																											
0.709	18.0																											
0.719	18.3																											
0.750	19.0																											

From X42 to X65

#### Steel Grade Availability

- SANS 1 431 Gr. 300WA
- API 5L X42 to PSL 1
- API 5L X52; X65 to PSL 1 or 2
- Other grades available on request

#### Diameter Range

- From 660 mm to 2540 mm
- Any other diameters / thicknesses available on request

#### Lengths

- 9.144 metres (30 Feet)
- 12.192 metres (40 Feet)
- 18.288 metres (60 Feet)

#### 14.3 mm to 19 mm wall thickness

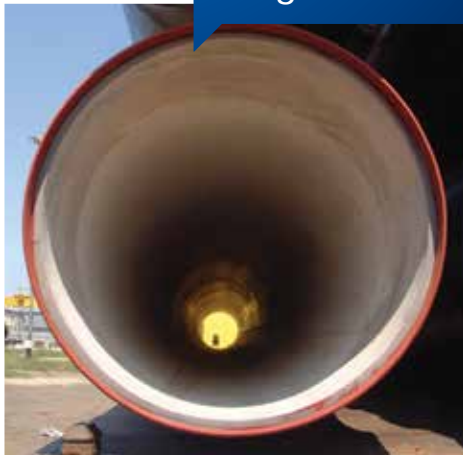
Availability and steel grade to be confirmed & dependant on design requirements.

## Corrosion Protection

Carbon steel piping is invariably exposed to some type of corrosive environment or high impact, load and soil stresses. This may require simple external paint coating or sophisticated internal and external coatings supplemented by a cathodic protection system.

Hall Longmore is an industry leader in the technology and application of protective coatings and linings to steel pipes. Applications are tailored to suit specialist corrosion engineers and international standards.

Industry leader in the technology and application of coatings and linings



## External Protective Coatings

- Fusion Bonded Epoxy Coating
- Sintakote II® Fusion Bonded Medium Density Polyethylene Coating
- 3-Layer High Density Coatings (3-LPE & 3-LPP)
- Liquid Epoxy Coating
- Tape Wrap System
- Modified Bitumen Bituguard® Coating

## Internal Protective Linings

- Liquid Epoxy Lining
- Cement Mortar / Concrete Lining

## 3-layer Coating for Steel Pipe

The Hall Longmore facility is fully equipped with the latest “sleeve-type” and “side head extrusion” 3-layer coating process.

- Sleeve-type extrusion designed for pipe diameters from 219 mm to 610 mm
- Side extrusion designed for pipe diameters up to 719 mm

3-Layer Coating is the generic term for a pipe outer coating comprising of FBE base or primer coat, an extruded copolymer adhesive intermediate layer and an extruded polyethylene top coat, as described by System B1 of the Canadian Specification Z245.21-02.

Fully equipped, modern on-site laboratories conduct tests on all 3-layer coatings in accordance with CSA Z245.20/21-02. These tests include: Cathodic Disbondment; Peel Adhesion; Elongation; Impact; Dust and Debris and EID (Holiday testing).



Custom coatings for specific operating conditions

## The high performance features of 3-layer coating include:

- High impact resistance
- High corrosion resistance with cathodic protection
- Excellent resistance to soil stresses
- Highly impermeable to water penetration
- Superior adhesion to steel
- Good flexibility
- Excellent insulation properties with long term resistance to stray current
- Can be customised to specific operating conditions by varying the thickness of the coating in line with specifications.

## Quality

The commitment by Hall Longmore to comply with international requirements and to consistently deliver quality products and services required by customers is a prerequisite. To ensure that all aspects of quality are seamlessly monitored, from supplier through to the finished product delivered to the customer, an effortless day to day management process of quality control is in place and is integral to the philosophy of the company. This ensures conformance and integration with the International Organization for Standardization's (ISO) 9001:2008; and the American Petroleum Institute (API) Specification Q1.



Working to the highest quality standards



In-house quality laboratories conform to a documented quality management system which is used to ensure compliance with the requirements of the relevant South African National Standard (SANS), Australian Standard (AS), British European Standard (BS & EN), American Petroleum Institute (API), Canadian Standards Association (CSA), Deutsches Institut für Normung (DIN), American Society for Testing & Materials (ASTM) and International Standards Organisation (ISO) standards.

The company has implemented and maintains an Environmental Management System for the manufacture of large bore steel pipes and related coatings. The management system fulfils the requirements of ISO 14001 : 2004 + Cor 1 : 2009.

Occupational Health and Safety: Hall Longmore has been certified that it has implemented and maintains an Occupational Health and Safety Management System (OHSMS) in accordance to the requirements of BS OHSAS 18001 : 2007 standard.

# Petrochemical Pipeline Projects

## International

### Australia

#### Queensland Gas

- 35km gas line. OD: 406 mm / 508 mm.  
API 5L X60. PSL 2. 3LPE coating.

### Nigeria

#### Obajana Cement PLC

- 147km gas line. OD: 324 mm & 457 mm.  
API X52 & X65. 3LPE coating.

### Tanzania

#### Mtwara Pipeline (A G & P Gas)

- 28km gas line. OD: 219 mm.  
API 5L X52. 3LPE coating.

### Tanzania

#### A G P Gas

- 84km gas line. OD: 219 mm & 273 mm.  
API 5L X52. 3LPE coating.

## Southern Africa

### CPMZ Biera - Mutare Pipeline Phase 1

- 65 km gas line. OD: 273 mm.  
API 5L X52. 3LPE coating.

### CPMZ Mozambique

- 32km gas line. OD: 273 mm.  
API 5L X52. 3LPE coating.

## South Africa

### Mossgas Petrochemical Utilities

- 176km fuel line.  
API 5L X42 & X52.

### Sastech Temane

- 197km gas line. OD: 660 mm.  
API 5L X65. PSL 2.

### Sastech Pande

- 80km gas line. OD: 660 mm.  
API 5L X65.

### Transnet New Multi Product Pipeline (NMPP)

- 533km fuel trunk-line. OD: 610 mm.
- 164km distribution fuel line. OD: 406 mm.  
API 5L X65. 3LPE coating.

### GNP (Gauteng Network Pipeline)

- 150km diesel/fuel line. OD: 660 mm.  
API 5L X65. 3LPE coating.

### Egoli Gas Line

- 90km gas line. OD: 219 mm.  
API 5L X65. 3LPE coating.

### Sastech SNI Pipeline

- 147 km gas line. OD: 250 mm.  
API 5L X52. 3LPE coating.

## Contact Details

2 Osborne Road . Wadeville . Johannesburg

Telephone: +27(11) 874 7300

Facsimile: +27(11) 824 2878

Email: [info@hall-longmore.co.za](mailto:info@hall-longmore.co.za)

Web: [www.hall-longmore.co.za](http://www.hall-longmore.co.za)

