

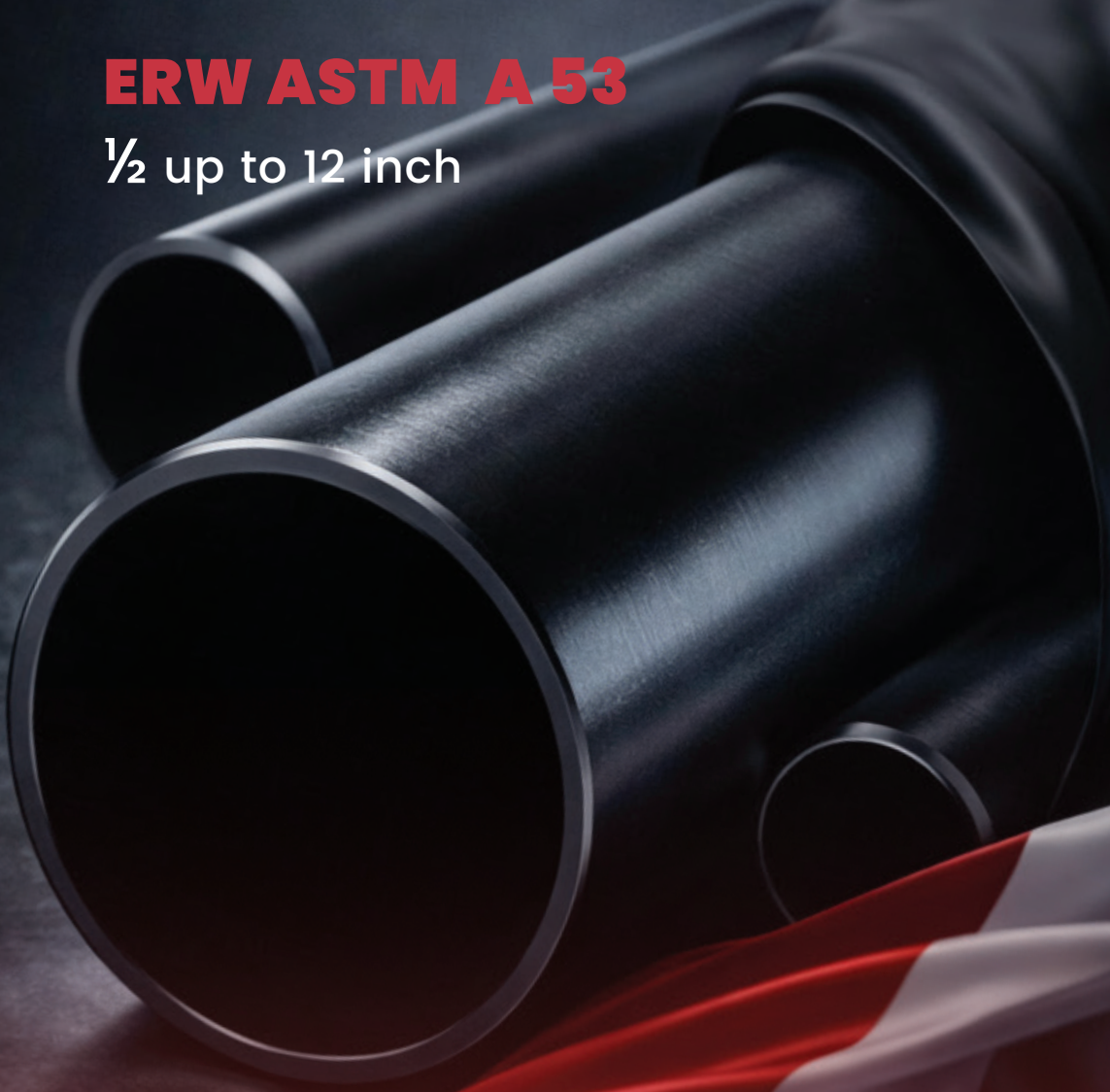


GAZELLE
TUBE

GAZELLE TUBE **TECHNICAL CATALOG**

ERW ASTM A 53

½ up to 12 inch



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ABOUT US

Gazelle Trade, established in 1982, is one of Egypt's long-standing companies in supplying complete piping and fittings packages for oil & gas, construction, petrochemical, and electromechanical projects.

Over decades of operation, Gazelle Trade has supported major projects through the supply of pipes, valves, flanges, fittings, gaskets, and related piping components, maintaining consistent material condition and project continuity through controlled warehousing and logistics.

Building on this extensive market and project experience, Gazelle Tube was established as the group's manufacturing arm, specializing in the production of locally manufactured ERW steel pipes and structural tubes.

Gazelle Tube combines the practical project knowledge of Gazelle Trade with a controlled manufacturing process, focusing on international standard compliance, dimensional accuracy, weld integrity, and product traceability.

Today, the Gazelle Group operates with a clear technical objective:

to support local and regional projects with reliable, consultant-acceptable piping solutions, bridging the gap between imported pipe quality and local manufacturing flexibility.

OUR VISION & MISSION

Our Vision

To become a technically approved local ERW pipe manufacturer, supporting civil, industrial, firefighting, oil & gas, and infrastructure projects with products that meet international standards and consultant expectations.

We aim to strengthen local manufacturing capabilities while delivering pipes that combine safety, reliability, and engineering confidence.

Our mission

- Provide ERW steel pipes manufactured under controlled and repeatable processes.
- Support consultants and project owners with clear, transparent technical data.
- Reduce technical and supply risks through reliable local manufacturing.
- Act as a long-term technical partner, not merely a material supplier.

COMMITMENT TO QUALITY & CERTIFICATIONS

Quality at Gazelle Tube is embedded in every stage of production, from raw material selection to final delivery.

Quality & Compliance Framework

- Implementation of an ISO-compliant Quality Management System.
- Continuous monitoring of manufacturing parameters and weld integrity.
- Full traceability for raw materials and finished products.
- Commitment to meeting project-specific technical and inspection requirements.

Certifications

ISO 9001.2015 – AMY& dqs - Quality Management System

UL solutions – Firefighting system compliance (where applicable)

EOS – Egyptian Organization for Standardization Under Process

SGS – Third-party testing and verification Under Process



Certificate of Compliance

Certificate Number:
UL-US-2439779-0

Report Reference:
EX29431-20241018

Issue Date:
2024-10-18

Issued to:
Gazelle Trade S.A.E
226 New Cairo Industrial Area Cairo
Egypt

This certificate confirms that representative samples of:
VIZY - Metallic Sprinkler Pipe
See Addendum Page for Product Designation(s).
Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.
UL 852, Edition 2, Issue Date 2008-10-01, Revision Date 2023-03-07

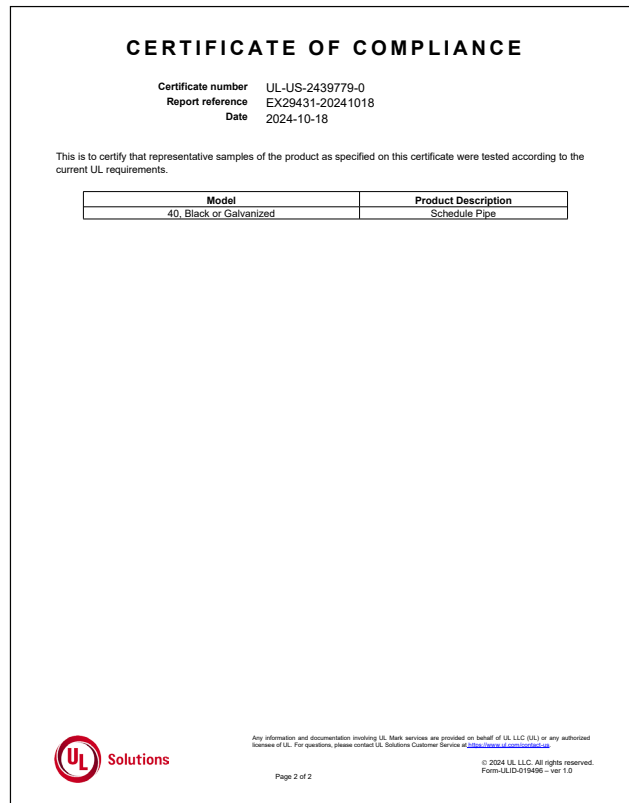
Additional Information:
See UL Product iQ® at <https://iq.ulprospector.com> for additional information.
This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.
Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.
Look for the UL Certification Mark on the product.


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Form:ULID019496 – ver 1.0


David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2439779-0
Report reference EX29431-20241018
Date 2024-10-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
40, Black or Galvanized	Schedule Pipe


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Form:ULID019496 – ver 1.0

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CERTIFICATE

This is to certify that

Gazelle Trade S.A.E.
78 El Gomhoria St., Downtown
11111 Cairo
Egypt

has implemented and maintains a **Quality Management System**.

Scope:
Sales and Logistics Services of ERW Pipes, Complete Pipe Systems' Accessories (Pipes, Valves, Flanges, Fittings and Gaskets) for Oil and Gas Industry and Electromechanical Construction Projects

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

Certificate registration no. 40050166 QM15
Valid from 2025-05-26
Valid until 2028-05-25
Date of certification 2022-05-26
Date of Re-issuing 2025-05-26

DQS GmbH

Markus Steiber
Markus Steiber
Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Holding GmbH, Konrad-Adenauer-Allee 5-10, 51118 Bad Vilbel, Germany
The validity of this certificate can only be verified by the QR code.

Page 1 of 2

Annex to Certificate
Registration No. 40050166 QM15

Location
400500199
Piece of Land No. 226,
Industrial Zone, New Cairo
Egypt

Scope
Manufacturing of ERW Pipes, Complete Pipe Systems' Accessories (Pipes, Valves, Flanges, Fittings and Gaskets) for Oil and Gas Industry and Electromechanical Construction Projects

DQS GmbH

Markus Steiber
Markus Steiber
Managing Director

This annex edition (2023-07-01) is valid only in connection with the above-mentioned certificate.

Page 2 of 2

CERTIFICATE OF COMPLIANCE

This is to certify that

Gazelle Trade S.A.E.

Implements and maintains a **Quality Management System** complying with

ISO 9001: 2015

For the scope of

Sales and Logistics Services of ERW Pipes, Complete Pipe Systems' Accessories (Pipes, Valves, Flanges, Fittings and Gaskets) for Oil and Gas Industry and Electromechanical Construction Projects

Management Address: 78 El-Gomhoria St., Down Town, Cairo - Egypt

Registration no.: EGY1011A QMS
EA/IAF code(s): 17, 29
Category code(s): NA
Valid from: 21.05.2025
Valid until: 20.05.2028
Initial registration: 21.05.2022

Assersja
Managing Director

AMY International
CAIRO OFFICES: Near City (Accredited Office) and Downtown
USA OFFICE: Albuquerque NM 87110
WWW.AMYINTERNATIONAL.ORG
The validity of this certificate can be verified by the QR Code.
This certificate remains valid subject to successful conduction of surveillance audits.

Page 1 of 2

EXERPT CERTIFICATE

EGY1011B QMS

Factory: Piece of Land No. 226, Industrial Zone, New Cairo - Egypt

Scope: Manufacturing of ERW Pipes, Complete Pipe Systems' Accessories (Pipes, Valves, Flanges, Fittings and Gaskets) for Oil and Gas Industry and Electromechanical Construction Projects

Address: Piece of Land No. 226, Industrial Zone, New Cairo, Egypt

Assersja
Managing Director

AMY International
CAIRO OFFICES: Near City (Accredited Office) and Downtown
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WWW.AMYINTERNATIONAL.ORG
The validity of this certificate can be verified by the QR Code.
This certificate remains valid subject to successful conduction of surveillance audits.
Note: Excerpt certificate is an integral part of the main certificate and shall not be valid without it.

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PRODUCT SCOPE

Gazelle Tube offers a comprehensive range of **ERW steel pipes** to meet diverse application needs.

Our product scope includes:



Civil & Structural Pipes:

For construction, scaffolding, and general structural applications.



Firefighting Pipes:

Specifically designed and certified for fire protection systems.



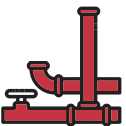
Gas Pipes:

For pipelines and related applications.



Infrastructure Pipes:

For water transmission, drainage, and utilities.



Industrial Pipes:

For process piping, material handling, and equipment fabrication.

Size Range: ½ inch to 12 inches

Wall Thickness: Schedule 10 to Schedule 40

APPLICATION-BASED SOLUTIONS



CIVIL & STRUCTURAL

- Buildings
- Bridges
- Scaffolding
- Support Structures

Our civil and structural pipes are engineered to provide reliable strength and durability for various construction applications. They meet industry standards and are available in a range of sizes and grades.



INDUSTRIAL

- Material Handling
- Equipment Fabrication
- Home appliance

Gazelle Tube's industrial pipes are designed to withstand demanding operating conditions in process plants, manufacturing facilities, and other industrial settings. They are available in various materials and specifications to suit specific application requirements.



FIREFIGHTING

- **Sprinkler Systems**
- **Fire Hydrant Lines**
- **Standpipe Systems**

Our firefighting pipes are specifically certified and listed for use in fire protection systems. They meet stringent requirements for pressure rating, corrosion resistance, and fire performance, ensuring reliable operation in critical situations.



INFRASTRUCTURE

- **Water Transmission**
- **Drainage Systems**
- **Utility Conduits**

Gazelle Tube provides durable and reliable pipes for infrastructure projects, including water transmission lines, drainage systems, and utility conduits. Our pipes are designed to withstand environmental factors and ensure long-term performance.



OIL & GAS

- **Gas pipelines**

Our oil and gas pipes are manufactured to meet the demanding requirements of the energy sector. They are available in to handle high pressures and extreme temperatures.

MANUFACTURING PROCESS

Gazelle Tube employs a state-of-the-art **ERW (Electric Resistance Welding)** process to manufacture high-quality steel pipes. Our manufacturing process includes:

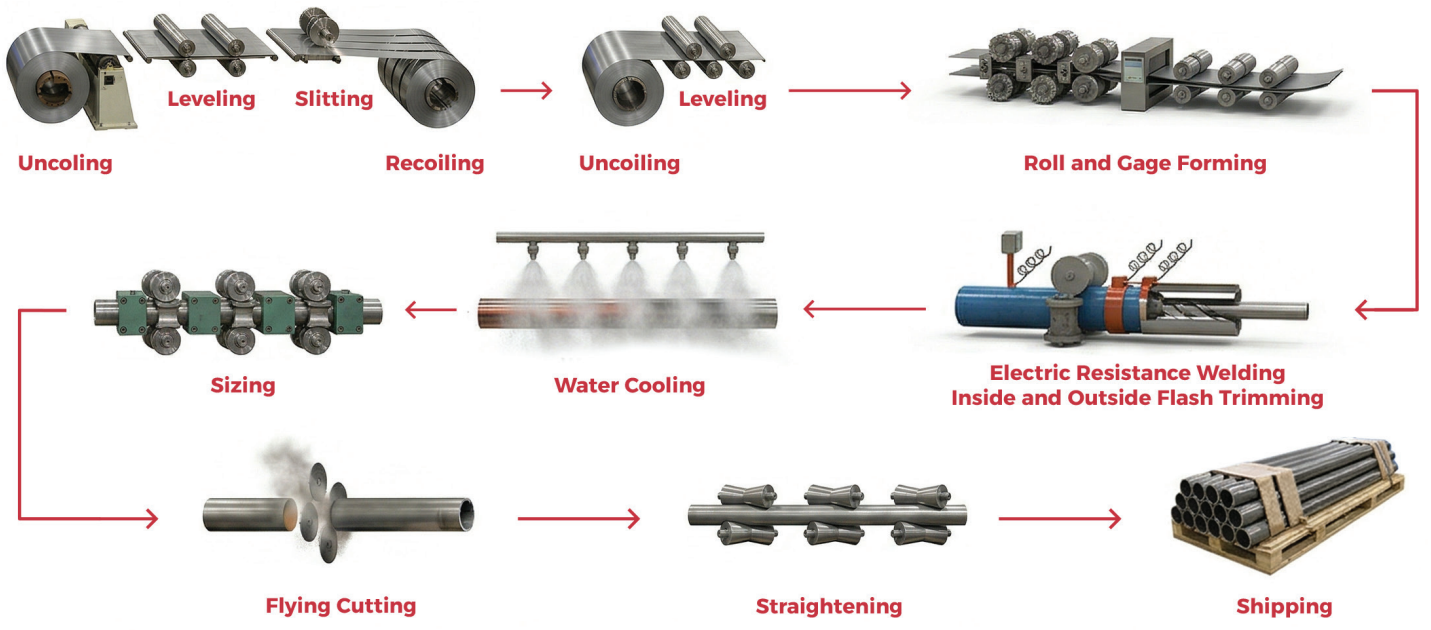
- 1. Raw Material Inspection:** Thorough inspection of incoming steel coils.
- 2. Uncoiling and Forming:** Steel coils are uncoiled and formed into a cylindrical shape.
- 3. Welding:** Edges are welded together using electric resistance welding.
- 4. Sizing and Straightening:** Pipes are sized and straightened to meet dimensional specifications.
- 5. Cutting:** Pipes are cut to the required length.
- 6. Inspection and Testing:** Rigorous inspection and testing to ensure quality and compliance.

ASTM A53 CARBON STEEL PIPES CHEMICAL COMPOSITION

Grade	Chemical Composition (%) Max.								
	C	Mn	P	S	Cu	Ni	Cr	Mo	V
A	0.25	0.95	0.05	0.045	0.4	0.4	0.4	0.15	0.08
B	0.3	1.2	0.05	0.045	0.4	0.4	0.4	0.15	0.08

ASTM A53 CARBON STEEL PIPES MECHANICAL PROPERTIES

Grade	Mechanical Properties, Min.	
	Tensile Strength(Mpa)	Yield Strength(Mpa)
A	330	205
B	415	240



END PREPARATION

Gazelle Tube offers various end preparation options to meet specific project requirements, including:

PLAIN END

For welding or mechanical connections.



BEVELED END

For welding with specific bevel angles.



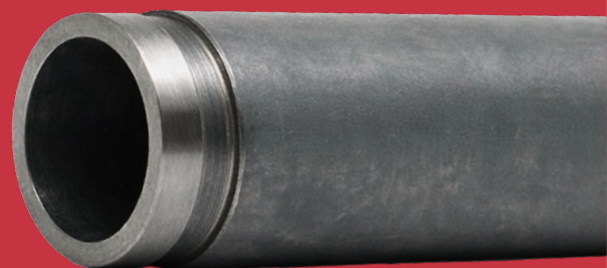
THREADED END

With NPT or BSPT threads.



GROOVED END

For mechanical coupling systems.



INSPECTION & TESTING

We conduct comprehensive inspection and testing procedures to ensure that our pipes meet the highest quality standards. Our testing capabilities include:

Hydrostatic Testing

To verify pressure rating

Non-Destructive Testing (NDT)

Including ultrasonic testing and eddy current testing to detect defects.

Tensile Testing

To determine tensile strength and yield strength.

Chemical Analysis

To verify material composition.

Dimensional Inspection

To ensure compliance with dimensional specifications.



SURFACE PREPARATION & COATING SYSTEMS

Steel pipes are subjected to controlled surface preparation and coating processes to ensure corrosion protection, durability, and extended service life in accordance with project requirements and applicable standards.

SURFACE PREPARATION



Performed by Shot Blasting or Sand Blasting to remove mill scale, rust, oil, and surface contaminants, achieving cleanliness grades Sa 2 / Sa 2.5 in accordance with ISO 1-8501, with controlled surface profile to ensure proper coating adhesion.

HOT DIP GALVANIZING



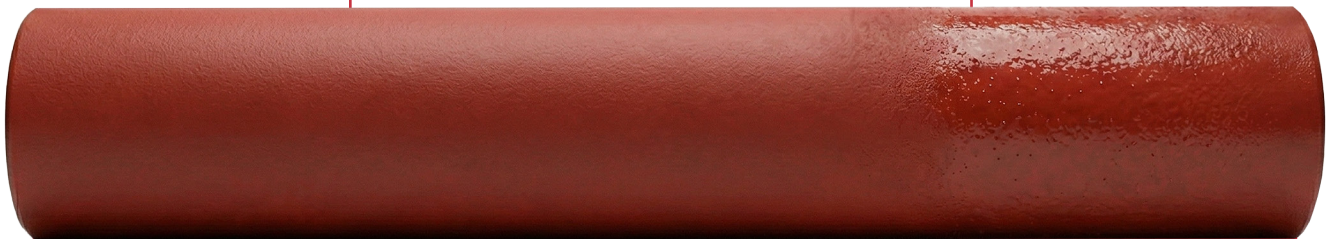
Applied by fully immersing circular steel pipes into a molten zinc bath, forming a uniform protective zinc layer on both internal and external surfaces, providing long-term corrosion resistance for harsh and outdoor environments.

BLACK PROTECTIVE COATING



Varnish, or synthetic paint) is applied to provide temporary corrosion protection during handling, storage, and transportation.

RED PRIMER COATING



Used as a base layer to provide initial corrosion resistance and enhance adhesion of subsequent finishing coats.

All surface preparation and coating systems are executed based on project specifications and relevant international standards, with coating thickness, adhesion, and visual inspections available upon request to ensure operational reliability and safety.

TECHNICAL TABLES & SPECIFICATIONS

ASTM A 53

ASTM A53 SCH40 DIMENSION,WEIGHT/L, TEST PRESSURE				
Pipe Size (inches)	Outside Diameter	Wall Thickness SCH 40	Pressure Rating (psi) G.A	Pressure Rating (psi)G.B
1/2"	21.33	0.10 (2.76)	700 (4800)	700 (4800)
3/4"	26.67	0.11 (2.87)	700 (4800)	700 (4800)
1"	33.40	0.13 (3.37)	700 (4800)	700 (4800)
1¼"	42.16	0.14 (3.55)	1000 (6900)	1100 (7600)
1½"	48.26	0.14 (3.68)	1000 (6900)	1100 (7600)
2"	60.32	0.15 (3.91)	2300 (15900)	2500 (17200)
2.5"	73.02	0.20 (5.15)	2500 (17200)	2500 (17200)
3"	88.90	0.21 (5.48)	2200 (15200)	2500 (17200)
4"	114.30	0.23 (6.02)	1900 (13100)	2200 (15200)
6"	168.27	0.28 (7.11)	1500 (10300)	1800 (12400)
8"	219.07	0.32 (8.17)	1300 (9000)	1600 (11000)
10"	273.05	0.36 (9.27)	1200 (8300)	1400 (9700)
12"	323.85	0.40 (10.31)	—	—

EN 10255 TYPE L

Specification for Standard Sizes EN 10255 DIMENSION,WEIGHT/L, TEST PRESSURE

Size (inch)	NB (mm)	OD Min (mm)	OD Max (mm)	WT (mm)	Weight Black	Weight S/S (kg/m)	Pressure
1/2"	15	21.0	21.7	2.3	1.08	1.09	50
3/4"	20	26.4	27.1	2.3	1.40	1.41	50
1"	25	33.2	34.0	2.9	2.20	2.22	50
1 1/4"	32	41.9	42.7	2.9	2.82	2.85	50
1 1/2"	40	47.8	48.6	2.9	3.25	3.29	50
2"	50	59.6	60.7	3.2	4.51	4.58	50
2 1/2"	65	75.2	76.0	3.2	5.75	5.87	50
3"	80	87.9	88.7	3.2	6.76	6.93	50
3 1/2"	90	100.3	101.2	3.6	8.70	8.88	50
4"	100	113.0	113.9	3.6	9.83	10.10	50
5"	125	138.5	140.8	4.5	15.00	15.50	50
6"	150	163.9	166.5	4.5	17.80	18.40	50

EN 10255 TYPE L1

Specification for Standard Sizes EN 10255 DIMENSION,WEIGHT/L, TEST PRESSURE							
Size (inch)	NB (mm)	OD Min (mm)	OD Max (mm)	WT (mm)	Weight Black	Weight S/S (kg/m)	Pressure
1/2"	15	21.0	21.7	2.3	1.08	1.09	50
3/4"	20	26.4	27.1	2.3	1.39	1.40	50
1"	25	33.2	34.0	2.9	2.20	2.22	50
1 1/4"	32	41.9	42.7	2.9	2.82	2.85	50
1 1/2"	40	47.8	48.6	2.9	3.24	3.28	50
2"	50	59.6	60.7	3.2	4.49	4.56	50
2 1/2"	65	75.2	76.3	3.2	5.73	5.85	50
3"	80	87.9	89.4	3.6	7.55	7.72	50
4"	100	113.0	114.9	4.0	10.80	11.10	50

ROUND PIPE

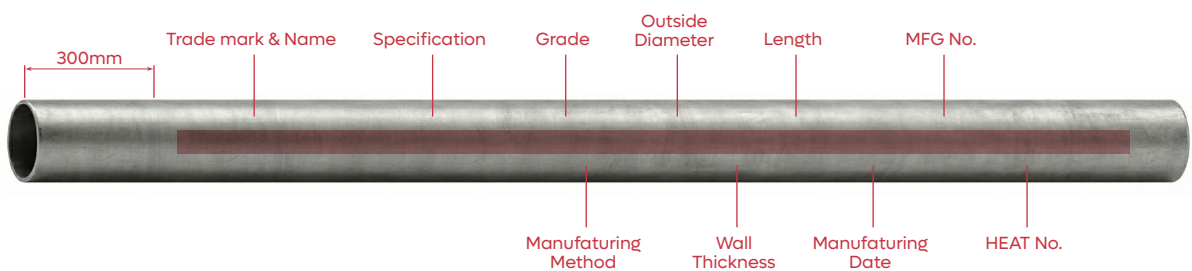
Commercial	
Pipe Size (inches)	Wall Thickness
1"	2 mm
1 1/4"	2.5 mm
1 1/2"	3 mm
2"	3 mm
2 1/2"	3.5 mm
3"	3 - 3.5 mm
4"	3 - 4 mm
6"	3 - 4 mm



MARKING & PACKING

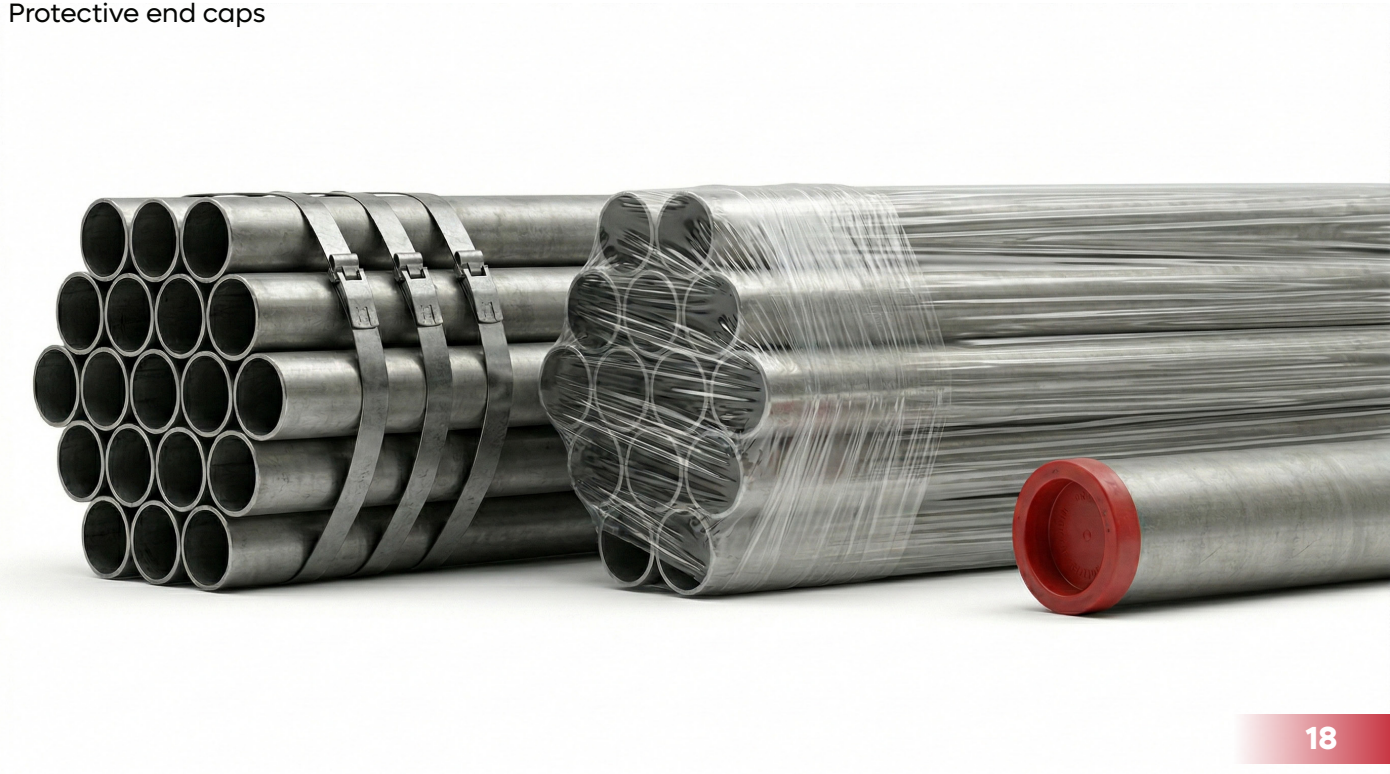
Our pipes are clearly marked with the following information:

- Manufacturer's Name: Gazelle Tube
- Size and Schedule
- Material Grade
- Specification
- Heat Number



Pipes are packed securely to prevent damage during transportation and storage. Packing options include:

- Bundles with steel straps
- Stretch Wrapper
- Protective end caps



WHY CHOOSE GAZELLE TUBE?

Gazelle Tube is selected by engineers and project stakeholders for its ability to combine local manufacturing flexibility with international technical compliance

KEY REASONS TO CHOOSE GAZELLE TUBE



Controlled ERW Manufacturing

Full control over welding, forming, and sizing processes ensures consistent product quality.



Application-Oriented Engineering

Products are specified based on real operating conditions, not generic descriptions.



Compliance with International Standards

Manufacturing in accordance with ASTM A53 and EN 10255, supported by defined testing protocols.



Quality Transparency

Clear technical tables, inspection records, and material traceability.



Local Manufacturing Advantage

Faster technical support, easier coordination, and alignment with regional project needs.

TECHNICAL APPROVAL & LABORATORY TESTING

Gazelle Tube's products undergo rigorous technical evaluation and laboratory testing to ensure compliance with industry standards and customer specifications. We maintain close relationships with accredited testing laboratories to provide independent verification of our product performance.

Detailed test reports and certifications are available upon request.





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