

TATA STEEL



INSTALL™ EN 10255 Advantages

Conveyance Tube: Building & Mechanical Services



INSTALL™ TUBE OFFERS MANY ADVANTAGES

Manufactured to EN 10255 and suitable for widespread conveyance applications.



Made in the UK using specifically selected hot rolled coil from a single source UK supplier

Our tube is expertly manufactured in Corby, using steel processed at our Port Talbot facility in Wales.

Tightly controlled chemical composition and mechanical properties

Specifically tailored compositions ensure consistency for yield, tensile performance and ductility.

Made using high quality fully killed steel

Fully deoxidised and treated with nitrogen-binding elements, eliminating any tendency for strain age embrittlement in service.

Controlled, high frequency induction welded tube manufacturing

HFI welding (>100 KHz) provides a robust and structurally integral join.

Undergoes a proven stretch reduction process

Ensuring all hot products experience a full and controlled normalising cycle for bendable, threadable and groovable products.

Hot products are processed at specifically selected furnace temperatures for consistency

Ensuring the desired recrystallised fine grain microstructure and stress relief of the heat affected zone.



Manufactured to exacting dimensional tolerances

Precision ground reduction roll stands ensure tight control of tube sizes.

KIWA GASTEC & DVGW approved

Third party approvals available in accordance with the requirements of the Gas/Water industry, demonstrating independent validation of product suitability for such applications.

CE marked to Category 3 & 4 in accordance with EN 10255 Annex ZA and the Construction Products Directive (CPD)

Third party approval of our manufacturing and testing capabilities ensuring product suitable for use in installations for the transportation, distribution, storage of gas, fuel or water.

Fully tested product

All products undergo both in-process Destructive Testing (DT) and Non-destructive Testing (NDT). We perform a range of crush, flare, tensile, bend, chemical composition and leak tightness tests to ensure INSTALL™ application suitability.

Range of sizes from OD17.2mm to OD165.1mm (10 to 150mm nominal bore)

We supply ODs as per the EN 10255 standard, other sizes can be satisfied using alternative products supplied by ourselves.

Available in light (L & L2), medium (MED) and heavy (HVY) weights

Providing the customer with choice, ensuring flexibility for application usage.

Standard (-0/+50mm) and exact (-0/+4mm) length tolerances

All our tube ends are processed to ensure clean, square contact faces, and offered with length and exact length tolerances tighter than those specified within EN 10255.

Our flexible process provides a choice of coated surface finishes

Self-colour, water based paints, galvanised and polymer coating options available, to meet customer demands and exacting expectations.

Choice of plain, screwed & socketed (S&S) or grooved ends as standard

Range of end finishes to suit end use, or provide jointing for quick installation.

Robust and reliable

Our steel tube provides a strong, tough and trustworthy product.

Weldable and bendable

Suitable for welding, cold and hot bending (within specified limits).

Thermal stability during typical operating conditions

Steel will not soften or flex when conveying typical fluids and gases.

Proven in service

INSTALL™ is a well-established and trusted brand that can be used with confidence.

Tube marking

Our products are continuously ink line marked, addressing any concerns relating to tube damage as a result of employing hard stamping methods. Our ink marking provides both product and manufacturing data for complete tracability.

Class A1 fire rating – suitable for sprinkler and fire defence systems and applications

INSTALL™ is non-flammable and fire inert, and does not need to be tested for fire risk.

Dedicated NL and UK account managers

Our skilled and motivated managers are available to deal with your questions and enquiries.

Technical experts to advise end users on application suitability

Our application and development experts are available to contact and can provide advice on product and application suitability, pressure ratings, service life and sustainability etc.

Widely and readily available from established and reputable stockholders

For large bulk orders we are also happy to consider direct delivery.



OUR COMMITMENT

We aim to provide customer service that matches the reliability and quality of our products. Technical support and well-managed product availability are important parts of our day-to-day operations.

Chemical composition (cast analysis) and mechanical properties

Steel Grade		Chemical Composition %				Mechanical Properties		
Steel Name	Steel Number	C max	Mn max	P max	S max	Upper Yield Strength R _{eh} min (MPa)	Tensile Strength R _m (MPa)	Elongation A min %
S195T	1.0026	0,20	1,40	0,035	0,030	195	320 to 520	20

Dimensional summary

Thread Size R (inch)	Specified Outside Diameter D (mm)	NB	Thickness (mm)									
			2.00	2.30	2.60	2.90	3.20	3.60	4.00	4.50	5.00	5.40
3/8	17.2	10		Medium		Heavy						
1/2	21.3	15	L2	L	Medium		Heavy					
3/4	26.9	20		L&L2	Medium		Heavy					
1	33.7	25			L2	L	Medium		Heavy			
1 1/4	42.4	32			L2	L	Medium		Heavy			
1 1/2	48.3	40				L&L2	Medium		Heavy			
2	60.3	50				L2	L	Medium		Heavy		
2 1/2	76.1	65					L&L2	Medium		Heavy		
3	88.9	80					L&L2		Medium		Heavy	
4	114.3	100						L&L2		Medium		Heavy
5	139.7	125									Medium	Heavy
6	165.1	150									Medium	Heavy

Light
 Medium
 Heavy

www.tatasteel.com

While care has been taken to ensure that the information contained in this brochure is accurate, neither Tata Steel Europe Limited, nor its subsidiaries, accept responsibility or liability for errors or for information which is found to be misleading.

Copyright 2010
Tata Steel Europe Limited

Tata Steel Nederland Tubes BV

Souvereinstraat 35

4903RH Oosterhout

Netherlands

T: +31 (0) 162 482 000

F: +31 (0) 162 435 393

info-tubes@tatasteel.com