

Pipework Solutions from Tata Steel: Fire rating

Robust and rigidly sound tubes with A1 fire rating

Tata Steel manufactures a range of premium quality steel tubular products suitable for use as pipework in building, engineering and industrial service applications.

Manufactured using fully killed steel from our own integrated steel making process, our tightly controlled steel chemistry provides full traceability, resistance to strain age embrittlement and consistent mechanical performance.



A1 fire rating

In accordance with European Commission Decision 96/303/EEC of 4 October 1996, amended by Council Decision of 28 September 2000, steel has a Class A1 fire rating in accordance with EN13501-1: 2002.

Therefore, all Tata Steel pipework and pressure products are A1 fire rated.

Non-combustible

Class A1 fire rating therefore classifies steel as a non-combustible product in a fire and means that steel products do not have to undergo additional testing to demonstrate their suitability and reaction to fire.

Coatings

Tata Steel provides a range of coating options for its pipework products, such as galvanized, water based paints and polymer coatings.

Health and safety data sheets are available for such coatings. Please contact one of our Customer Technical Services (CTS) experts for further details.

Building regulations

Steel's non-combustibility is also reflected in clause 8.7 of EN10255 and in Table A6 of the Building Regulations of England and Wales, Approved Document B, Fire Safety.

Tata Steel's tubes therefore satisfy the requirements contained in section 7, Table 3 and Table A6 of Approved Document B. This recognizes steel as a non-combustible material under option (a).

This allows steel tubes to be used, without restriction, in sizes up to 160mm ID (165.1mm OD), for applications either passing through floors or compartment walls.

NI building regulations

Tata Steel's pipework tubes will therefore also meet the identical requirements given in Northern Ireland Technical Booklet E – Fire Safety, paragraphs 1.8 and 3.7 and Table 4.8.

Scottish regulations

In Scotland, similar requirements are included in the Scottish Technical Handbook, 2013, section 2 Fire, sections 2.1.14, 2.9.29 and Table 2.20.

European regulations

For building regulations that apply in other European countries, please consult the relevant local bodies for guidance on specific requirements.

A1 fire rating product statement

This technical datasheet shows the CE mark statement for our CE marked products, in accordance with EN10255.

Building references

- EN13501-1: 2007 + A1 Fire classification of construction products and building elements. Part 1: Classification using test data from reaction to fire tests.
- The Building Regulations 2000, Approved Document B, "Fire safety" 2006 Edition.
- DFP (Northern Ireland) Technical Booklet E: 2012 – Fire Safety.
- The Scottish Technical Handbook, 2013, Section 2, Fire.
- The Building (Scotland) Regulations 2004, Schedule 5 - Building standards applicable to design and construction.

Disclaimer

This document is provided for guidance only. It refers only to technical suitability and does not absolve the user from legal obligations at any stage.

For suitability and compatibility of non Tata Steel fittings please contact your fittings supplier for further information.

Technical support

Our Customer Technical Services (CTS) experts are on hand to answer any product enquiries.


Please contact us via the Tubes Technical Helpline: +44 (0) 1536 404561

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		CPR CAT 3 & 4
Tata Steel, Tubes, PO Box 101, Weldon Rd, Corby, Northants NN17 5UA, United Kingdom		
2014		
EN 10255:2004+A1:2007 / prEN 10255:2012		
INSTALL PLUS	Non-Alloy steel tubes suitable for welding, threading and grooving	
Intended use: In installations for the transport, distribution, storage of water, gas/fuel intended for the supply of building heating/cooling and sprinkler systems		
Reaction to fire:	Euroclass A 1	
Minimum specified yield strength:	235 MPa	
Durability:	NPD	
Dimensions:	Pass	
Leak tightness:	Pass	

www.tatasteelconstruction.com

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