



REPORT
Assessment of the performance of construction products
1015-CPR-30-13693

Product: Non-alloy steel tubes suitable for welding and
threading pursuant to EN 10255:2004+A1:2007

Product type: See Chapter I

Customer: BMT-TRADE LTD
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1408 Sofia
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Manufacturer: BMT-TRADE LTD
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1 copy to the Engineering Test Institute

Assessment and verification of constancy of the performance of construction products in relation to their essential characteristics in accordance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC (Construction Products Regulation – CPR), as amended.

Further to the harmonised standard EN 10255:2004+A1:2007 (equivalent to ČSN EN 10255+A1:2007), Annex ZA, Table ZA.2, **System 3** as specified in Annex V to CPR in the list of systems for assessment and verification of constancy of performance applies to the product described hereinafter.

Certification scheme applied: CPR, System 3.

In accordance with the provisions of Item 1.4 (b), the notified testing laboratory assesses the performance on the basis of testing (based on sampling carried out by the manufacturer), calculation, tabulated values or descriptive documentation of the construction product.

I. Specification of the product (and its versions)

Non-alloy steel tubes suitable for welding and threading, heavy series H, medium series M and series L, L1 and L2, of the specified outside diameter and the nominal thickness according to EN 10255:2004+A1:2007. The tubes can be applied in installations for the transport/distribution/storage of gas/fuel intended for the supply of heating/cooling systems from the external storage reservoir or the last pressure reduction unit of the boiler/heater/cooler systems of the building(s).

Basic dimensions

Table 1

Products		Non-alloy steel tubes suitable for welding and threading							
Technical specification		EN 10255:2004+A1:2007							
Steel type		Non-alloy							
Steel designation		S 195T (1.0026)							
Nominal outside diameter D	H			M			L		
	Outside diameter max.	Outside diameter min.	Wall thickness T	Outside diameter max.	Outside diameter min.	Wall thickness T	Outside diameter max.	Outside diameter min.	Wall thickness T
17.2	17.5	16.7	2.9	17.5	16.7	2.3	17.4	16.7	2.0
21.3	21.8	21.0	3.2	21.8	21.0	2.6	21.7	21.0	2.3
26.9	27.3	26.5	3.2	27.3	26.5	2.6	27.1	26.4	2.3
33.7	34.2	33.3	4.0	34.2	33.3	3.2	34.0	33.2	2.9
42.4	42.9	42.0	4.0	42.9	42.0	3.2	42.7	41.9	2.9
48.3	48.8	47.9	4.0	48.8	47.9	3.2	48.6	47.8	2.9
60.3	60.8	59.7	4.5	60.8	59.7	3.6	60.7	59.6	3.2
76.1	76.6	75.3	4.5	76.6	75.3	3.6	76.0	75.2	3.2
88.9	89.5	88.0	5.0	89.5	88.0	4.0	88.7	87.9	3.2
Nominal outside diameter D	L1			L2					
	Outside diameter max.	Outside diameter min.	Wall thickness T	Outside diameter max.	Outside diameter min.	Wall thickness T			
17.2	17.4	16.7	2.0	17.1	16.7	1.8			
21.3	21.7	21.0	2.3	21.4	21.0	2.0			
26.9	27.1	26.4	2.3	26.9	26.4	2.3			
33.7	34.0	33.2	2.9	33.8	33.2	2.6			
42.4	42.7	41.9	2.9	42.5	41.9	2.6			
48.3	48.6	47.8	2.9	48.4	47.8	2.9			
60.3	60.7	59.6	3.2	60.2	59.6	2.9			
76.1	76.3	75.2	3.2	76.0	75.2	3.2			
88.9	89.4	87.9	3.6	88.7	87.9	3.2			

Note: Dimensions are given in mm.

II. List of submitted documentation

Table 2

No.	Submitted documentation:
1	Certificate according to BDS EN ISO 9001:2015 no. TRBA 100 0886 of 2018-01-10 valid until 2018-12-22, issued by TÜV Rheinland
2	Certificate of conformity of the factory production control no. 0036 - CPR - M - 056 - 2012 (Hot rolled products of structural steels) issued for company PJSC „ILYICH IRON & STEEL WORKS“ of 2016-01-29 valid until 2018-12-03
3	Work instruction no. 8.5/01 of 2017-08-01
4	Work instruction no. 8.5/02 of 2017-08-01
5	Work instruction no. 8.5/03 of 2017-08-01
6	Welding instruction WELDAC WCS 1030
7	Training certificate for the Eddycurrent testing system EDDYCHEK 5 of 2013-06-20
8	Installation and acceptance 12640/11.04.2013

III. Assessment of the performance on the basis of testing (based on sampling carried out by the manufacturer) and descriptive documentation

- Item 1.4 (b), System 3, Annex V of CPR, and Table ZA.2.2, Annex ZA of EN 10255:2004+A1:2007

Table 3

Essential characteristics	Harmonised standard provisions	Source materials; report
Mechanical properties		
1	Yield strength	EN 10255:2004+A1:2007 Art. 8.2 and Table 1, 9.3
2	Dimensional tolerances	EN 10255:2004+A1:2007 Art. 8.4.3 to 8.4.6, 9.7
3	Tightness: Gas and liquid	EN 10255:2004+A1:2007 Art. 8.5, 9.6
		Test Report 30-13693/Z Evaluation Report 30-13693/H
		Test Report 30-13693/Z Evaluation Report 30-13693/H
		Evaluation Report 30-13693/H

IV. Conclusion

Notified Body 1015 has assessed the performance of the construction product in accordance with the provisions of Item 1.4 (b), System 3, Annex V of CPR, and in accordance with Table ZA.2.2, Annex ZA of EN 10255:2004+A1:2007, and has determined the performance of essential characteristics of the product:

Non-alloy steel tubes suitable for welding and threading pursuant to EN 10255:2004+A1:2007

Table 4

Essential characteristics	Performance
Yield strength	Min. 195 MPa
Dimensional tolerances	Compliant
Tightness: Gas and liquid	Compliant

V. List of referenced documents

- Order of 2017-10-11 (Order reg. no. B-60556, received on 2017-10-11)
- Contract B-60556/30
- Test Report 30-13693/Z of 2018-02-26
- Evaluation Report 30-13693/H of 2018-03-12
- Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC
- ČSN EN 10255+A1:2007 Non-Alloy steel tubes suitable for welding and threading – Technical delivery conditions (i.e., the Czech version of EN 10255:2004+A1:2007)
- ČSN EN ISO 6892-1:2010 Metallic materials – Tensile testing – Part 1: Method of test at room temperature
- ČSN EN 10240:2001 Internal and/or external protective coatings for steel tubes - Specification for hot dip galvanized coatings applied in automatic plants
- Methodology 0220 M 003
- Technical documentation (see Table 2)

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