TATA STEEL

Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code TSNT 460MH [Grade S460MH / 1.8849]

Harmonised standard EN 10219-1:2006 - Cold formed welded structural

hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions (issued on the

Essential

characteristic

Yield strenath

Tensile strength

Elongation

Impact strength

(longitudinal)

Weldability

(CEV)

Durability

Tolerances on

dimensions and

shape

Performance

Values

min (MPa)

460

Values (MPa)

Values

min (%)

long.

(15 where Table B.5.

Note a applies)

Impact Value

min. average (J)

at Test Temp (°C)

40J at - 20°C

Values

max (%)

0.46

Composition (cast)

(max. unless otherwise

shown)

0.16

0.60

1.70

0.035

0.030

0.050

0.050

0.30

0.20

In accordance with

EN 10219-2:2006

GF deoxidation (a)

0.025

0.020 min.

0.12

С

Si

Mn

S

Nb

V

Τi

Ni

Мо

Durability is also dependent on any method of protection subsequently applied and the

vpe and thickness of the coating

Notes: (a) GF - Fully killed fine grain steel containing nitrogen binding elements

min

530

max

720

Nominal

thickness

(mm)

≤ 16

Round, square

and rectangular

hollow sections

Grade

MH

Nom.

Thk

(mm

≤ 16

technical

specification

EN 10219-1:2006

Official Journal of the European Union on

01/02/2007)

Intended use To be used

To be used in metal structures or in composite metal and concrete structures. This product is supplied with a specific inspection document 3.1 (according to EN 10204) that includes the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is suitable for being used as constituent product of a steel structure according to EN 1090. Table 1 of EN 1090-2:2018 requires a 3.1 inspection document for

structural steel above S275.

Manufacturer TATA STEEL NEDERLAND TUBES BV

Registered in Netherlands No. 20022812

Registered office: Souvereinstraat 35, Oosterhout,

4903 RH. Netherlands

Website: www.tatasteeleurope.com

System of AVCP System of assessment and verification of constancy

of performance of the product System 2+ (FPC Certificate No: 2814/CPR/RQA2007001/A)

Notified body No. 0343

LRQA Nederland B.V. George Hintzenweg 77 3068 AX Rotterdam

Netherlands

DocuSigned by:

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Jacob Gerkema Managing Director Tata Steel Nederland Tubes B.V. Souvereinstraat 35, Oosterhout, 4903 RH Netherlands Date 01/04/2024





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TATA STEEL NEDERLAND TUBES BV Registered in Netherlands No. 20022812 Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands

24

TSNT 460MH [Grade S460MH / 1.8849]

EN 10219-1:2006

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Performance declared for the following essential characteristics:

Yield strength: 460 MPa Tensile strength: 530 – 720 MPa Elongation: 17% (15% where Table B.5.a applies) Impact strength: 40J at - 20°C

Weldability (CEV): 0.46%

Durability: See Declaration of Performance

Tolerances on dimensions and shape: In accordance with

EN 10219-2:2006

Dangerous Substances: No Performance Determined (NPD)

TATA STEEL

Declaration of Performance

(according to The Construction Products (Amendment etc.) (EU Exit) Regulations SI 2020-1359)

Unique ID code TSNT 460MH [Grade S460MH / 1.8849]

Designated standard EN 10219-1:2006 - Cold formed welded structural

hollow sections of non-alloy and fine grain steels -Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on

01/02/2007)

metal and concrete structures. This product is supplied with a specific inspection document 3.1 (according to EN 10204) that includes the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is suitable for being used as constituent product of a steel structure according to EN 1090. Table 1 of EN 1090-2:2018 requires a 3.1 inspection document for

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System of AVCP System of assessment and verification of constancy

of performance of the product System 2+ (FPC Certificate No: 0038/CPR/RQA20070001/A)

Approved body Approved body No. 0038

LRQA Verification Ltd.

1 Trinity Park, Bickenhill Lane

Solihull, West Midlands

Birmingham

B37 7ES United Kingdom

DocuSigned by:

Netherlands

Jacob Gerkema
Managing Director
Tata Steel Nederland Tubes B.V.
Souvereinstraat 35. Oosterhout, 4903 RH

Date 01/04/2024



Essential characteristic	Performance				Harmonised technical specification
Yield strength	ength Nominal thickness (mm)		Values min (MPa)		
	≤ 16		460		
Tensile strength	Nominal		Values		
	thickness (mm)		(MPa) min max		
	(IIIII) ≤ 16		530	720	
Elongation	Nominal		Valu		
	thickness		min (%)		
	(mm)		long.		
	≤ 16		17 (15 where Table B.5, Note a applies)		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)		
	МН	≤ 16	40J at - 20°C		
Weldability (CEV)	Nominal thickness (mm)		Values max (%)		EN 10219-1:2006
	≤ 16		0.46		
	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)		
	≤ 16		Ti 0.0 Ni 0.3 Mo 0.2 N 0.0 GF deoxidation	0 0 35 30 50 2 20 min. 50 0 0 25 on (a)	
	of protection subsequently applied and the				
Tolerances on	type and thickness of the coating Round, square				
dimensions and shape	and recta	angular	In accordance with EN 10219-2:2006		



0038

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Yield strength: 460 MPa

Tensile strength: 530 – 720 MPa Elongation: 17% (15% where Table B.5.a applies)

Impact strength: 40J at - 20°C
Weldability (CEV): 0.46%
Durability: See Declaration of Performance

Tolerances on dimensions and shape: In accordance with

EN 10219-2:2006

Dangerous Substances: No Performance Determined (NPD)