



Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code Forcon® TT 355MH [Grade S355MH / 1.8845]

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 Official Journal of the European Union on 01/02/2007)

Intended use 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.tatasteelnederland.com

System of AVCP System of assessment and verification of constancy of performance of the product
System 2+ (FPC Certificate No: 0343/CPR/RQA2007001/A)

Notified body Notified body No. 0343
LRQA Nederland B.V.
George Hintzenweg 77
3068 AX Rotterdam
Netherlands

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Jacob Gerkema

Managing Director

Tata Steel Nederland Tubes B.V.

Souvereinstraat 35, Oosterhout, 4903 RH

Netherlands

Date 04/09/2025

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification	
Yield strength	Nominal thickness (mm)	Values min (MPa)	EN 10219-1:2006	
	≤ 16	355		
Tensile strength	Nominal thickness (mm)	Values (MPa)	EN 10219-1:2006	
	≤ 16	min 450 max 610		
Elongation	Nominal thickness (mm)	Values min (%)	EN 10219-1:2006	
	≤ 16	long. 22 (20 where Table B.5, Note a applies)		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	EN 10219-1:2006	
	MH	≤ 16		
Weldability (CEV)	Nominal thickness (mm)	Impact Value min. average (J) at Test Temp (°C)	EN 10219-1:2006	
	≤ 16	40J at - 20°C		
Durability	Nominal thickness (mm)	Values max (%)	EN 10219-1:2006	
	≤ 16	0.39		
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	EN 10219-1:2006	
	≤ 16	C 0.14 Si 0.50 Mn 1.50 P 0.035 S 0.030 Nb 0.050 V 0.10 Al 0.020 min. Ti 0.050 Ni 0.30 Mo 0.20 N 0.020		
GF deoxidation (a)				
Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating				
Tolerances on dimensions and shape	Round, square and rectangular hollow sections	In accordance with EN 10219-2 2006		

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



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EN 10219-1:2006

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Performance declared for the following essential characteristics:

Yield strength: 355 MPa

Tensile strength: 450 – 610 MPa

Elongation: 22% (20% where Table B.5.a applies)

Impact strength: 40J at - 20°C

Weldability (CEV): 0.39%

Durability: See Declaration of Performance

Tolerances on dimensions and shape: In accordance with EN 10219-2 2006

Dangerous Substances: No Performance Determined (NPD)



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

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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/RQA2007001/A)

Approved body Approved body No. 0038
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		Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating	
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Notes: (a) GF – Fully killed fine grain steel containing nitrogen binding elements

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