




**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: <a href="http://www.tatasteelnederland.com">www.tatasteelnederland.com</a>
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

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)		
		min	max	
	≤ 16	450	610	
Elongation	Nominal thickness (mm)	Values min (%)		
		long.		
	≤ 16	22 (20 where Table B.5, Note a applies)		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)	
	MH	≤ 16	40J at - 20°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)	
	≤ 16		0.39	
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)		
		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				

 0343
TATA STEEL NEDERLAND TUBES BV Registered in Netherlands No. 20022812 Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands  25  Forcon® TT 355MH [Grade S355MH / 1.8845]
EN 10219-1:2006  <b>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.</b>  <b>Performance declared for the following essential characteristics:</b> <b>Yield strength:</b> 355 MPa <b>Tensile strength:</b> 450 – 610 MPa <b>Elongation:</b> 22% (20% where Table B.5.a applies) <b>Impact strength:</b> 40J at - 20°C <b>Weldability (CEV):</b> 0.39% <b>Durability:</b> See Declaration of Performance <b>Tolerances on dimensions and shape:</b> In accordance with EN 10219-2 2006  <b>Dangerous Substances:</b> No Performance Determined (NPD)

DocuSigned by:



BBAC84320D6F4EC...

**Jacob Gerkema**

Managing Director

Tata Steel Nederland Tubes B.V.

Souvereinstraat 35, Oosterhout, 4903 RH

Netherlands

Date 04/09/2025



**Declaration of Performance**

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

Unique ID code	Forcon® TT 355MH [Grade S355MH / 1.8845]
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)
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: <a href="http://www.tatasteelnederland.com">www.tatasteelnederland.com</a>
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 Solihiull, West Midlands Birmingham B37 7ES United Kingdom

DocuSigned by:

BBAC84320D6F4EC...

**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)	
			minmax	
	≤ 16		450610	
Elongation	Nominal thickness (mm)		Values min (%)	
			long.	
	≤ 16		22 (20 where Table B.5, Note a applies)	
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)	
	MH	≤ 16	40J at - 20°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)	
	≤ 16		0.39	
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)	
	≤ 16		C0.14	
			Si0.50	
			Mn1.50	
			P0.035	
			S0.030	
			Nb0.050	
			V0.10	
			Al0.020 min.	
			Ti0.050	
			Ni0.30	
	Mo0.20			
N0.020				
		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				

**UK  
CA**

0038

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

25

Forcon® TT 355MH [Grade S355MH / 1.8845]

EN 10219-1:2006

**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.**

**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)