

Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code	TSNT 420MLH [Grade S420MLH / 1.8848]
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.tatasteeInederland.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

Jacob Gerkema	
Manager Disasters	

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



Date 09/01/2025

Essential characteristic		Pe	rformance	Harmonised technical specification	
Yield strength Nominal (mm)		Values min (MPa)			
	≤ 1	6	420		
	Nominal		Values		
Tensile strength	thickness		(MPa)		
renaic accrigin	(mr		min	max	
	≤ 1		500	660	
	Nom		Values		
	thickr		min (%)		
Elongation	(mr	n)		ıg.	
Liongation		_	19		
	≤ 1	6	(17 where		
	-		Note a a		
		Nom.	Impact		
	Grade	Thk.	min. ave	rage (J)	
Impact strength	-	(mm)	at Test Temp (°C)		
(longitudinal)	MLH	≤ 16	27J at - 50°C		
	Nominal		Values		EN 10219-1:200
Weldability (CEV)	thickr (mr		max (%)		
	≤ 16		0.43]
	Nom		Composition (cast)		
	thickr		(max. unless otherwise		
	(mr	n)	sho		
				16	
			Si 0.5		
			Mn 1.		
				030	
Durability				025 050	
				12	
	≤ 1	6		020 min.	
				050	l
			Ni 0.3	Ni 0.30	
			Mo 0.20	20	
			N 0.020		
			GF deoxidation (a)		
			dependent on		
		of protection subsequently applied and the			
			s of the coati	ng	
Tolerances on		Round, square In accordance with			
dimensions and and rectangular			EN 10219-2:2006		
shape	hollow s	ections		2.2000	

CE 0343 TATA STEEL NEDERLAND TUBES BV Registered in Netherlands No. 20022812 Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands 25 TSNT 420MLH [Grade S420MLH / 1.8848] 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: 420 MPa Tensile strength: 500 – 660 MPa **Elongation:** 19% (17% where Table B.5.a applies) Impact strength: 27J at - 50°C Weldability (CEV): 0.43% **Durability:** See Declaration of Performance Tolerances on dimensions and shape: In accordance with EN 10219-2:2006

Dangerous Substances: No Performance Determined (NPD)





Declaration of Performance (according to The Construction Products (Amendment etc.) (EU

Exit) Regulations SI 2020-1359)				
Unique ID code	TSNT 420MLH [Grade S420MLH / 1.8848]			
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)			
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Manufacturer	TATA STEEL NEDERLAND TUBES BV Registered in Netherlands No. 20022812 Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands Website: <u>www.tatasteelnederland.com</u>			
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			

Essential characteristic		Pe	rformance	Harmonised technical specificatior		
Yield strength	Nominal thickness (mm)		Values min (MPa)			
		≤ 16		20		
	Nominal thickness		Values (MPa)			
Tensile strength		(mm)		max		
	≤ 1	6	500	660		
		Nominal		lues		
	thickr		min (%)			
Elongation	(mr	n)		ng. 19		
	≤ 1	6		Table B.5,		
			Note a	applies)		
		Nom.		t Value		
1	Grade	Thk.		erage (J)		
Impact strength (longitudinal)		(mm)	at Test Temp (°C)		EN 10219-1:200	
(iongitualitat)	MLH	≤ 16	27J at - 50°C			
Weldability (CEV)	thickr	Nominal thickness (mm)		lues < (%)		
	≤ 16		0	.43		
		Nominal		tion (cast)		
		thickness		ss otherwise		
Durability	(mr	n)	C 0 Si 0	own) .16 .50 .70		
	≤ 1	≤ 16		.030 .025 .050 .12 .020 min. .050 .30		
				Mo 0.20 N 0.020		
				ition <i>(a)</i>		
	of protect	Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating				
Tolerances on dimensions and	Round,	Round, square and rectangular				
shape	hollow s		EN 1021	19-2:2006		

UK 0038 TATA STEEL NEDERLAND TUBES BV Registered in Netherlands No. 20022812 Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands 25 TSNT 420MLH [Grade S420MLH / 1.8848] 06 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: 420 MPa Tensile strength: 500 - 660 MPa Elongation: 19% (17% where Table B.5.a applies) Impact strength: 27J at - 50°C Weldability (CEV): 0.43% Durability: See Declaration of Performance Tolerances on dimensions and shape: In accordance with EN 10219-2:2006

Dangerous Substances: No Performance Determined (NPD)

Jacob Gerkema Managing Director

Souvereinstraat 35. Oosterhout, 4903 RH

Tata Steel Nederland Tubes B.V.

Netherlands

Date 09/01/2025

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