TATA STEEL

Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code	TST CDC235JRH [Grade S235JRH / 1.0039]
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 non-specific inspection document 2.2 (according to EN 10204) that does not include the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is only suitable for intended uses for which the non-specific inspection 2.2 is sufficient.
Manufacturer	TATA STEEL UK LIMITED Registered in England No. 2280000 Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK Website : www.tatasteeleurope.com
Authorised representative	Simon Edwards – Technical Director (acting) Tata Steel Wenckebachstraat 1 Velsen Noord 1951 JZ NL PO Box 10.000 Ijmuiden 1970 CA NL
System of AVCP	System of assessment and verification of constancy of performance of the product System 2+ (FPC Certificate No: 2814/CPR/LRQ0840080/B)
Notified body	Notified body No. 2814 LRQA Verification B.V. George Hintzenweg 77 3068 AX Rotterdam The Netherlands

Richard Sidebottom
Director Mills, DSO & Technical

Date 24/07/2023

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		235		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	≤ 16		min	max	
			360	510	
Elongation (longitudinal)	Nominal thickness (mm)		Values min (%)		
	≤ 16		24 (22 or 17 where Table A.3 Note b applies)		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (ºC)		
	JRH	<=16	27J at +20°C		
Weldability (CEV)	Nominal thickness (mm)		Values max (%)		
	≤ 16		0.35		
Durability	Nominal thickness (mm)		Composition (cast) max.		
	≤ 16		C: 0.17 Mn: 1.40 P: 0.040 S: 0.040 N 0.009		
			FF 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)* FF – Fully killed steel containing nitrogen binding elements

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TATA STEEL UK LIMITED
Registered in England No. 2280000
Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK

21

TST InflowCDC235JRH [Grade S235JRH / 1.0039]

EN 10219-1:2006

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Performance declared for the following essential characteristics:
Yield strength: 235 MPa
Tensile strength: 360 – 510 MPa
Elongation: 24% (22% or 17% where Table A.3.b applies)
Impact strength: 27J at +20°C
Weldability (CEV): 0.35%
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 2020 No 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/LRQ0840080/B)
Approved body	Approved body No. 0038 LRQA Verification Limited 1 Trinity Park, Bickenhill Birmingham, B37 7ES UK

Richard Sidebottom
Director Mills, DSO & Technical

Date 24/07/2023

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
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	≤ 16		min: 360 / max: 510	
Elongation (longitudinal)	Nominal thickness (mm)		Values min (%)	
	≤ 16		24 (22 or 17 where Table A.3 Note b applies)	
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (ºC)	
	JRH	<=16	27J at +20°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)	
	≤ 16		0.35	
Durability	Nominal thickness (mm)		Composition (cast) max.	
	≤ 16		C: 0.17 Mn: 1.40 P: 0.040 S: 0.040 N 0.009	
			FF 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)* FF – Fully killed steel containing nitrogen binding elements

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21

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EN 10219-1:2006

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Elongation: 24% (22% or 17% where Table A.3.b applies)
Impact strength: 27J at +20°C
Weldability (CEV): 0.35%
Durability: See Declaration of Performance
Tolerances on dimensions and shape: In accordance with EN 10219-2: 2006

Dangerous Substances: No Performance Determined (NPD)