

## 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.tatasteeluk.com](http://www.tatasteeluk.com)

System of AVCP System of assessment and verification of constancy of performance of the product  
System 2+ (FPC Certificate No: 0343/CPR/LRQ0840080/B)

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

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification
	Nominal thickness (mm)	Values Min (MPa)	
Yield strength	≤ 16	235	EN 10219-1:2006
	Tensile strength	≤ 16	
max 510			
Elongation (longitudinal)	≤ 16	24	
		(22 or 17 where Table A.3 Note b applies)	
Impact strength (longitudinal)	Grade	Impact Value min. average (J) at Test Temp (°C)	
	JRH	≤16 27J at +20°C	
Weldability (CEV)	Nominal thickness (mm)	Values max (%)	
	≤ 16	0.35	
Durability	≤ 16	Composition (cast) max.	
		C: 0.17 Mn: 1.40 P: 0.040 S: 0.040 N 0.009 FF deoxidation (a)	
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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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)



## Declaration of Performance

(according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 No 1359)

Unique ID code	TST CDC235JRH [Grade S235JRH / 1.0039]
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 UK LIMITED Registered in England No. 2280000 Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK Website : <a href="http://www.tatasteeluk.com">www.tatasteeluk.com</a>
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

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 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	Impact Value min. average (J) at Test Temp (°C)	
	JRH		
Weldability (CEV)	Nominal thickness (mm)	Values max (%)	
	≤ 16	0.35	
Durability	Nominal thickness (mm)	Composition (cast) max.	
		C: 0.17 Mn: 1.40 P: 0.040 S: 0.040 N 0.009	
	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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EN 10219-1:2006

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**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)

