

Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code TST Strongbox235JRH [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.tatasteelurope.com

Authorised representative Simon Edwards – Technical Director (acting)
Tata Steel
Wenckebackstraat 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: 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
		235		
Tensile strength	≤ 16	Values (MPa)		
		min	max	
		360	510	
Elongation (longitudinal)	≤ 16	Values min (%)		
		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 (°C)	
	JRH	≤16	27J at +20°C	
Weldability (CEV)	≤ 16	Nominal thickness (mm)	Values max (%)	
		0.35		
Durability	≤ 16	Nominal thickness (mm)	Composition (cast) max.	
		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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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 Strongbox235JRH [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 : www.tatasteeleurope.com
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
	Nominal thickness (mm)	Values (MPa)		
Yield strength	≤ 16	Min		EN 10219-1:2006
		235		
Tensile strength	≤ 16	Values (MPa)		
		min	max	
		360	510	
Elongation (longitudinal)	≤ 16	Values min (%)		
		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 (°C)	
	JRH	≤16	27J at +20°C	
Weldability (CEV)	≤ 16	Nominal thickness (mm)	Values max (%)	
			0.35	
Durability	≤ 16	Nominal thickness (mm)	Composition (cast) max.	
			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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Dangerous Substances: No Performance Determined (NPD)

