

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

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Tata Steel  
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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 No. 2814  
Lloyd's Register Verification B.V.  
K.P. van der Mandelelaan 41A  
Rotterdam  
Netherlands

John Collingham  
Director Operations, Tubes  
Souvereinstraat 35, Oosterhout, 4903 RH  
Netherlands

Date 12/07/2021



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
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	≤ 16	min 360 max 510	EN 10219-1:2006
	Nominal thickness (mm)	Values min (%) 24	
Elongation (longitudinal)	≤ 16	24	EN 10219-1:2006
	Grade	Impact Value min, average (J) at Test Temp (°C)	
Impact strength (longitudinal)	JRH	27J at +20°C	EN 10219-1:2006
	Nominal thickness (mm)	Values max (%)	
Weldability (CEV)	≤ 16	0.35	EN 10219-1:2006
	Nominal thickness (mm)	Composition (cast) max.	
Durability	≤ 16	C: 0.17 Mn: 1.40 P: 0.040 S: 0.040 N 0.009	EN 10219-1:2006
	FF deoxidation (a)		
Tolerances on dimensions and shape	Round, square and rectangular hollow sections	In accordance with EN 10219-2:2006	EN 10219-1:2006

Notes: (a) FF – Fully killed steel containing nitrogen binding elements

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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 2019 No 485)

Unique ID code TST Strongbox235JRH [Grade S235JRH / 1.00391]  
 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 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.

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 Website : [www.tatasteeleurope.com](http://www.tatasteeleurope.com)

System of AVCP System of assessment and verification of constancy of performance of the product  
 System 2+ (FPC Certificate No: 0038/CPPL/RQ0840080/B)  
 Approved body No. 0038  
 Lloyds Register Verification Ltd  
 71 Fenchurch Street, London EC3M 4BS

Date 20/09/2021

John Collingham  
 Director Operations, Tubes  
 Souvereinstraat 35, Oosterhout, 4903 RH  
 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
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	≤ 16	min 360 max 510	EN 10219-1:2006
	Nominal thickness (mm)	Values min (%)	
Elongation (longitudinal)	≤ 16	24 (22 or 17 where Table A.3 Note b applies)	EN 10219-1:2006
	Grade	Impact Value min. average (J) at Test Temp (°C)	
Impact strength (longitudinal)	JRH	27J at +20°C	EN 10219-1:2006
	Nominal thickness (mm)	Values max (%)	
Weldability (CEV)	≤ 16	0.35	EN 10219-1:2006
	Nominal thickness (mm)	Composition (cast) max.	
Durability	≤ 16	C: 0.17 Mn: 1.40 P: 0.040 S: 0.040 N: 0.009	EN 10219-1:2006
	Nominal thickness (mm)	FF deoxidation (a)	
Tolerances on dimensions and shape	Round, square, and rectangular hollow sections	In accordance with EN 10219-2:2006	EN 10219-1:2006
Notes: (a) FF – Fully killed steel containing nitrogen binding elements			



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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% (20% 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)