

## Declaration of Performance

(according to Regulation EU No 305/2011)

Ref. TST-Celsius355-J2H

**Hot finished structural hollow sections  
produced from non-alloy steel  
Grade S355J2H / 1.0576 according EN 10210-1**

Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details.

Tata Steel UK Limited  
Tubes Europe  
PO Box 101, Weldon Road  
Corby, NN17 5UA  
Tel: +44 (0)1536 402121  
Website : www.tatasteelurope.com

System of assessment and verification of constancy of performance of the product  
System 2+

Notified factory production control certification body No. 0038 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control

Notified Body  
Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS  
Tel :+44 (0)207 423 2428  
Email : ecdirectives@lr.org  
Website : www.lr.org



Remco Blaauw – Director Operations, Tubes Europe  
Tata Steel UK Limited

Date 27-6-2013

Essential characteristic	Performance		Harmonised technical specification	
Tolerances on dimensions and shape	Round, square, rectangular and elliptical hollow sections		In accordance with EN 10210-2: 2006	
Yield strength	Nominal thickness (mm)		Values min (MPa)	
	>	<=		
	-	16	355	
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	<=	min	max
	-	3	510	680
Elongation	Nominal thickness (mm)		Values min (%)	
	>	<=	long.	trans
	-	40	22	20
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value (J) at Test Temp (°C)	
	J2H	<=120	27J at -20°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	16	0.45	
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)	
	<=40		C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030	
			FF deoxidation*	

Notes: \*FF – Fully killed steel containing nitrogen binding elements



0038

Tata Steel  
Tubes Europe  
PO Box 101, Weldon Road Road  
Corby, NN17 5UA, UK

13

Ref. TST-Celsius355-J2H

EN 10210-1: 2006

**Hot finished structural hollow sections  
produced from non-alloy steel  
Grade S355J2H / 1.0576 according EN 10210-1**

Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details.

Information on regulated characteristics in accordance with EN10210 for:

Elongation :  
Tensile Strength :  
Yield Strength :  
Impact Strength :  
Weldability :  
Durability :

Dangerous Substances : No Performance Determined

## Declaration of Performance

(according to Regulation EU No 305/2011)

Ref. TST-Celsius355-NH

**Hot finished (normalised) structural hollow sections  
produced from fine grain steel  
Grade S355NH / 1.0539 according EN 10210-1**

Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details.

Tata Steel UK Limited  
Tubes Europe  
PO Box 101, Weldon Road  
Corby, NN17 5UA  
Tel: +44 (0)1536 402121  
Website : www.tatasteurope.com

System of assessment and verification of constancy of performance of the product  
System 2+

Notified factory production control certification body No. 0038 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control

Notified Body  
Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS  
Tel :+44 (0)207 423 2428  
Email : ecdirectives@lr.org  
Website : www.lr.org




Remco Blaauw – Director Operations, Tubes Europe  
Tata Steel UK Limited

Date 27-6-2013

Essential characteristic	Performance		Harmonised technical specification
Tolerances on dimensions and shape	Round, square, rectangular and elliptical hollow sections		In accordance with EN 10210-2: 2006
Yield strength	Nominal thickness (mm)	Values Min (MPa)	EN10210-1 2006
	>	<=	
	16	40	
	40	65	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	<=65	min   max	
		470   630	
Elongation	Nominal thickness (mm)	Values min (%)	
	<=65	22	
longitudinal		20	
	transverse		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value (J) at Test Temp (°C)
	NH	<=65	40J at - 20°C
Weldability (CEV)	Nominal thickness (mm)	Values max (%)	
	>	<=	
	16	65	
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	
		C	0.20
		Si	0.50
		Mn	0.90 – 1.65
		P	0.035
		S	0.030
		Nb	0.050
		V	0.12
		Al	0.020 min.
		Ti	0.03
Cr	0.30		
Ni	0.50		
Mo	0.10		
Cu	0.35		
N	0.020		
		GF deoxidation*	

Notes: \*GF – Fully killed steel with fine grain composition

 0038
Tata Steel Tubes Europe PO Box 101, Weldon Road Road Corby, NN17 5UA, UK  13  Ref. TST-Celsius355-NH
EN 10210-1: 2006  <b>Hot finished (normalised) structural hollow sections produced from fine grain steel Grade S355NH / 1.0539 according EN 10210-1</b>  Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details.  Information on regulated characteristics in accordance with EN10210 for:  Elongation : Tensile Strength : Yield Strength : Impact Strength : Weldability : Durability :  Dangerous Substances : No Performance Determined

## Declaration of Performance

(according to Regulation EU No 305/2011)

Ref. TST-Hybox355-J2H

**Hot finished structural hollow sections  
produced from non-alloy steel  
Grade S355J2H / 1.0576 according EN 10219-1**

Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details.

Tata Steel UK Limited  
Tubes Europe  
PO Box 101, Weldon Road  
Corby, NN17 5UA  
Tel: +44 (0)1536 402121  
Website : www.tatasteeleurope.com

System of assessment and verification of constancy of performance of the product  
System 2+

Notified factory production control certification body No. 0038 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control

Notified Body  
Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS  
Tel :+44 (0)207 423 2428  
Email : ecdirectives@lr.org  
Website : www.lr.org

Essential characteristic	Performance		Harmonised technical specification		
	Performance				
Tolerances on dimensions and shape	Round, square, rectangular and elliptical hollow sections		In accordance with EN 10219-2: 2006		
Yield strength	Nominal thickness (mm)		Values min (MPa)		
	>	<=			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	<=		min	max
	-	3		510	680
	3	16		470	630
Elongation	Nominal thickness (mm)		Values min (%)		
	>	<=		long.	
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value (J) at Test Temp (°C)		
	J2H	<=16		27J at - 20°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)		
	>	<=			
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)		
	<=16			C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030	
				FF deoxidation*	

Notes: \*FF – Fully killed steel containing nitrogen binding elements



0038

Tata Steel  
Tubes Europe  
PO Box 101, Weldon Road Road  
Corby, NN17 5UA, UK

13

Ref. TST-Hybox355-J2H

EN 10219-1: 2006


**Hot finished (normalised) structural hollow sections  
produced from non-alloy steel  
Grade S355J2H / 1.0576 according EN 10219-1**

Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details.

Information on regulated characteristics in accordance with EN10219 for:

Elongation :  
Tensile Strength :  
Yield Strength :  
Impact Strength :  
Weldability :  
Durability :

Dangerous Substances : No Performance Determined



Remco Blaauw – Director Operations, Tubes Europe  
Tata Steel UK Limited

Date 27-06-2013

## Declaration of Performance

(according to Regulation EU No 305/2011)

Ref. TST-Strongbox235-JRH

**Cold formed hollow sections  
produced from non-alloy steel  
Grade S235JRH / 1.0039 according EN 10219-1**

Cold formed steel hollow sections for general use  
supplied with 2.2 certification to EN 10204

Tata Steel UK Limited  
Tubes Europe  
PO Box 101, Weldon Road  
Corby, NN17 5UA  
Tel: +44 (0)1536 402121  
Website : www.tatasteeleurope.com

System of assessment and verification of constancy of  
performance of the product  
System 2+

Notified factory production control certification body No. 0038  
performed the initial inspection of the manufacturing plant and of  
factory production control and the continuous surveillance,  
assessment, and evaluation of factory production control and  
issued the certificate of conformity of the factory production  
control

Notified Body  
Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS  
Tel :+44 (0)207 423 2428  
Email : ecdirectives@lr.org  
Website : www.lr.org



Essential characteristic	Performance		Harmonised technical specification
Tolerances on dimensions and shape	Round, square, and rectangular hollow sections	In accordance with EN 10219-2: 2006	EN10219-1 2006
Yield strength	Nominal thickness (mm)	Values Min (MPa)	
	>   <=	235	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	<=16	min   max 360   510	
Elongation (longitudinal)	Nominal thickness (mm)	Values min (%)	
	<=16	22	
Impact strength (longitudinal)	Grade	Impact Value (J) at Test Temp (°C)	
	JRH   <=16		
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 FF deoxidation*	

Notes: \*FF – Fully killed steel containing nitrogen binding elements



0038

Tata Steel  
Tubes Europe  
PO Box 101, Weldon Road Road  
Corby, NN17 5UA, UK

13

Ref. TST-Strongbox235-JRH

EN 10219-1: 2006

**Cold formed hollow sections  
produced from non-alloy steel  
Grade S235JRH / 1.0039 according EN 10219-1**

Cold formed steel hollow sections for general use  
supplied with 2.2 certification to EN 10204

Information on regulated characteristics in accordance with  
EN10219 for:

Elongation :  
Tensile Strength :  
Yield Strength :  
Impact Strength :  
Weldability :  
Durability :

Dangerous Substances : No Performance Determined

## Declaration of Performance

(according to Regulation EU No 305/2011)

Ref. TST-Strongbox275-J0H

**Cold formed hollow sections  
produced from non-alloy steel  
Grade S275J0H / 1.0149 according EN 10219-1**

Cold formed steel hollow sections for general use  
supplied with 2.2 certification to EN 10204

Tata Steel UK Limited  
Tubes Europe  
PO Box 101, Weldon Road  
Corby, NN17 5UA  
Tel: +44 (0)1536 402121  
Website : www.tatasteleurope.com

System of assessment and verification of constancy of  
performance of the product  
System 2+

Notified factory production control certification body No. 0038  
performed the initial inspection of the manufacturing plant and of  
factory production control and the continuous surveillance,  
assessment, and evaluation of factory production control and  
issued the certificate of conformity of the factory production  
control

Notified Body  
Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS  
Tel :+44 (0)207 423 2428  
Email : ecdirectives@lr.org  
Website : www.lr.org



Essential characteristic	Performance		Harmonised technical specification	
Tolerances on dimensions and shape	Round, square, and rectangular hollow sections		In accordance with EN 10219-2: 2006	
Yield strength	Nominal thickness (mm)	Values Min (MPa)	EN10219-1 2006	
	>   <=	275		
Tensile strength	Nominal thickness (mm)	Values (MPa)		
	>=   <	min   max		
	-   3   16	430   580		
	3   16	410   560		
Elongation (longitudinal)	Nominal thickness (mm)	Values min (%)		
	<=40	18		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)		Impact Value (J) at Test Temp (°C)
	J0H	<=16		27J at 0°C
Weldability (CEV)	Nominal thickness (mm)	Values max (%)		
	<=16	0.40		
Durability	Nominal thickness (mm)	Composition (cast) max.		
	<=16	C: 0.20 Mn: 1.50 P: 0.035 S: 0.035 N 0.009 FF deoxidation*		

Notes: \*FF – Fully killed steel containing nitrogen binding elements



0038

Tata Steel  
Tubes Europe  
PO Box 101, Weldon Road Road  
Corby, NN17 5UA, UK

13

Ref. TST-Strongbox275-J0H

EN 10219-1: 2006

**Cold formed hollow sections  
produced from non-alloy steel  
Grade S235JRH / 1.0039 according EN 10219-1**

Cold formed steel hollow sections for general use  
supplied with 2.2 certification to EN 10204

Information on regulated characteristics in accordance with  
EN10219 for:

Elongation :  
Tensile Strength :  
Yield Strength :  
Impact Strength :  
Weldability :  
Durability :

Dangerous Substances : No Performance Determined