

# TATA STEEL

## 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

For use in 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 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: eodirectives@lr.org  
Website: www.lr.org



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


Date

22-8-2013

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	EN10210-1:2008	
Yield strength	Nominal thickness (mm)		Values Min (MPa)
	>		355
	≤		345
Tensile strength	Nominal thickness (mm)		Values (MPa)
	<=65		min 470 max 530
	>65		min 470 max 530
Elongation	Nominal thickness (mm)		Values min (%)
	<=65		22
Impact strength (longitudinal)	Grade		Impact Value (J) at Test Temp (°C)
	NH		40J at -20°C
Weldability (CEV)	Nominal thickness (mm)		Values max (%)
	>		0.45
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	
	<=65	C 0.20 Si 0.50 Mn 0.50 - 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	

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

Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating.




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EN 10210-1: 2008

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Information on regulated characteristics in accordance with EN10210 for:

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

**Dangerous Substances : No Performance Determined**