

## 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 : ecdirectives@lr.org  
Website : www.lr.org



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
	16	40	345
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	0.43
	16	65	0.45
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*
Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating.			

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

**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.

Information on regulated characteristics in accordance with  
EN10210 for:

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

Dangerous Substances : No Performance Determined