

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 to 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.

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System of assessment and verification of constancy of
performance of the product
System 2+
FPC Certificate No: 0038/CPR/LRQ0840080/B


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
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Website : www.lr.org



Essential characteristic	Performance		Harmonised technical specification	
	Nominal thickness (mm)	Values Min (MPa)		
Yield strength	>	<=	EN10210-1 2006	
	-	16		355
	16	40		345
	40	65		335
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	<=65		min max	
			470 630	
Elongation	Nominal thickness (mm)		Values min (%)	
	<=65		22	
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)	
	NH	<=65	40J at -20°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	16	0.43	
Durability	16	65	0.45	
	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)	
	<=65		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.				
Tolerances on dimensions and shape	Round, square, rectangular and elliptical hollow sections	In accordance with EN 10210-2: 2006		

Notes: *GF – Fully killed fine grain steel containing nitrogen binding elements

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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 to 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