

Declaration of Performance

(according to Regulation EU No 305/2011)

Ref. TST Celsius355-NLH

Hot finished (full body normalised) structural hollow sections manufactured from fine grain steel Grade S355NLH / 1.0549 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.

Produced at relevant manufacturing sites of
Tata Steel – Tubes, Europe

Head Office
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+

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
Tel :+44 (0)207 423 2428
Email : ecdirectives@lr.org
Website : www.lr.org



Essential characteristic	Performance		Harmonised technical specification	
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	
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)	
	NLH	<=65	27J at - 50°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	16	0.43	
Durability	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

 0038
Tata Steel – Tubes, Europe Head Office PO Box 101, Weldon Road Road Corby, NN17 5UA, UK 13 Ref. TST Celsius355-NLH
EN 10210-1: 2006 Hot finished (normalised) structural hollow sections produced from fine grain steel Grade S355NLH / 1.0549 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