

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



pp Remco Blaauw – Director Operations, Tubes Europe  
Tata Steel

Date November 2015

Essential characteristic	Performance		Harmonised technical specification	
	Nominal thickness (mm)	Values Min (MPa)		
Yield strength	>	<=		
	-	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	
	16	65	0.45	
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		

EN10210-1 2006



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EN 10210-1: 2006

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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

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