## TATA STEEL



## **Declaration of Performance**

(according to Regulation EU No 305/2011)

Ref. TST Hybox420-MH

Cold formed structural hollow sections produced from fine grain steel
Grade S420MH / 1.8847 according to EN 10219-1

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 - 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+

NL - FPC Certificate No: 0038/CPR/RQA20070001/A UK - 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 evaluation of factory production control 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		420		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	<=	min	max	
Elongation	- 16  Nominal thickness (mm)		500 660 Values min (%)		
	>	<=	long.		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	19 Impact Value min. average (J) at Test Temp (°C)		
	МН	<=16	40J at - 20°C		
Weldability (CEV)	Nominal thickness (mm)		Values max (%)		EN10219-1 2006
	>	<= 16	0.43		
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)		
	<=16		C 0.16 Si 0.50 Mn 1.70 P 0.035 S 0.030 Nb 0.050 V 0.12 AI 0.020 min. Ti 0.050 Ni 0.30 Mo 0.20 N 0.020		
			GF deoxidation*		
	of protect type and	Durability is also dependent on any metho of protection subsequently applied and the type and thickness of the coating			
Tolerances on dimensions and shape	Round, and rect hollow s	angular	In accordance with EN 10219-2: 2006		



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EN 10219-1: 2006

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Information on regulated characteristics in accordance with EN10219 for:

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

Dangerous Substances: No Performance Determined