



Celsius[®] 355 NH test certification

Visible quality assurance



0	
Corby or Hartlepool	
	TATA PO Box 101
	Corby Northants UK NN17 5UA
	Customer A06
Your details	A.N.OTHER ANYTOWN
	ANYWHERE
	AB12 3CD
Notified body Approval Number 0038 –	G.D
Lloyds Register Verification Ltd	
Additional information required for CPR CE Marking	EC CERTIFICATE (FPC) NUMBER 0038/CPR/20070
	DURABILITY: NO PERFORMANCE DETERMINED - SU
	L=Longitudinal T=Transverse B=Body W=Weld HAZ=Heat Affecte
	B08 B09-B12 B07
Product details	No. of Product Dimensions Cast/Heat
	(mm)
	120.00 x 120.00 x 8.00 7V88865
Test results – Yield Stress, Elongation, Tensile Strength, Impact Tests	x x x x
	x x x
	x x x
	* * * * * * * * * * * * * * * * * * * *
	Cast No.
Celsius [®] 355 NH is fully killed fine grain steel.	7V88865 LADLE 0.14 0.21 1.45 0.010 0.005 0.026 0.0
J2 only requires 5 chemical elements:	ANALYSIS
C, Si, Mn, P and S so fully killed steel (Ff) is not	(ENTIO210 C255NTH 0 20 0 50 0 00 0 025 0 020 0 20 0 1
immediately obvious.	LIMITS) 0.20 0.30 0.30 0.00 0.00 0.00 0.00 0.00
Multilingual interpretations of code numbers are printed	Code Numbers in accordance with EN 10168 (see overleaf).
in full on the reverse side of the inspection certificate	Alterations to this document or its use for other products shall be regarded stand as falsification of documents and be subject to criminal jurisdiction.
	Z01 The products covered by this inspection document are of

E Mark which indicates materia	l is fully compliant with Regulations (CPR)	Celsi Othe	us [®] 355 is supplied w r materials may have	vith guaranteed 3.1 cert a representative 2.2 te	ification. st report.	
<u></u>						
0)1536402121 0)1536404111	INSPECT EN 1	ION CER 0204 Typ	TIFICATI e 3.1	E A02 Date Cert	No. 120/1302/	Z02 /1026C ^{A03} 3
Tata S	iteel Ref.No. Sales	GXA 123456		Works 30 763	4	A08
E Custor	mer Order No.	P/O: P0123456	578	OF 01/0CT/	12	A07
C:	ELSIUS HOT FINI 2006 GRADE S3	SHED WELDED ST 55NH. (2T MAX C	EEL RECTANGU	LAR HOLLOW SEC E)	FION TO EN 10	210
A T TO FINAL COATI	NG				NORMALIS	ED ROLLED
S=Stripped Section	F=Full Section K	V=Charpy - V H	IV= Hardness Vicker	s(10Kg Load) HR	=Hardness Rockwell B	
C01 C11 C1 C02 Yield Tensile	st C13 C0 Elong C1	Impact/Hardness Te 01 C40 C41 C03 02 C30 C30 C30	25ts Steel 1 C42 C43 C31 C32 BAS	Making Process 3IC OXYGEN ST	EEL	C70
CIO Stress Re (N/mm ²) Strength	A 5.65 (%)	Test Width Temp	Values Ave	Tosts		C50-C69 D02-D99
B 366.0 498.	0 33 B L	KV 5.0 -20	86 90 WEL 97 TES 88 FLZ	JESS JD SEAM 100% I STED TO EN 103 ATTENING TEST	EDDY CURRENT 246-3 FOR SEAM WI	
C X X X X END O	F ITEM x x	* * * * * * *	X X X X X X X X X X X X X X X X X X X	*****	< x x x x x x	xx×××
x x x x x END O	F CERT X X	* * * * * * *		* * * * * * * *	* * * * * *	XXXX
Ni Al B	Cu N	Nb Sn	Ti V	CEV		
0.021 0.045 0.0001	0.014 0.005	0.033 0.002 0	.002 0.003	0.39		
0.50 0.020	0.35 0.020	0.050 0	.03 0.12	0.43		
with European Regulation. The C IN IO2IOJ EN IO2I9, EN IO255) ha ks Quality System complies with kd users - only tubes in accordanc d by Tata Steel UK Limited and c	E mark shown in Corby rmonized with the Constr the Pressure Equipment D e with EN 10217 have a pr comply with the requirement	Works Inspection Docume uction Products Regulation irective (PED) 97/23/EC / esumption of conformity ints of the Product Descrip	Int is only applicable to n (CPR) 89/106/EEC. Annex I Para 4.3. with the PED. ption.	o product This doct computer	S.M.Jeffrey Quality Manager Iment has been prepare system and is valid wi	ZO2 AO5 ed by a thout signature.

Weld seam test which is mandatory for certification (not required for 2.2 test report)

Non-mandatory tests which we guarantee for our quality control and your added assurance

Lower CEV than non alloy (J2)



A CERTIFIED PRODUCT THAT YOU CAN RELY ON

When you specify **Celsius® 355** hot finished hollow sections, you need to be sure that the correct material has been supplied. Use of substitutes can result in an inferior structural performance – with serious consequences.

To give you confidence, we've made sure that **Celsius® 355** is sold only with full certification. The Inspection Certificate Type 3.1 supplied with this product is your guarantee that **Celsius® 355** is manufactured exclusively from fine grain, normalised steel to EN10210:S355NH standard. For building structures, this means complete assurance that your materials comply with the material requirements of all relevant British and European standards. The Inspection Certificate Type 3.1 supplied with **Celsius® 355** gives you all the information that you need for peace of mind. It clearly shows:

- a description of the product including confirmation of a 2T corner profile
- the mandatory tests undertaken for EN10210:S355NH certification
- the additional, non-mandatory tests undertaken by Tata Steel for extra quality assurance
- full chemical analysis (14 chemical elements) confirming that
 Celsius® 355 is produced using fully-killed, fine grain steel – and providing you with full visibility and traceability
- the CE mark to prove that the material is fully compliant with the European Construction Product Regulation
- the Tata Steel name and symbol providing assurance that your product is from a proven, reliable and fully traceable source

Celsius® 355 Hot Finished Hollow Sections

- Formed at normalising temperature
- Higher sectional properties
- Fine grain structure
- Uniform mechanical properties
- Weldable in corner regions
- Higher compression capacity
- Negligible residual stress
- Tighter corner profile
- Suitability for galvanising
- Fire resistance capability
- Proven dynamic performance

- Guarantees full compliance with EN10210: S355NH
- Guarantees Specific Inspection so material matches test certificate
- Guarantees a minimum charpy impact, average value of 40J @ -20°C
- Guarantees full compliance with CE marking under the Construction Product Regulation (CPR)
- Tighter corner profile of 2T better than EN10210 which is to a maximum of 3T
- Meets and exceeds the J2H specification

www.tatasteel.com

While care has been taken to ensure that the information contained in this brochure is accurate, neither Tata Steel Europe Limited, nor its subsidiaries, accept responsibility or liability for errors or for information which is found to be misleading.

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Tata Steel

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