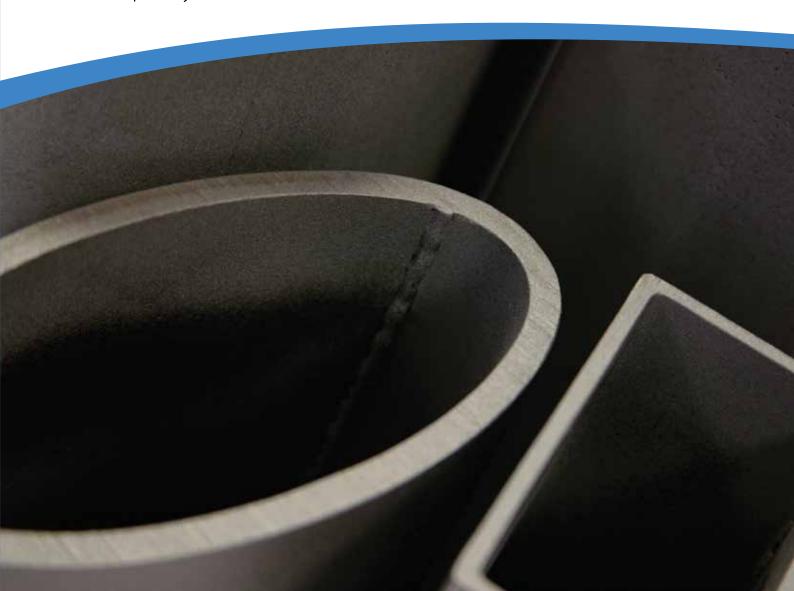


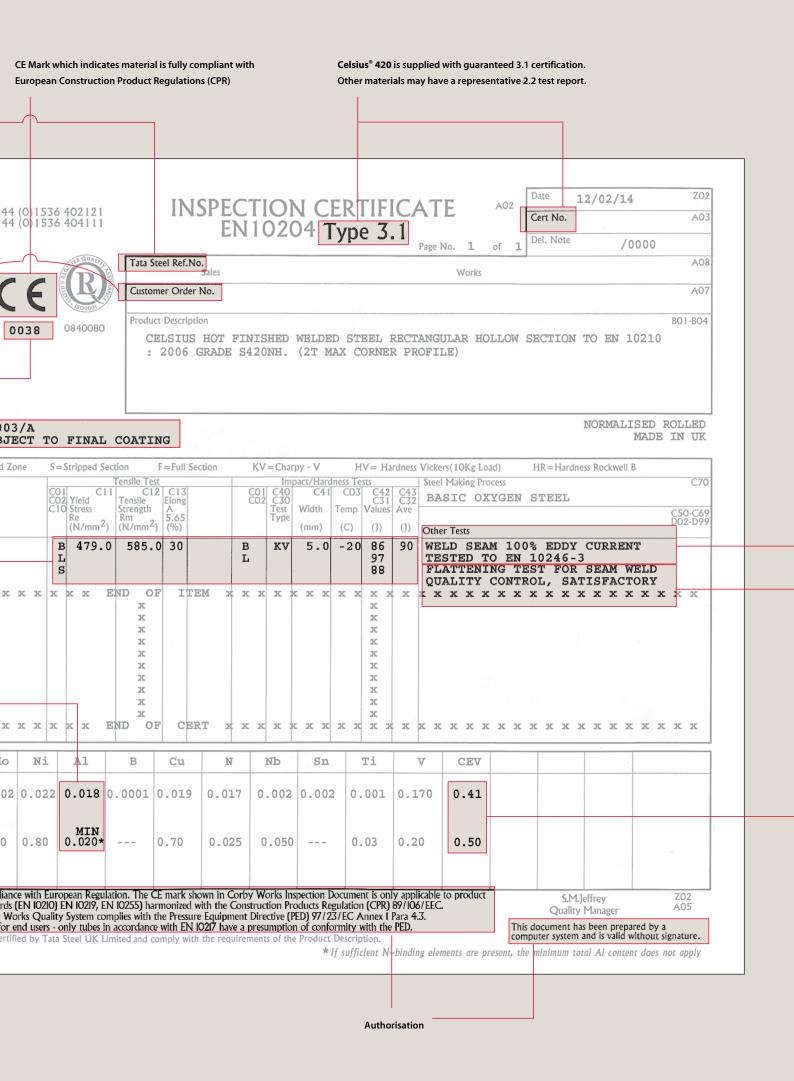


## **Celsius® 420 NH test certification**

Visible quality assurance



Our details	
Corby or Hartlepool	
	Tata Steel UK Limited A01  Corby Works PO Box 101 Corby Northants UK NN17 5UA  Telephone: Fax:
Your details	A.N.OTHER ANYTOWN ANYWHERE AB12 3CD
Notified body Approval Number 0038 –	Ti, I
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 Affects BO8 Item Number No. of Product Dimensions Cast/Heat
Product details	Pieces (mm) No.
Test results – Yield Stress, Elongation, Tensile Strength, Impact Tests	60.00 x 40.00 x 6.00 7V88865 x 12.200M = 146.40M  x x x x x x x x x x x x x x x x x x x
AI - applied to ensure steel is fully killed. However Annex B note C allows a reduction in minimum AI content where additional nitrogen binding	x x x x x x x x x x x x x x x x x x x
elements are used, e.g. V, Ni and Ti	* * * * * * * * * * * * * * * * * * * *
	C71-C99 Analysis % C Si Mn P S Cr I
	7V88865 LADLE 0.14 0.19 1.39 0.011 0.007 0.027 0.027 ANALYSIS
	(EN10210 S420NH 0.22 0.60 1.00 0.035 0.030 0.30 0.30 LIMITS)
Multilingual interpretations of code numbers are printed in full on the reverse side of the inspection certificate	Code Numbers in accordance with EN 10168 (see overleaf).  Alterations to this document or its use for other products shall be regarded as falsification of documents and be subject to criminal jurisdiction.  Z01 The products covered by this inspection document are of the content of the conte



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

Celsius® 420 has guaranteed max 0.45 compared to the standard EN 10210 (0.5)

# A certified product that you can rely on

When you specify **Celsius® 420** 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® 420** is sold only with full certification. The Inspection Certificate Type 3.1 supplied with this product is your guarantee that **Celsius® 420** is manufactured exclusively from fine grain, normalised steel to EN10210:S420NH 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® 420** 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:S420NH certification
- the additional, non-mandatory tests undertaken by Tata Steel for extra quality assurance
- full chemical analysis (14 chemical elements) confirming that
   Celsius® 420 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® 420 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
- Guaranteed CEV max 0.45

- Guarantees full compliance with EN10210: S420NH
- 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.tatasteelconstruction.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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