

## Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code TST CDC235JRH [Grade S235JRH / 1.0039]

Harmonised standard EN 10219-1:2006 - Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on 01/02/2007)

Intended use To be used in metal structures or in composite metal and concrete structures. This product is supplied with a non-specific inspection document 2.2 (according to EN 10204) that does not include the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is only suitable for intended uses for which the non-specific inspection 2.2 is sufficient.

Manufacturer TATA STEEL UK LIMITED  
Registered in England No. 2280000  
Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK  
Website : [www.tatasteelurope.com](http://www.tatasteelurope.com)

Authorised representative Simon Edwards – Technical Director (acting)  
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Ijmuiden  
1970 CA NL

System of AVCP System of assessment and verification of constancy of performance of the product  
System 2+ (FPC Certificate No: 0343/CPR/LRQ0840080/B)

Notified body Notified body No. 0343  
LRQA Nederland B.V.  
George Hintzenweg 77  
3068 AX Rotterdam  
The Netherlands

Table 1 – Essential characteristics and declared performances

| Essential characteristic  | Performance                                    |  |   | Harmonised technical specification |
|---|--|--|---|------------------------------------|
|   | Nominal thickness (mm)                         | Values Min (MPa)                                       |   |                                    |
| Yield strength  | ≤ 16   | 235  |   | EN 10219-1:2006                    |
|   | Tensile strength                               | ≤ 16   | min   |                                    |
| 360   |  |  | 510   |                                    |
| Elongation (longitudinal)   | ≤ 16   | 24   |   |                                    |
|   |  | (22 or 17 where Table A.3 Note b applies)              |   |                                    |
| Impact strength (longitudinal)  | Grade  | Nom. Thk. (mm)   | Impact Value min. average (J) at Test Temp (°C) |                                    |
|   | JRH  | ≤16  | 27J at +20°C                                    |                                    |
| Weldability (CEV)   | ≤ 16   | Nominal thickness (mm)                                 | Values max (%)                                  |                                    |
|   |  | 0.35   |   |                                    |
| Durability  | ≤ 16   | Nominal thickness (mm)                                 | Composition (cast) max.                         |                                    |
|   |  | C: 0.17<br>Mn: 1.40<br>P: 0.040<br>S: 0.040<br>N 0.009 |   |                                    |
|   | FF deoxidation (a)                             |  |   |                                    |
| 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, and rectangular hollow sections | In accordance with EN 10219-2: 2006                    |   |                                    |

Notes: (a) FF – Fully killed steel containing nitrogen binding elements



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TST InflowCDC235JRH [Grade S235JRH / 1.0039]

EN 10219-1:2006

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**Performance declared for the following essential characteristics:**

**Yield strength:** 235 MPa

**Tensile strength:** 360 – 510 MPa

**Elongation:** 24% (22% or 17% where Table A.3.b applies)

**Impact strength:** 27J at +20°C

**Weldability (CEV):** 0.35%

**Durability:** See Declaration of Performance

**Tolerances on dimensions and shape:** In accordance with EN 10219-2: 2006

**Dangerous Substances:** No Performance Determined (NPD)



## Declaration of Performance

(according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 No 1359)

|                     |  |
|---------------------|--|
| Unique ID code      | TST CDC235JRH [Grade S235JRH / 1.0039]   |
| Designated standard | EN 10219-1:2006 - Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on 01/02/2007)  |
| Intended use        | To be used in metal structures or in composite metal and concrete structures. This product is supplied with a non-specific inspection document 2.2 (according to EN 10204) that does not include the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is only suitable for intended uses for which the non-specific inspection 2.2 is sufficient. |
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| System of AVCP      | System of assessment and verification of constancy of performance of the product<br>System 2+ (FPC Certificate No: 0038/CPR/LRQ0840080/B)  |
| Approved body       | Approved body No. 0038<br>LRQA Verification Limited<br>1 Trinity Park, Bickenhill<br>Birmingham, B37 7ES<br>UK   |

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| Essential characteristic  | Performance                                    |  | Harmonised technical specification |
|---|--|--|------------------------------------|
|   | Nominal thickness (mm)                         | Values Min (MPa)                                       |                                    |
| Yield strength  | ≤ 16   | 235  | EN 10219-1:2006                    |
|   | ≤ 16   | min 360 max 510  |                                    |
| Tensile strength  | Nominal thickness (mm)                         | Values (MPa)   |                                    |
|   | ≤ 16   | min 360 max 510  |                                    |
| Elongation (longitudinal)   | Nominal thickness (mm)                         | Values min (%)   |                                    |
|   | ≤ 16   | 24 (22 or 17 where Table A.3 Note b applies)           |                                    |
| Impact strength (longitudinal)  | Grade  | Impact Value min. average (J) at Test Temp (°C)        |                                    |
|   | JRH  | ≤16 27J at +20°C                                       |                                    |
| Weldability (CEV)   | Nominal thickness (mm)                         | Values max (%)   |                                    |
|   | ≤ 16   | 0.35   |                                    |
| Durability  | Nominal thickness (mm)                         | Composition (cast) max.                                |                                    |
|   | ≤ 16   | C: 0.17<br>Mn: 1.40<br>P: 0.040<br>S: 0.040<br>N 0.009 |                                    |
|   | FF deoxidation (a)                             |  |                                    |
| 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, and rectangular hollow sections | In accordance with EN 10219-2: 2006                    |                                    |

Notes: (a) FF – Fully killed steel containing nitrogen binding elements

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