

## Declaration of performance CE/UKCA

DOP certification number: TKMN001

**1. Product name and identification code:**

Hot-rolled products of structural steel, EN 10025-1:2004 – EN10025-2:2019

Types S235/S275/S355

Values JR/JO/J2

**2. Name and production address:**

ThyssenKrupp Materials Nederland B.V.

Taylorweg 7

5466 AE Veghel (NL)

**3. Application**

to be used in metal structures or in composite metal and concrete structures.

**4. System for assessing and verifying the consistent performance of the construction product:**

System 2+

**5. Notify and Approved body:**

CE: KIWA, NL notify body NR.0620

Assessment and evaluation of factory production control for system 2+

UKCA: CARES, UK approved body No. 1244.

Assessment and evaluation of factory production control for system 2+, by KIWA.

**6. Declared performances**

The approved body No.1244 has certified the factory production control according to the 2+system. It continuously monitors, evaluates and confirm the factory production control and has issued the certificate of the factory production control,

The product performance as defined in point 1 corresponds to the performance as declared in point 6. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 (CE) and in accordance with regulation (EU) No 302/2011, (retained EU law EUR 305/2011) as amended by the Construction Products (amendment etc.)(EU Exit) Regulations 2019 and the Construction Products (amendment etc.)(EU Exit) Regulations 2020, under the sole responsibility of the manufacturer mentioned above. In accordance with the Construction Products Regulation.

The Declaration of Performance TKMN001 for EN10025 is located on: <https://www.thyssenkrupp-materials.nl/nl/kwaliteit-en-milieu/kwaliteit-en-veiligheid/>

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| Main features                         | Performance: in accordance with EN10025-2:2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Designated standards technical specification |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Dimension- and shape tolerances       | <table><tr><td>EN 10056-1</td><td>Equilateral and obverse angles</td></tr><tr><td>EN 10058</td><td>Flat bars</td></tr><tr><td>EN 10060</td><td>Round bars</td></tr><tr><td>EN 10279</td><td>U-profiles</td></tr><tr><td>EN 10034</td><td>I- and H-sections</td></tr><tr><td>EN 10024</td><td>INP-profiles</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | EN 10056-1                                   | Equilateral and obverse angles | EN 10058                                         | Flat bars | EN 10060                  | Round bars   | EN 10279     | U-profiles   | EN 10034     | I- and H-sections | EN 10024 | INP-profiles | EN 10025-2:2019 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| EN 10056-1                            | Equilateral and obverse angles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| EN 10058                              | Flat bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| EN 10060                              | Round bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| EN 10279                              | U-profiles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| EN 10034                              | I- and H-sections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| EN 10024                              | INP-profiles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Breaking strain(%)                    | <table><tr><td>Type and Value</td><td>Normal thickness (mm)</td></tr><tr><td></td><td>≥ 3 ≤ 40</td></tr><tr><td>S235JR/JO/J2</td><td>26</td></tr><tr><td>S275JR/JO/J2</td><td>23</td></tr><tr><td>S355JR/JO/J2</td><td>22</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Type and Value                               | Normal thickness (mm)          |                                                  | ≥ 3 ≤ 40  | S235JR/JO/J2              | 26           | S275JR/JO/J2 | 23           | S355JR/JO/J2 | 22                |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Type and Value                        | Normal thickness (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
|                                       | ≥ 3 ≤ 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S235JR/JO/J2                          | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S275JR/JO/J2                          | 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355JR/JO/J2                          | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Tensile strength (MPa)                | <table><tr><td>Type and Value</td><td>Normal thickness (mm)</td></tr><tr><td></td><td>≥ 3 ≤ 100</td></tr><tr><td>S235JR/JO/J2</td><td>360 to 510</td></tr><tr><td>S275JR/JO/J2</td><td>410 to 560</td></tr><tr><td>S355JR/JO/J2</td><td>470 to 630</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Type and Value                               | Normal thickness (mm)          |                                                  | ≥ 3 ≤ 100 | S235JR/JO/J2              | 360 to 510   | S275JR/JO/J2 | 410 to 560   | S355JR/JO/J2 | 470 to 630        |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Type and Value                        | Normal thickness (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
|                                       | ≥ 3 ≤ 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S235JR/JO/J2                          | 360 to 510                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S275JR/JO/J2                          | 410 to 560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355JR/JO/J2                          | 470 to 630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Flow limit (MPa)                      | <table><tr><td>Type and Value</td><td colspan="2">Normal thickness (mm)</td></tr><tr><td></td><td>≥16</td><td>&gt; 16 ≤ 40</td></tr><tr><td>S235JR/JO/J2</td><td>235</td><td>225</td></tr><tr><td>S275JR/JO/J2</td><td>275</td><td>265</td></tr><tr><td>S355JR/JO/J2</td><td>355</td><td>345</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Type and Value                               | Normal thickness (mm)          |                                                  |           | ≥16                       | > 16 ≤ 40    | S235JR/JO/J2 | 235          | 225          | S275JR/JO/J2      | 275      | 265          | S355JR/JO/J2    | 355  | 345  |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Type and Value                        | Normal thickness (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
|                                       | ≥16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | > 16 ≤ 40 |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S235JR/JO/J2                          | 235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 225       |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S275JR/JO/J2                          | 275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 265       |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355JR/JO/J2                          | 355                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 345       |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Impact resistance (J)                 | <table><tr><td rowspan="2">Type and Value</td><td colspan="3">Normal thickness ≤150 mm and by Test temperature</td></tr><tr><td>-20°C</td><td>0°C</td><td>20°C</td></tr><tr><td>S235JR/JO/J2</td><td>27</td><td>27</td><td>27</td></tr><tr><td>S275JR/JO/J2</td><td>27</td><td>27</td><td>27</td></tr><tr><td>S355JR/JO/J2</td><td>27</td><td>27</td><td>27</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                              | Type and Value                 | Normal thickness ≤150 mm and by Test temperature |           |                           | -20°C        | 0°C          | 20°C         | S235JR/JO/J2 | 27                | 27       | 27           | S275JR/JO/J2    | 27   | 27   | 27 | S355JR/JO/J2 | 27    | 27    | 27    |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Type and Value                        | Normal thickness ≤150 mm and by Test temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
|                                       | -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0°C       | 20°C                                         |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S235JR/JO/J2                          | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27        | 27                                           |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S275JR/JO/J2                          | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27        | 27                                           |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355JR/JO/J2                          | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27        | 27                                           |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Weld ability (Chemical composition)   | <table><tr><td>Type and Value</td><td>CEV % Max.</td></tr><tr><td></td><td>Normal thickness (mm) ≤30</td></tr><tr><td>S235JR/JO/J2</td><td>0.35</td></tr><tr><td>S275JR/JO/J2</td><td>0.40</td></tr><tr><td>S355JR/JO/J2</td><td>0.45</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                              | Type and Value                 | CEV % Max.                                       |           | Normal thickness (mm) ≤30 | S235JR/JO/J2 | 0.35         | S275JR/JO/J2 | 0.40         | S355JR/JO/J2      | 0.45     |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Type and Value                        | CEV % Max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
|                                       | Normal thickness (mm) ≤30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S235JR/JO/J2                          | 0.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S275JR/JO/J2                          | 0.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355JR/JO/J2                          | 0.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| Sustainability (Chemical composition) | <table><tr><td rowspan="2">Type and Value</td><td colspan="2">C% max.</td><td rowspan="2">Si % max</td><td rowspan="2">Mn % max</td><td rowspan="2">P % max</td><td rowspan="2">S % max</td><td rowspan="2">N % max</td><td rowspan="2">Cu % max</td></tr><tr><td>≥16</td><td>&gt; 16≤ 40</td></tr><tr><td>S235JR</td><td>0.19</td><td>0.19</td><td>--</td><td>1.50</td><td>0.045</td><td>0.045</td><td>0.014</td><td>0.60</td></tr><tr><td>S235JO</td><td>0.19</td><td>0.19</td><td>--</td><td>1.50</td><td>0.040</td><td>0.040</td><td>0.014</td><td>0.60</td></tr><tr><td>S275JR</td><td>0.24</td><td>0.24</td><td>--</td><td>1.60</td><td>0.045</td><td>0.045</td><td>0.014</td><td>0.60</td></tr><tr><td>S275JO</td><td>0.21</td><td>0.21</td><td>--</td><td>1.60</td><td>0.040</td><td>0.040</td><td>0.014</td><td>0.60</td></tr><tr><td>S355JR</td><td>0.27</td><td>0.27</td><td>--</td><td>1.70</td><td>0.045</td><td>0.045</td><td>0.014</td><td>0.60</td></tr><tr><td>S355JO</td><td>0.23</td><td>0.23</td><td>0.60</td><td>1.70</td><td>0.040</td><td>0.040</td><td>0.014</td><td>0.60</td></tr><tr><td>S355J2</td><td>0.23</td><td>0.23</td><td>0.60</td><td>1.70</td><td>0.035</td><td>0.035</td><td>--</td><td>0.60</td></tr></table> |           |                                              | Type and Value                 | C% max.                                          |           | Si % max                  | Mn % max     | P % max      | S % max      | N % max      | Cu % max          | ≥16      | > 16≤ 40     | S235JR          | 0.19 | 0.19 | -- | 1.50         | 0.045 | 0.045 | 0.014 | 0.60 | S235JO | 0.19 | 0.19 | -- | 1.50 | 0.040 | 0.040 | 0.014 | 0.60 | S275JR | 0.24 | 0.24 | -- | 1.60 | 0.045 | 0.045 | 0.014 | 0.60 | S275JO | 0.21 | 0.21 | -- | 1.60 | 0.040 | 0.040 | 0.014 | 0.60 | S355JR | 0.27 | 0.27 | -- | 1.70 | 0.045 | 0.045 | 0.014 | 0.60 | S355JO | 0.23 | 0.23 | 0.60 | 1.70 | 0.040 | 0.040 | 0.014 | 0.60 | S355J2 | 0.23 | 0.23 | 0.60 | 1.70 | 0.035 | 0.035 | -- | 0.60 |
| Type and Value                        | C% max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Si % max                                     |                                | Mn % max                                         | P % max   |                           |              |              |              |              |                   | S % max  | N % max      | Cu % max        |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
|                                       | ≥16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | > 16≤ 40  |                                              |                                |                                                  |           |                           |              |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S235JR                                | 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.19      | --                                           | 1.50                           | 0.045                                            | 0.045     | 0.014                     | 0.60         |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S235JO                                | 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.19      | --                                           | 1.50                           | 0.040                                            | 0.040     | 0.014                     | 0.60         |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S275JR                                | 0.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.24      | --                                           | 1.60                           | 0.045                                            | 0.045     | 0.014                     | 0.60         |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S275JO                                | 0.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.21      | --                                           | 1.60                           | 0.040                                            | 0.040     | 0.014                     | 0.60         |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355JR                                | 0.27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.27      | --                                           | 1.70                           | 0.045                                            | 0.045     | 0.014                     | 0.60         |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355JO                                | 0.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.23      | 0.60                                         | 1.70                           | 0.040                                            | 0.040     | 0.014                     | 0.60         |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |
| S355J2                                | 0.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.23      | 0.60                                         | 1.70                           | 0.035                                            | 0.035     | --                        | 0.60         |              |              |              |                   |          |              |                 |      |      |    |              |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |    |      |       |       |       |      |        |      |      |      |      |       |       |       |      |        |      |      |      |      |       |       |    |      |

Signed for and on behalf of the manufacturer by:

R.C.M. Custers  
QHSE Manager  
Veghel, 24-10 2022

