



DECLARATION OF PERFORMANCE

European Regulation 305/2011

Statement Nr: DoP-S235JR
Rev. 00

- Unique product-type identification code:
Structural Hot Rolled - S235JR
- Intended use or uses of the construction product in accordance with the applicable harmonized technical specification, as provided for by the manufacturer:
Intended Uses: Metal structures or mixed structures of metal and concrete
- Manufacturer:
Lusosider - Aços Planos, S.A.
Avenida da Siderurgia Nacional

2840-075 Aldeia de Paio Pires
Portugal
Phone: +351 21 227 83 00 / Fax: +351 21 227 83 90
e-mail: lusosider@lusosider.pt
- System(s) of evaluation and verification of the performance regularity (EVPR):
System 2+
- Harmonized standard: **EN 10025-1:2004**
Notified Body: **1515**
- Declared performance(s)

Essential Characteristics	Performance	Reference Standard																																																																					
Dimensional Tolerances	<p>Thickness Tolerance:</p> <table border="1"> <thead> <tr> <th rowspan="2">Nominal Thickness (mm)</th> <th colspan="3">Nominal Width Tolerances (mm)</th> </tr> <tr> <th>≤1200</th> <th>>1200≤</th> <th>>1500≤</th> </tr> </thead> <tbody> <tr> <td>≤2.00</td> <td>± 0.17</td> <td>± 0.19</td> <td>± 0.21</td> </tr> <tr> <td>> 2.00 2.50≤</td> <td>± 0.18</td> <td>± 0.21</td> <td>± 0.23</td> </tr> <tr> <td>> 2.50 3.00≤</td> <td>± 0.20</td> <td>± 0.22</td> <td>± 0.24</td> </tr> <tr> <td>> 3.00 4.00≤</td> <td>± 0.22</td> <td>± 0.24</td> <td>± 0.26</td> </tr> <tr> <td>> 4.00 5.00≤</td> <td>± 0.24</td> <td>± 0.26</td> <td>± 0.28</td> </tr> </tbody> </table> <p>Width Tolerance:</p> <table border="1"> <thead> <tr> <th rowspan="3">Nominal Width (mm)</th> <th colspan="4">Tolerances (mm)</th> </tr> <tr> <th colspan="2">Rolling Edges</th> <th colspan="2">Sided Edges</th> </tr> <tr> <th>Minimum</th> <th>Maximum</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>≤1200</td> <td>-0</td> <td>+20</td> <td>-0</td> <td>+3</td> </tr> <tr> <td>> 1200≤</td> <td>-0</td> <td>+20</td> <td>-0</td> <td>+5</td> </tr> <tr> <td>> 1500</td> <td>-0</td> <td>+25</td> <td>-0</td> <td>+6</td> </tr> </tbody> </table> <p>Length Tolerances:</p> <table border="1"> <thead> <tr> <th rowspan="2">Nominal Length</th> <th colspan="2">Tolerances (mm)</th> </tr> <tr> <th>Lower Limit</th> <th>Upper Limit</th> </tr> </thead> <tbody> <tr> <td><2000</td> <td>- 0</td> <td>+ 10</td> </tr> <tr> <td>≥ 2000 < 8000</td> <td>- 0</td> <td>+ 0.005 x Nominal Length</td> </tr> <tr> <td>> 8000</td> <td>- 0</td> <td>+ 40</td> </tr> </tbody> </table>	Nominal Thickness (mm)	Nominal Width Tolerances (mm)			≤1200	>1200≤	>1500≤	≤2.00	± 0.17	± 0.19	± 0.21	> 2.00 2.50≤	± 0.18	± 0.21	± 0.23	> 2.50 3.00≤	± 0.20	± 0.22	± 0.24	> 3.00 4.00≤	± 0.22	± 0.24	± 0.26	> 4.00 5.00≤	± 0.24	± 0.26	± 0.28	Nominal Width (mm)	Tolerances (mm)				Rolling Edges		Sided Edges		Minimum	Maximum	Minimum	Maximum	≤1200	-0	+20	-0	+3	> 1200≤	-0	+20	-0	+5	> 1500	-0	+25	-0	+6	Nominal Length	Tolerances (mm)		Lower Limit	Upper Limit	<2000	- 0	+ 10	≥ 2000 < 8000	- 0	+ 0.005 x Nominal Length	> 8000	- 0	+ 40	EN 10051:2010
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Yield strength (Re)	235 MPa minimum																																																																						



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Essential Characteristics	Performance	Reference Standard
Tensile strength (Rm)	360 to 510 MPa	EN 10025-2:2019
Elongation (A80, $e \geq 3$ $L_0 = 5.65 \sqrt{S_0}$)	Thickness ≤ 1.5 mm: 18% minimum 1.5 < thickness ≤ 2.0 mm: 19% minimum 2.0 < 2.5 mm \leq : 20% minimum 2.5 < 3.0 mm \leq : 21% minimum 3.0 \leq 5.0 mm \leq : 26% minimum	
Chemical composition	Maximum % mass: C: 0.17; Mn: 1.40; P: 0.035; S: 0.035; N: 0.012; Cu: 0.55	

7. The performance of the product identified above complies to the declared performance set.

This declaration of performance shall be issued in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed by and on behalf of the manufacturer by:


Sandra Lopes

Aldeia de Paio Pires