



Министерство промышленности Республики Беларусь  
Производственное объединение

“Белорусский металлургический завод”  
Открытое акционерное общество  
“Белорусский металлургический завод”

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МФО 151501673, УНП 400074854

Ministry of Industry of the Republic of Belarus  
Production association

“Byelorussian Steel Works”  
Open Joint-Stock Company  
“Byelorussian Steel Works”

37 Promyshlennaya St, 247210, Zhlobin, Gomel region.  
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Acc. No. 301200380014 with JSCB “BELARUSBANK”, branch 312, Zhlobin,  
MFO 151501673, TRN 400074854

15.04.2016 № 4/313 а

На № \_\_\_\_\_ от \_\_\_\_\_

**Declaration of performance**  
**(European construction regulations №305/2011, Annex III)**

**№ 1.0117 / S235J2-CPR-1011**

- |  |   |
|--|---|
| 1. Unique identification code of product type  | S235J2 - EN 10025-2:2005-04   |
| 2. Product name  | Hot-rolled bars of construction steel for metalware   |
| 3. Manufacturer  | Open Joint Stock Company<br>«Byelorussian steel works — management company of «Byelorussian metallurgical company» holding»<br>37, Promyshlennaya str., 247210, Zhlobin, Republic of Belarus<br>Tel/fax +375 2334 54129<br><b>e-mail: <a href="mailto:qualdir@bmz.gomel.by">qualdir@bmz.gomel.by</a> <a href="http://www.belsteel.com">www.belsteel.com</a></b> |
| 4. Name and address of an authorized representative of the manufacturer acting under mandate | Not applicable  |
| 5. System for assessment and verification of performance characteristics                     | System 2+   |
| 6a. Harmonized specification   | EN 10025-2:2005-04  |
| - Name and number of notified institution that issued a certificate                          | Institution for certification of construction products and metal constructions registered under №0045 TÜV NORD System GmbH & Co.KG (Hamburg, Germany)   |
| 6b. European assessment document   | Not applicable  |



7. Declared performance

| Essential characteristics   | Performance characteristics |                            | Harmonized technical specifications |       |       |   |                                 |      |
|---|-----------------------------|----------------------------|-------------------------------------|-------|-------|---|---------------------------------|------|
| Diameter  | from 5,5 to 160mm           |                            | EN 10060:2003<br>(table 1)          |       |       |   |                                 |      |
| Yield strength  | Diameter, mm                | $R_{eH}$ , MPa, min        | EN 10025-2:2005-04<br>(table 7)     |       |       |   |                                 |      |
|   | 5,5 - 16                    | 235                        |                                     |       |       |   |                                 |      |
|   | 17 - 40                     | 225                        |                                     |       |       |   |                                 |      |
|   | 41 - 100                    | 215                        |                                     |       |       |   |                                 |      |
|   | 105 - 150                   | 195                        |                                     |       |       |   |                                 |      |
| Tensile strength  | Diameter, mm                | $R_m$ , MPa                | EN 10025-2:2005-04<br>(table 6)     |       |       |   |                                 |      |
|   | 5,5 - 100                   | 360-510                    |                                     |       |       |   |                                 |      |
|   | 105 - 150                   | 350-500                    |                                     |       |       |   |                                 |      |
|   | 160                         | 340-490                    |                                     |       |       |   |                                 |      |
| Specific elongation   | Diameter, mm                | $L_{05}$ , %, min          | EN 10025-2:2005-04<br>(table 9)     |       |       |   |                                 |      |
|   | 5,5 - 40                    | 24                         |                                     |       |       |   |                                 |      |
|   | 41 - 63                     | 23                         |                                     |       |       |   |                                 |      |
|   | 64 - 150                    | 22                         |                                     |       |       |   |                                 |      |
|   | 160                         | 21                         |                                     |       |       |   |                                 |      |
| Impact strength   | Diameter, mm                | $KV^c$ , J, at -20 °C, min | EN 10025-2:2005-04<br>(table 6)     |       |       |   |                                 |      |
|   | 5,5 - 160                   | 27                         |                                     |       |       |   |                                 |      |
| Carbon equivalent   | Diameter, mm                | C equiv., %, max           | EN 10025-2:2005-04<br>(table 2)     |       |       |   |                                 |      |
|   | 5,5 - 40                    | 0,35                       |                                     |       |       |   |                                 |      |
|   | 41 - 150                    | 0,38                       |                                     |       |       |   |                                 |      |
|   | 160                         | 0,40                       |                                     |       |       |   |                                 |      |
| Chemical composition  | Max. mass fraction, %       |                            |                                     |       |       |   | EN 10025-2:2005-04<br>(table 2) |      |
|   | C                           | Si                         | Mn                                  | P     | S*    | N |                                 | Cu   |
|   | 0,17                        | -                          | 1,40                                | 0,025 | 0,025 | - |                                 | 0,55 |
| Note:<br>* It is allowed to exceed max fraction of sulfur up to 0,040%, according to subparagraph e) of table 2 |                             |                            |                                     |       |       |   |                                 |      |

8. Appropriate technical documents and/or specific technical documents

Not applicable

The performance of the product identified in point 1 is in conformity with the performance characteristics declared in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Deputy General Director for Technology and Quality

Name and function



*E.A. Peretyagina*  
signature

E.A. Peretyagina

signature

Zhlobin

Place and date of issue