



MARIENHÜTTE

Product Data Sheet for  
reinforcing steel in bars

**B600B**

DIAMETER [mm]	<b>8-36</b>																												
BAR LENGTH [m]	<b>6-18*</b> <i>Special lengths available on request. (* ≥ 30 mm up to 30 m)</i>																												
CHEMICAL COMPONENTS & WELDABILITY [%]	<b>C ≤ 0,24   S ≤ 0,055   P ≤ 0,055   N ≤ 0,014   Cu ≤ 0,85   C<sub>eq</sub> ≤ 0,52</b> <i>By respecting the above mentioned chemical components the producer guarantees the weldability for each batch.</i>																												
LABELLING	 <p>B600B (high ductility)</p> <p>Producer Nr. 3 Stahl- und Walzwerk Marienhütte GmbH</p>																												
CERTIFICATES	<b>Austria:</b> <i>available on request</i>																												
STANDARDS	Production according to ÖNORM B4707																												
MECHANICAL-TECHNOLOGICAL PROPERTIES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0056b3; color: white;">Yield strength Re</td> <td style="background-color: #0056b3; color: white;">≥ 600 MPa</td> <td style="background-color: #0056b3; color: white;">Rib area fR</td> <td style="background-color: #0056b3; color: white;">≥ 0,040</td> </tr> <tr> <td></td> <td></td> <td style="background-color: #0056b3; color: white;">Ø 8 mm ≤ d ≤ Ø 12 mm</td> <td style="background-color: #0056b3; color: white;">≥ 0,056</td> </tr> <tr> <td></td> <td></td> <td style="background-color: #0056b3; color: white;">Ø 14 mm ≤ d ≤ Ø 40 mm</td> <td></td> </tr> <tr> <td style="background-color: #0056b3; color: white;">Yield strength R<sub>max</sub></td> <td style="background-color: #0056b3; color: white;">≤ 780 MPa</td> <td colspan="2" style="background-color: #0056b3; color: white;">Fatigue:</td> </tr> <tr> <td style="background-color: #0056b3; color: white;">Ratio (R<sub>m</sub>/R<sub>e</sub>)</td> <td style="background-color: #0056b3; color: white;">≥ 1,08</td> <td style="background-color: #0056b3; color: white;">High tension</td> <td style="background-color: #0056b3; color: white;">300 MPa</td> </tr> <tr> <td style="background-color: #0056b3; color: white;">Uniform strain A<sub>gt</sub></td> <td style="background-color: #0056b3; color: white;">≥ 5%</td> <td style="background-color: #0056b3; color: white;">Working stroke</td> <td style="background-color: #0056b3; color: white;">2 σ<sub>a</sub> für 2*10<sup>6</sup></td> </tr> <tr> <td></td> <td></td> <td style="background-color: #0056b3; color: white;">Load change</td> <td style="background-color: #0056b3; color: white;">150 MPa</td> </tr> </table>	Yield strength Re	≥ 600 MPa	Rib area fR	≥ 0,040			Ø 8 mm ≤ d ≤ Ø 12 mm	≥ 0,056			Ø 14 mm ≤ d ≤ Ø 40 mm		Yield strength R <sub>max</sub>	≤ 780 MPa	Fatigue:		Ratio (R <sub>m</sub> /R <sub>e</sub> )	≥ 1,08	High tension	300 MPa	Uniform strain A <sub>gt</sub>	≥ 5%	Working stroke	2 σ <sub>a</sub> für 2*10 <sup>6</sup>			Load change	150 MPa
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