New Grade 100 DYWIDAG THREADBAR®

Thanks to significant R&D efforts, DYWIDAG THREADBAR® Grade 100 reinforcement is now available in sizes #6 through #20. It has a continuous rolled-in pattern of thread-like deformations along its entire length. More durable than machined threads, the deformations allow nuts and couplers to thread onto a DYWIDAG THREADBAR® at any point along its length. The deformation pattern complies with ASTM A615 with no compromise in bond strength. All mechanical properties meet or exceed A615 Grade 100 requirements. Accompanying hardware and anchorages are available, some as shown below.

**Advantages of High-Strength THREADBAR® Reinforcement**

- Fewer bars to handle
- Less congestion
- Lighter reinforcement assemblies
- Faster construction

Having to hoist, handle and place a lower volume of reinforcing steel makes installation simpler and faster. And, less congestion results in higher quality concrete placement with reduced risk of consolidation issues. All these advantages result in a reduced volume of steel and shorter construction time leading to a lower overall cost of the reinforced concrete structure.
DYWIDAG THREADBAR® Reinforcing Steel ASTM A615 (Grade 100)

Reinforcing Steel Properties

<table>
<thead>
<tr>
<th>THREADBAR® Designation</th>
<th>Maximum THREADBAR® Diameter</th>
<th>Minimum Yield Stress ((f_y))</th>
<th>Nominal Cross Section Area ((A_s))</th>
<th>Minimum Yield Load ((f_y \times A_s))</th>
<th>Nominal Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>#6</td>
<td>19 [mm] 0.86 [in] 22 [mm]</td>
<td>100 [ksi] 690 [MPa]</td>
<td>0.44 [in²] 284 [mm²]</td>
<td>44.0 [kips] 196 [kN]</td>
<td>1.50 [lbs/ft] 2.23 [kg/m]</td>
</tr>
<tr>
<td>#7</td>
<td>22 [mm] 0.99 [in] 25 [mm]</td>
<td>100 [ksi] 690 [MPa]</td>
<td>0.60 [in²] 387 [mm²]</td>
<td>60.0 [kips] 267 [kN]</td>
<td>2.04 [lbs/ft] 3.04 [kg/m]</td>
</tr>
<tr>
<td>#14</td>
<td>43 [mm] 1.86 [in] 47 [mm]</td>
<td>100 [ksi] 690 [MPa]</td>
<td>2.25 [in²] 1,452 [mm²]</td>
<td>225.0 [kips] 1,001 [kN]</td>
<td>7.65 [lbs/ft] 11.38 [kg/m]</td>
</tr>
<tr>
<td>#18</td>
<td>57 [mm] 2.50 [in] 64 [mm]</td>
<td>100 [ksi] 690 [MPa]</td>
<td>4.00 [in²] 2,581 [mm²]</td>
<td>400.0 [kips] 1,779 [kN]</td>
<td>13.60 [lbs/ft] 20.24 [kg/m]</td>
</tr>
</tbody>
</table>

Vertical Reinforcement

Contact

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