A325 STRUCTURAL BOLTS
When you really need to hold it together!

100% NORTH AMERICAN

LELAND INDUSTRIES INC.
A325 STRUCTURAL BOLTS

- A325 Heavy Hex Structural Bolts assembled with one Heavy Hex Nut and one hardened F436 Washer. Bolts, nuts and washers also available separately.
- Leland Industries Inc. manufactures A325 bolts in 1/2” to 3/4” diameters and lengths up to 6”.
- These are available in Plain finish, Hot Dip Galvanized, or our proprietary NZF3000S Zinc Flake coating.
- Other finishes are available upon request.
- Fully threaded bolts are available in most diameters.
- Heads and threads always well formed.
- “Just-In-Time” delivery; product when you need it.
- New handy mini pails available.
- Made in North America.
- Other sizes available upon request.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>A Heavy Hex Bolt made of medium carbon steel. Bearing surface shall be flat and washer-faced. Point is chamfered.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFICATION</td>
<td>MATERIAL</td>
</tr>
<tr>
<td>ASTM A325</td>
<td>Medium Carbon Steel Rockwell 25-34</td>
</tr>
</tbody>
</table>

A325 Structural Bolts Assembled - Diameter & Length Chart

<table>
<thead>
<tr>
<th>DIA.</th>
<th>LENGTH UNDER HEAD IN INCHES</th>
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</thead>
</table>

- A325 TYPE 1 PLAIN  •  A325 HOT DIP GALVANIZED

Structural Nuts & Washers Size Chart

<table>
<thead>
<tr>
<th>DIA.</th>
<th>A563 STRUCTURAL NUTS</th>
<th>F436 WASHERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A563 GRADE C PLAIN</td>
<td>A563 GRADE DH HOT DIP GALVANIZED</td>
</tr>
<tr>
<td>1/2”</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>5/8”</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>3/4”</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
HEAVY HEX STRUCTURAL BOLT ACCESSORIES AVAILABLE FROM LELAND INDUSTRIES INC.

**SQUIRTER® DTI WASHERS** Direct Tension Indicators

Now You Can See ORANGE when Properly Tensioned

- Made to ASTM F969 for use with A325 and A490 bolts
- Provides high consistent bolt tension in heavy hex structural bolts

Contact Leland Industries Inc. for availability.

Squirter® DTIs & Squirter® DTI are registered trademarks of Applied Bolting Technology Products, Inc.

**HILLSIDE / SLOPE WASHERS**

Structural Slope Washers for the Metal Building Industry

- Cast Iron ASTM A-536-84 Gr. 65-45-12 - Available in hole size 1-1/8" Contact Leland Industries Inc. for availability
- Aluminum Hillside washers are also available - please call for information

Contact Leland Industries Inc. for availability.

**HARDENED BEVEL WASHERS**

Structural Beveled Washers for use with A325 & A490 Structural Bolts

- Hardened bevel structural washers are available to accommodate bolt sizes 1/2" to 1" diameter
- Supplied in plain finish to ASTM spec F436 Type 1
- 1-3/4" x 1-3/4" x 16-2/3° slope

Contact Leland Industries Inc. for availability.

**BRACER® HILLSIDE STYLE WASHERS**

Structural Beveled Washers for use with A325 & A490 Structural Bolts

- Available in 4 sizes to accommodate up to 1-1/2" bracing rod
- Structural quality ductile iron - ASTM 536-84 grade 65 - 45 - 12
- Elongation - 6° in 2"
- Ultimate tensile 65,000 P.S.I.
- Yield strength (.2° offset) 45,000 P.S.I.
- Bracer washers exceed the load carrying capacity of the x-bracing rods when selected to match the web thickness of the column section

Contact Leland Industries Inc. for availability.
ACCREDITATION TO ISO / IEC – 17025
SCOPE: MECHANICAL CERTIFICATION NUMBER: 1053-01
THERE ARE INTERNATIONAL AGREEMENTS OF MUTUAL RECOGNITION WITH EUROPE,
THE AMERICAS AND PACIFIC RIM COUNTRIES

The ISO/IEC 17025 accreditation applies to mechanical testing and does not imply certification/approval of the products described.
See the lab scope on our website for the specific tests covered by the accreditation.
This accreditation is restricted to the quality assurance laboratory located at the manufacturing plant and head office in Toronto, Ontario, Canada.

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TESTING LABORATORY

EQUIPMENT
• ACCREDITED TESTING LAB
• ASSEMBLY
• BOLT MAKERS
• HEADING
• NUT FORMING
• NUT TAPPING
• POINTING
• POWDER COATING
• SHANK SLOTTING
• THREAD ROLLING
• TOOL ROOM
• TRIMMING

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MAY 2018