ICC NTA, LLC Listing Report

Report Holder
American Bolt and Screw Mfg. Inc.
600 S. Wanamaker Ave.
Ontario, CA 91761
www.absfasteners.com

Distribution Locations
American Bolt and Screw Mfg. Inc.
600 S. Wanamaker Ave.
Ontario, CA 91761

1. Product
1.1 Lag Screw
1.1.1 5/16-9 x 4.8-in. HWH Twinfast Lag with Serrations, Part #31Z475BHWHM/P396
1.1.2 9-7 x 76 mm Special HWH Lag, Part #9Z76BH00/P496
1.1.3 9-7 x 76 mm Special HWH Galvanized Lag, Part #9Z76BH00H/P496

2. Standards
ICC NTA, LLC is listing the above product(s) for compliance with the applicable sections of the following standards:
2.1 ASTM F1575-03 Standard Test Method for Determining Bending Yield Moment of Nails

To obtain the most current ICC NTA NLR Report, visit www.icc-nta.org/report-search/

3. Manufacturing Quality Control
ICC NTA, LLC has evaluated the manufacturer’s quality system in accordance with:
3.1 NTA IM 018.1 Point of Distribution
3.2 NTA IM 036 Quality System Requirements
3.3 NTA IM 037 Physical Properties of Mechanical Fasteners

4. Description
4.1 General. The lag screws are manufactured from case hardened C1022 steel. The specifications for the 5/16-9 x 4.8-in. HWH Twinfast Lag with Serrations can be found in Figure 1. The specifications for the 9-7 x 76 mm Special HWH Lag and the 9-7 x 76 mm Special HWH Galvanized Lag can be found in Figure 2. The lag descriptions and markings are described in Table 1. The lag screws have a hex washer head as provided in Table 2. Photographs of the lag screws are provided in Figure 3.

5. Design
The scope of this listing report is limited to the fasteners specified in Section 1. Details related to incorporation of the product beyond that scope are the responsibility of the designer of record.

6. Installation
6.1 General. Lag screws shall be fabricated, identified and erected in accordance with this report, the approved construction documents and the applicable code. In the event of a conflict between the manufacturer’s published installation instructions and this report, this report shall govern. Approved construction documents shall be available at all times on the jobsite during installation.

This NLR report is intended to indicate that ICC NTA, LLC has listed the product described and found it to be eligible for labeling. Product not labeled as specified herein is not covered by this report. ICC NTA, LLC makes no warranty, either expressed or implied, regarding the product covered by this report. For more information or questions regarding this report please contact NTA at 1-833-NER-HELP (833-637-4357).
7. Evidence Submitted
Evaluation evidence and data are on file with ICC NTA, LLC. ICC NTA, LLC is accredited by A2LA as follows:
   - ISO 17020 Inspection Agency
   - ISO 17025 Testing Laboratory
   - ISO 17065 Product Certification Agency
The scope of accreditation related to testing, inspection or product certification pertain only to the test methods and/or standard referenced therein. Design parameters and the application of building code requirements, such as special inspection, have not been reviewed by A2LA and are not covered in the accreditation.

8. Findings
All products referenced herein are manufactured under an in-plant Quality Assurance program to ensure that the production quality meets or exceeds the requirements of the standards noted herein and the criteria as established by ICC NTA, LLC. Furthermore, product must comply with the requirements of this listing report.

This listing report is subject to annual review.

9. Markings
Each eligible product shall be permanently marked to provide the following information:
9.1 The ICC NTA, LLC listing mark, shown below.
9.2 NTA’s NLR No. NLR-1024
9.3 Name and address of manufacturer.
9.4 Product name and part number
9.5 Nominal fastener diameter and length
Table 1: Lag Identification

<table>
<thead>
<tr>
<th>American Bolt and Screw Part Number</th>
<th>Description</th>
<th>Head Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>31Z475BHW/M/P396</td>
<td>5/16-9 x 4.8-in. HWH Twinfast Lag with Serrations (See Figure 1)</td>
<td>ABS 396</td>
</tr>
<tr>
<td>9Z76BHW0M/P496</td>
<td>9-7 x 76 mm Special HWH Lag (See Figure 2)</td>
<td>ABS 496</td>
</tr>
<tr>
<td>9Z76BHW0H/P496</td>
<td>9-7 x 76 mm Special HWH Galvanized Lag (See Figure 2)</td>
<td>ABS 496</td>
</tr>
</tbody>
</table>

Table 2: Lag Dimensions and Design Properties

<table>
<thead>
<tr>
<th>American Bolt and Screw Part Number</th>
<th>Shank Diameter, $D_s$ (in.)</th>
<th>Major Diameter, $D$ (in.)</th>
<th>Root Diameter, $D_r$ (in.)</th>
<th>Length, $L$ (in.)</th>
<th>Thread Length, $T$ (in.)</th>
<th>Tip Length, $E$ (in.)</th>
<th>Bending Yield Stress, $F_{y,b}$ (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>31Z475BHW/M/P396</td>
<td>n/a</td>
<td>0.312</td>
<td>0.225</td>
<td>4.80</td>
<td>4.675</td>
<td>0.331</td>
<td>144,000</td>
</tr>
<tr>
<td>9Z76BHW0M/P496</td>
<td>0.394</td>
<td>0.364</td>
<td>0.246</td>
<td>3.00</td>
<td>2.60</td>
<td>0.258</td>
<td>193,000</td>
</tr>
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Figure 1: 5/16-9 x 4.8-in. HWH Twinfast Lag

Figure 2: 9-7 x 76 mm Special HWH Lag and 9-7 x 76 mm Special HWH Galvanized Lag
Figure 3: 5/16-9 x 4.8 in. Lag (Top), 9-7 x 76 mm Galvanized Lag (Middle), and 9-7 x 76 mm Lag (Bottom)