



**CERTIFICATION**



Approved. Sealed. Code Compliant.

## Technical Evaluation Report

**TER 1308-11**

FastenMaster® ThruLOK™  
Pole Barn Header Connection

**OMG, Inc. DBA FastenMaster®**

### Product:

**ThruLOK™ Screw Bolt  
Fastening System**

### Issue Date:

September 13, 2013

### Revision Date:

October 31, 2019

### Subject to Renewal:

October 1, 2020



COMPANY  
INFORMATION:

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OMG, Inc. DBA FastenMaster®

153 Bowles Rd  
Agawam, MA 01001-2908

413-789-0252

[mguthrie@olyfast.com](mailto:mguthrie@olyfast.com)

[fastenmaster.com](http://fastenmaster.com)

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DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

SECTION: 06 05 23 - Wood, Plastic, and Composite Fastenings

SECTION: 06 11 00 - Wood Framing

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## 1 PRODUCT EVALUATED<sup>1</sup>

1.1 ThruLOK™ Screw Bolt Fastening System

## 2 APPLICABLE CODES AND STANDARDS<sup>2,3</sup>

### 2.1 Codes

2.1.1 *IBC—12, 15, 18: International Building Code®*

2.1.2 *IRC—12, 15, 18: International Residential Code®*

### 2.2 Standards and Referenced Documents

2.2.1 *ANSI/AWC NDS: National Design Specification (NDS) for Wood Construction*

2.2.2 *ASTM A510: Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel*

2.2.3 *ASTM B695: Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel*

2.2.4 *ASTM F1575: Standard Test Method for Determining Bending Yield Moment of Nails*

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<sup>1</sup> Building codes require data from valid [research reports](#) be obtained from [approved sources](#). Agencies who are accredited through ISO/IEC 17065 have met the [code requirements](#) for approval by the [building official](#). DrJ is an ISO/IEC 17065 ANSI-Accredited Product Certification Body – Accreditation #1131.

Through ANSI accreditation and the [IAF MLA](#), DrJ certification can be used to obtain product approval in any [jurisdiction](#) or country that has [IAF MLA Members & Signatories](#) to meet the Purpose of the MLA – “certified once, accepted everywhere.”

Building official approval of a licensed [registered design professional](#) (RDP) is performed by verifying the RDP and/or their business entity complies with all professional engineering laws of the relevant [jurisdiction](#). Therefore, the work of licensed RDPs is accepted by [building officials](#), except when plan (i.e. peer) review finds an error with respect to a specific section of the code. Where this TER is not approved, the [building official](#) responds in writing stating the reasons for [disapproval](#).

For more information on any of these topics or our mission, product evaluation policies, product approval process, and engineering law, visit [drjcertification.org](http://drjcertification.org) or call us at 608-310-6748.

<sup>2</sup> Unless otherwise noted, all references in this TER are from the 2018 version of the codes and the standards referenced therein (e.g., *ASCE 7*, *NDS*, *ASTM*). This material, design, or method of construction also complies with the 2000-2015 versions of the referenced codes and the standards referenced therein.

<sup>3</sup> All terms defined in the applicable building codes are italicized.

### 3 PERFORMANCE EVALUATION

- 3.1 The ThruLOK™ Screw Bolt Fastening System was evaluated to determine its ability to provide code complying attachment of horizontal roof headers to vertical columns (posts) to resist roof to header to column gravity loads and the associated load paths.
  - 3.1.1 The evaluation includes both single header and double header configurations (Figure 2 and Figure 3).
- 3.2 Use of the ThruLOK™ Screw Bolt Fastening System for other connections is outside the scope of this technical evaluation report (TER).
- 3.3 Any code compliance issues not specifically addressed in this section are outside the scope of this TER.
- 3.4 Any engineering evaluation conducted for this TER was performed on the dates provided in this TER and within DrJ's professional scope of work.

### 4 PRODUCT DESCRIPTION AND MATERIALS

4.1 ThruLOK™ Screw Bolt Fastening System is shown in Figure 1.

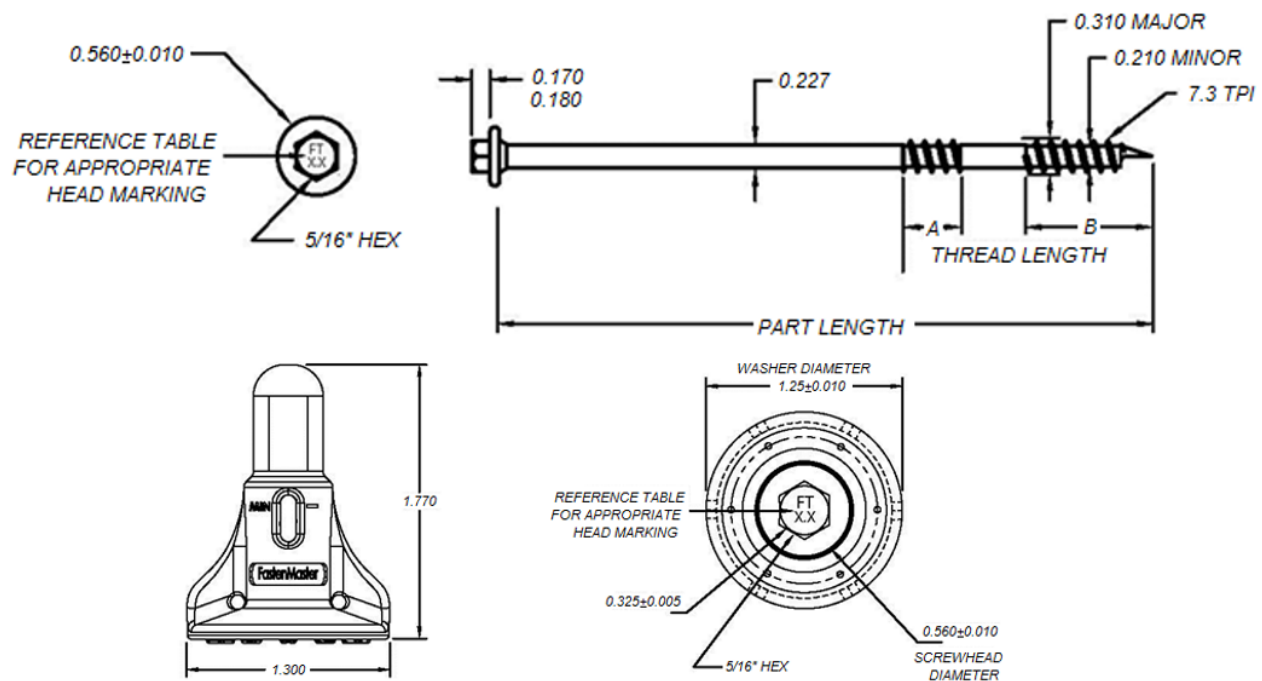


FIGURE 1. THRULOK™ SCREW BOLT FASTENING SYSTEM

4.1.1 The FastenMaster® ThruLOK™ series fasteners listed in Table 1 were evaluated.

TABLE 1. FASTENER DESIGNATION FOR THE THRULOK™ FASTENERS EVALUATED

| Fastener Name | Fastener Designation | Head Marking | Length <sup>1</sup> (in) | Length of Thread <sup>2</sup> (in) |     | Unthreaded Shank Diameter (in) | Minor Thread (Root) Diameter (in) | Allowable Bending Yield <sup>3</sup> (psi) |
|---------------|----------------------|--------------|--------------------------|------------------------------------|-----|--------------------------------|-----------------------------------|--|
|               |                      |              |                          | A                                  | B   |                                |                                   |  |
| ThruLOK™      | THR912               | FT9.5        | 9.5                      | 0.56                               | 1.2 | 0.227                          | 0.210                             | 218,400                                    |
|               | THR008               | FT8.0        | 8.0                      | 0.56                               | 1.2 | 0.227                          | 0.210                             | 218,400                                    |

SI: 1 in = 25.4 mm, 1 psi = 0.00689 MPa

1. Measured from the underside of the head to the point of the tip.
2. The thread lengths given for the ThruLOK™ are for zones A and B, as depicted in Figure 1.
3. Determined in accordance with methods specified in *ASTM F1575*, based on minor thread diameter using a 5% offset of the load displacement curves developed from bending tests.
4. Fastener designs were evaluated under *NDS* wet service (also known as wet-use) conditions to account for the effects of higher header and/or column moisture content.
5. Lumber used shall be either treated Southern Pine, treated Hem-Fir, or treated Douglas Fir.

4.1.2 ThruLOK™ fastener heads have a  $\frac{5}{16}$ " hex drive.

4.1.3 Allowable bending yield and critical dimensions are found in Table 1.

4.1.4 ThruLOK™ fasteners have a proprietary cutting point and are supplied with a ThruLOK™ washer and nut.

4.1.5 ThruLOK™ fasteners are manufactured with carbon steel grade 1022 or 10B21 wire conforming to *ASTM A510* with a minimum ultimate tensile strength of 60 ksi.

4.1.6 ThruLOK™ fasteners are coated with mechanically applied zinc in accordance with *ASTM B695*, Class 55 as specified in *JRC Section R317.3.1*.

4.2 Fasteners are approved for use in fire-retardant-treated lumber, provided the conditions set forth by the fire-retardant-treated lumber manufacturer are met, including appropriate strength reductions.

## 5 APPLICATIONS

### 5.1 Structural Applications

5.1.1 Where the application exceeds the limitations set forth herein, design shall be permitted in accordance with accepted engineering procedures, experience, and technical judgment.

5.2 Figure 2 and Table 2 illustrates the number of ThruLOK™ fasteners required to resist single shear of one header on one side of one column for various loading conditions.

5.2.1 Table 2 shows the number of ThruLOK™ fasteners needed for various snow loading conditions.

5.2.2 For the header configuration shown in Figure 2, it is assumed that the interior header will receive 75% of the load and the exterior header will receive 25% of the load.

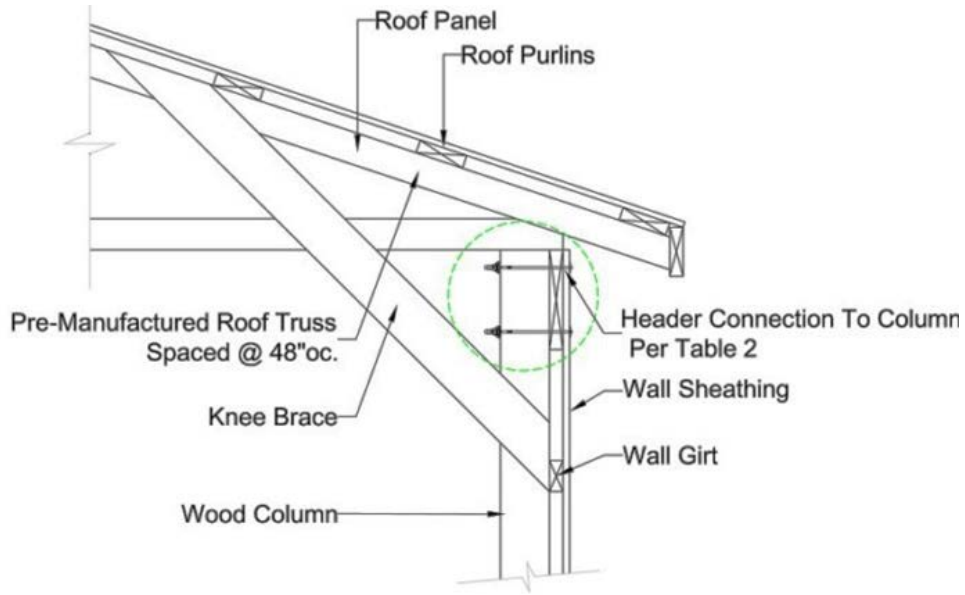


FIGURE 2. THRULOK™ SCREW BOLT FASTENING SYSTEM – ROOF TO HEADER DETAIL

TABLE 2. SINGLE SHEAR – TRUSS BEARING ON ONE HEADER TO ONE COLUMN

| Building Width Including 1' Overhang Each End (ft) | Species (Pressure Treated) | Truss Spacing (ft) | Column Spacing (ft) | Number of 8" ThruLOK™ Fasteners per Header |              |              |
|--|----------------------------|--------------------|---------------------|--|--------------|--------------|
|  |                            |                    |                     | Loading (Snow + TC Dead + BC Dead) PSF     |              |              |
|  |                            |                    |                     | 20+10+5 = 35                               | 30+10+5 = 45 | 40+10+5 = 55 |
| 24   | Hem-Fir                    | 4                  | 8                   | 4  | 6            | 6            |
|  | Douglas-Fir                |                    |                     | 4  | 4            | 6            |
|  | Mixed Southern Yellow Pine |                    |                     | 4  | 4            | 6            |
| 28   | Hem-Fir                    | 4                  | 8                   | 6  | 6            | 8            |
|  | Douglas-Fir                |                    |                     | 4  | 6            | 6            |
|  | Mixed Southern Yellow Pine |                    |                     | 4  | 6            | 6            |
| 32   | Hem-Fir                    | 4                  | 8                   | 6  | 8            | 8            |
|  | Douglas-Fir                |                    |                     | 6  | 6            | 8            |
|  | Mixed Southern Yellow Pine |                    |                     | 4  | 6            | 8            |
| 36   | Hem-Fir                    | 4                  | 8                   | 6  | 8            | -            |
|  | Douglas-Fir                |                    |                     | 6  | 6            | 8            |
|  | Mixed Southern Yellow Pine |                    |                     | 6  | 6            | 8            |
| 40   | Hem-Fir                    | 4                  | 8                   | 6  | 8            | -            |
|  | Douglas-Fir                |                    |                     | 6  | 8            | -            |
|  | Mixed Southern Yellow Pine |                    |                     | 6  | 6            | 8            |
| 44   | Hem-Fir                    | 4                  | 8                   | 8  | -            | -            |
|  | Douglas-Fir                |                    |                     | 6  | 8            | -            |
|  | Mixed Southern Yellow Pine |                    |                     | 6  | 8            | -            |
| 48   | Hem-Fir                    | 4                  | 8                   | 8  | -            | -            |
|  | Douglas-Fir                |                    |                     | 8  | 8            | -            |
|  | Mixed Southern Yellow Pine |                    |                     | 6  | 8            | -            |
| 52   | Hem-Fir                    | 4                  | 8                   | 8  | -            | -            |
|  | Douglas-Fir                |                    |                     | 8  | -            | -            |
|  | Mixed Southern Yellow Pine |                    |                     | 8  | 8            | -            |

 SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m<sup>2</sup>

- Fastener designs were evaluated under *NDS* wet service (also known as wet use) conditions to account for the effects of higher header and/or column moisture content.
- Lumber used shall be either treated Southern Pine, treated Hem-Fir, or treated Douglas Fir.
- Connection design assumes that the header supports one truss located at midspan of the header. Trusses located at the columns shall be supported by bearing on the column and shall not apply loads to the header.
- Design of all wood members (e.g., columns/posts, headers, trusses, girts, knee braces) and connections not shown are by others.
- See Section 5.4 for information on minimum required edge and end distances.

5.3 Figure 3 and Table 3 show the number of ThruLOK™ fasteners required to resist the shear of one header on one side of a single column and another header on the opposite side of the column, where both headers are connected to the column with ThruLOK™ fasteners.

5.3.1 Table 3 shows the number of ThruLOK™ fasteners needed for various snow loading conditions.

5.3.2 For the header configuration shown in Figure 3, it is assumed that the interior header will receive 75% of the load and the exterior header will receive 25% of the load.

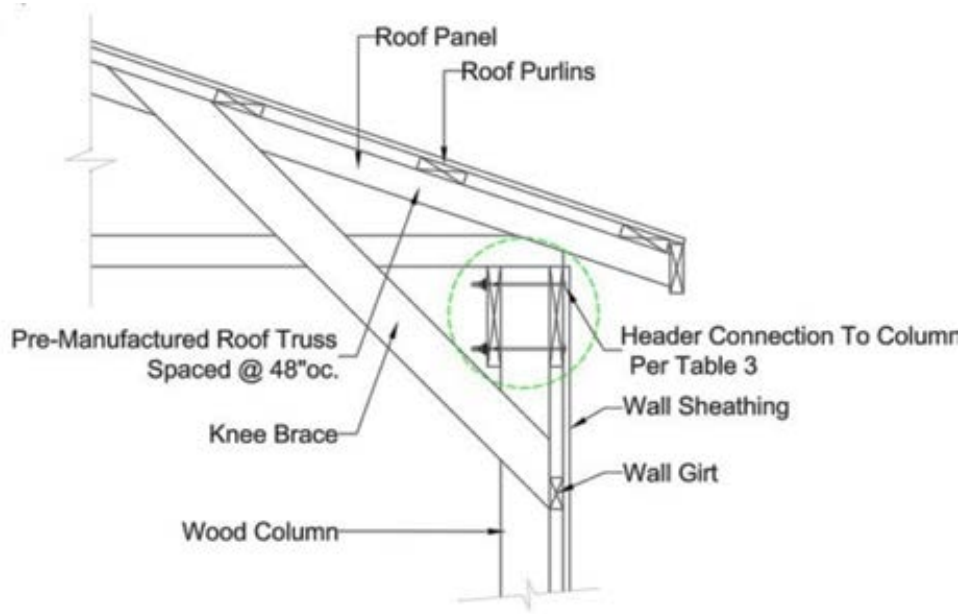


FIGURE 3. THRULOK™ SCREW BOLT FASTENING SYSTEM – ROOF TO HEADER DETAIL

TABLE 3. TWO-BEAM SHEAR – TRUSS BEARING ON TWO HEADERS CONNECTED TO ONE COLUMN

| Building Width Including 1' Overhang Each End (ft) | Species (Pressure Treated) | Truss Spacing (ft) | Column Spacing (ft) | Number of 9½" ThruLOK™ Fasteners per Header |              |              |
|--|----------------------------|--------------------|---------------------|---|--------------|--------------|
|  |                            |                    |                     | Loading (Snow + TC Dead + BC Dead) PSF      |              |              |
|  |                            |                    |                     | 20+10+5 = 35                                | 30+10+5 = 45 | 40+10+5 = 55 |
| 24   | Hem-Fir                    | 4                  | 8                   | 4   | 4            | 6            |
|  | Douglas-Fir                |                    |                     | 4   | 4            | 4            |
|  | Mixed Southern Yellow Pine |                    |                     | 4   | 4            | 4            |
| 28   | Hem-Fir                    | 4                  | 8                   | 4   | 6            | 6            |
|  | Douglas-Fir                |                    |                     | 4   | 4            | 6            |
|  | Mixed Southern Yellow Pine |                    |                     | 4   | 4            | 4            |
| 32   | Hem-Fir                    | 4                  | 8                   | 4   | 6            | 6            |
|  | Douglas-Fir                |                    |                     | 4   | 4            | 6            |
|  | Mixed Southern Yellow Pine |                    |                     | 4   | 4            | 6            |
| 36   | Hem-Fir                    | 4                  | 8                   | 6   | 6            | 8            |
|  | Douglas-Fir                |                    |                     | 4   | 6            | 6            |
|  | Mixed Southern Yellow Pine |                    |                     | 4   | 6            | 6            |
| 40   | Hem-Fir                    | 4                  | 8                   | 6   | 6            | 8            |
|  | Douglas-Fir                |                    |                     | 4   | 6            | 8            |
|  | Mixed Southern Yellow Pine |                    |                     | 4   | 6            | 6            |
| 44   | Hem-Fir                    | 4                  | 8                   | 6   | 8            | 8            |
|  | Douglas-Fir                |                    |                     | 6   | 8            | 8            |
|  | Mixed Southern Yellow Pine |                    |                     | 4   | 6            | 8            |
| 48   | Hem-Fir                    | 4                  | 8                   | 6   | 8            | -            |
|  | Douglas-Fir                |                    |                     | 6   | 6            | 8            |
|  | Mixed Southern Yellow Pine |                    |                     | 6   | 6            | 8            |
| 52   | Hem-Fir                    | 4                  | 8                   | 6   | 8            | -            |
|  | Douglas-Fir                |                    |                     | 6   | 8            | 8            |
|  | Mixed Southern Yellow Pine |                    |                     | 6   | 6            | 8            |

 SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m<sup>2</sup>

1. Fastener designs were evaluated under *NDS* wet service (also known as wet use) conditions to account for the effects of higher header and/or column moisture content.
2. Lumber used shall be either treated Southern Pine, treated Hem-Fir, or treated Douglas Fir.
3. Connection design assumes that the header supports one truss located at midspan of the header. Trusses located at the columns shall be supported by bearing on the column and shall not apply loads to the header.
4. See Section 5.4 for information on minimum required edge and end distances.
5. Design of all wood members (e.g., columns/posts, headers, trusses, girts) and connections not shown are by others.



5.4 Figure 4 and Table 4 provide the required edge and end distances for these applications.

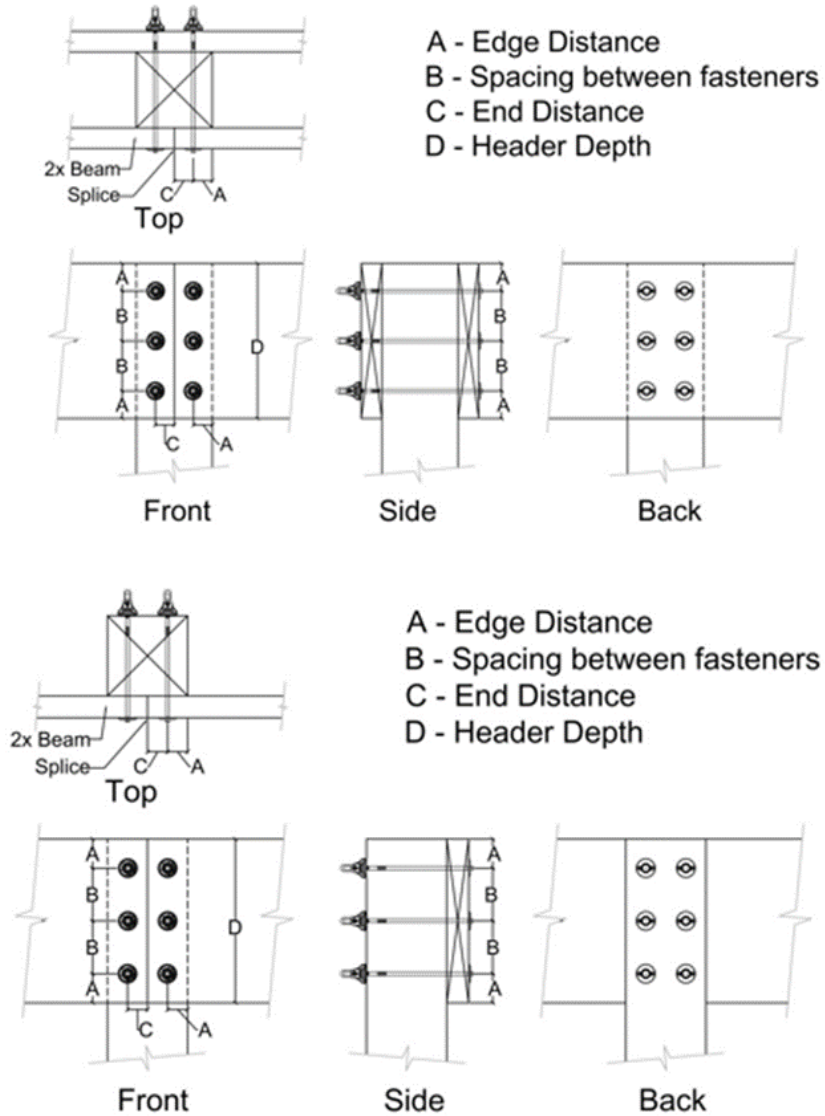


FIGURE 4. THRULOK™ SCREW BOLT FASTENING SYSTEM – EDGE, END, AND SPACING REQUIREMENTS

TABLE 4. FASTENER EDGE, END DISTANCE, AND SPACING FOR THE THRULOK™ FASTENERS EVALUATED IN THIS TER

| Fastener          | Beam Size | Number of Fasteners | Header Member           |                        | Column Member                            |                        | Fastener Spacing Between Rows (in) |
|-------------------|-----------|---------------------|-------------------------|------------------------|--|------------------------|------------------------------------|
|                   |           |                     | Min. Edge Distance (in) | Min. End Distance (in) | Min. Edge Distance (in)                  | Min. End Distance (in) |                                    |
| 8" & 9½" ThruLOK™ | 2x8       | 4                   | 2                       | 1                      | Greater of 1" or ½" spacing between rows | 2                      | ¾                                  |
|                   |           | 6                   |                         |                        |  |                        | 1⅝                                 |
|                   | 2x10      | 4                   | 2                       | 1                      | Greater of 1" or ½" spacing between rows | 2                      | 5¼                                 |
|                   |           | 6                   |                         |                        |  |                        | 2⅝                                 |
|                   |           | 8                   |                         |                        |  |                        | 1¾                                 |
|                   | 2x12      | 4                   | 2                       | 1                      | Greater of 1" or ½" spacing between rows | 2                      | 5⅝                                 |
|                   |           | 6                   |                         |                        |  |                        | 3⅝                                 |
|                   |           | 8                   |                         |                        |  |                        | 2½                                 |

SI: 1 in = 25.4 mm

1. Fastener designs were evaluated under *NDS* wet service (also known as wet-use) conditions to account for the effects of higher header and/or column moisture content.
2. Lumber used shall be either treated Southern Pine, treated Hem-Fir, or treated Douglas Fir.
3. Design of all wood members (e.g., columns/posts, headers, trusses, girts) by others.

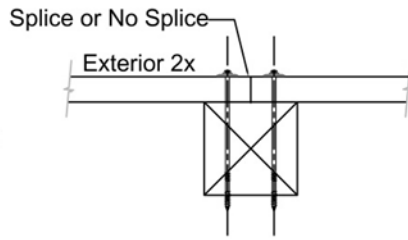
## 6 INSTALLATION

6.1 Installation shall comply with the manufacturer's installation instructions and this TER. In the event of a conflict between the manufacturer's installation instructions and this TER, the more restrictive shall govern.

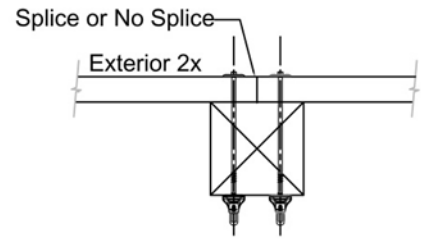
### 6.2 Installation Procedure

- 6.2.1 The following installation instructions provide the general method of installing the FastenMaster® ThruLOK™ Screw Bolt Fastening System for use with the specific applications as described in Section 5.
- 6.2.2 Place the ThruLOK™ washer on the ThruLOK™ screw with the teeth of the washer facing away from the head of the fastener (toward the threads of the fastener).
- 6.2.3 Using a high-torque, ½" variable-speed drill (18V if cordless) with a 5/16" hex-head driver bit, drive the ThruLOK™ through the framing until the washer and hex head are just above the wood surface (approximately ¼"), and the point of the screw protrudes out of the other side of the connection.
- 6.2.4 Thread the ThruLOK™ nut onto the point of the fastener and hand tighten the nut until it is flush with the wood.
- 6.2.5 Tighten the screw with the drill-driver.
- 6.2.6 The point of the fastener must engage in the ThruLOK™ nut to the "MIN" line or beyond (Figure 1).
- 6.2.7 A diagram of the installation of a header with a splice on the interior side of a column is illustrated in Figure 5. A diagram of the installation of a header with a splice on the exterior side of a column is illustrated in Figure 6.

Installation procedure for when a single 2x header is installed at exterior of column.

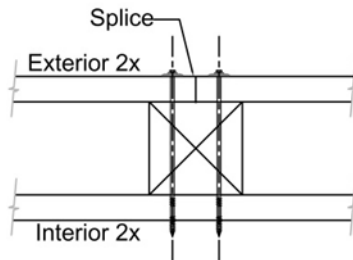


**Step 1.** Install ThruLok's from exterior 2x header's side to ensure end and edge distances are maintained.

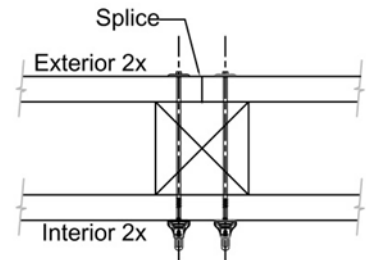


**Step 2.** Install nut on interior face and tighten

Installation procedure for when a header splice falls on exterior side of the column.



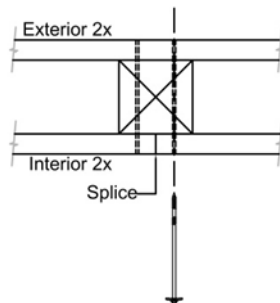
**Step 1.** Install ThruLok's from splice side (exterior 2x header side) to ensure end and edge distances are maintained.



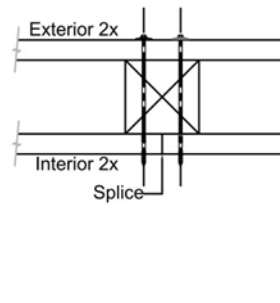
**Step 2.** Install nut on interior face and tighten

FIGURE 5. INSTALLATION OF HEADER WITH SPLICE ON EXTERIOR SIDE OF COLUMN

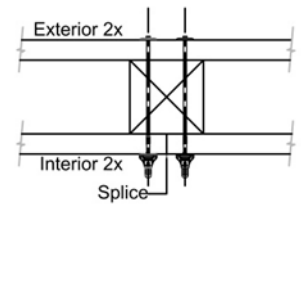
Installation procedure for when a header splice falls on interior side of the column.



**Step 1.** Predrill holes for the fastener from the interior side (spliced side) of assembly using the ThruLoks to ensure end and edge distances are maintained.



**Step 2.** Install ThruLok's through predrilled holes from exterior 2x header face as shown



**Step 3.** Install nut on interior face and tighten

FIGURE 6. INSTALLATION OF HEADER WITH SPLICE ON INTERIOR SIDE OF COLUMN

## 7 TEST ENGINEERING SUBSTANTIATING DATA

- 7.1 Test reports and data supporting the ThruLOK™ Screw Bolt Fastening System structural properties and application specifications include:
  - 7.1.1 University of Montana Wood Science Laboratory, *Determination of Lateral Withdrawal Strength of OMG ThruLOK® Fasteners Based on Specific Gravity and Grain Orientation of ACQ Treated Lumber*, UMWSL Project # 2010101-1.
  - 7.1.2 Engineering analysis and calculations by Qualtim, Inc.
- 7.2 Some information contained herein is the result of testing and/or data analysis by other sources which conform to [IBC Section 1703](#) and relevant [professional engineering law](#). DrJ relies on accurate data from these sources to perform engineering analysis. DrJ has reviewed and found the data provided by other professional sources to be credible.
- 7.3 Where appropriate, DrJ's analysis is based on design values that have been codified into law through codes and standards (e.g., *IBC*, *IRC*, *NDS®*, and *SDPWS*). This includes review of code provisions and any related test data that aids in comparative analysis or provides support for equivalency to an intended end-use application. Where the accuracy of design values provided herein is reliant upon the published properties of commodity materials (e.g., lumber, steel, and concrete), DrJ relies upon the grade mark, stamp, and/or design values provided by raw material suppliers to be accurate and conforming to the mechanical properties defined in the relevant material standard.

## 8 FINDINGS

- 8.1 When used and installed in accordance with this TER and the manufacturer's installation instructions, the product(s) listed in Section 1.1 are approved for the following:
  - 8.1.1 For fastening roof headers to columns for the conditions specified in Table 2 and Table 3.
- 8.2 [IBC Section 104.11](#) ([IRC Section R104.11](#) and [IFC Section 104.9](#) are similar) states:

**104.11 Alternative materials, design and methods of construction and equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been *approved*. An alternative material, design or method of construction shall be *approved* where the *building official* finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code...Where the alternative material, design or method of construction is not *approved*, the *building official* shall respond in writing, stating the reasons the alternative was not *approved*.
- 8.3 This product has been evaluated in the context of the codes listed in Section 2 and is compliant with all known state and local building codes. Where there are known variations in state or local codes applicable to this evaluation, they are listed here.
  - 8.3.1 No known variations

## 9 CONDITIONS OF USE

- 9.1 The ThruLOK™ Screw Bolt Fastening System covered by this TER shall be subject to the following conditions:
  - 9.1.1 This TER and the installation instructions, when required by a code official, shall be available at the time of permit application.
  - 9.1.2 Installation shall comply with this TER and the manufacturer's installation instructions. In the event of a conflict between this TER and the manufacturer's installation instructions, the more restrictive shall govern.
  - 9.1.3 Fastener designs were evaluated under *NDS* wet service (also known as wet use) conditions to account for the effects of higher header and/or column moisture content.
  - 9.1.4 Lumber used shall be either treated Southern Pine, treated Hem-Fir, or treated Douglas Fir.

- 9.1.5 For conditions not covered in this TER, connections shall be designed in accordance with generally accepted engineering practice.
- 9.1.6 Manufacturer's installation instructions shall be followed as provided in Section 6 and at [fastenmaster.com](http://fastenmaster.com).
- 9.1.7 The ThruLOK™ series fasteners are produced by OMG, Inc.'s facility located in Agawam, Massachusetts.
- 9.1.8 The fasteners are identified by the designation "ThruLOK™" on the packaging. The head of the ThruLOK™ fastener is marked with an "FT" followed by a number corresponding to the length of the fastener.
  - 9.1.8.1 The packaging shall include OMG's name and address, fastener size, third-party inspection agency, and this TER number.
- 9.1.9 The ThruLOK™ series fasteners are produced under a quality control program subject to periodic inspections in accordance with [IBC Section 1703.5.2](#).
- 9.2 Where required by the *building official*, also known as the authority having jurisdiction (AHJ) in which the project is to be constructed, this TER and the installation instructions shall be submitted at the time of *permit* application.
- 9.3 Any generally accepted engineering calculations needed to show compliance with this TER shall be submitted to the AHJ for review and approval.
- 9.4 *Design loads* shall be determined in accordance with the building code adopted by the *jurisdiction* in which the project is to be constructed and/or by the Building Designer (e.g., *owner* or *registered design professional*).
- 9.5 At a minimum, this product shall be installed per Section 6 of this TER.
- 9.6 This product is manufactured under a third-party quality control program in accordance with [IBC Section 104.4](#) and [110.4](#) and [IRC Section R104.4](#) and [R109.2](#).
- 9.7 The actual design, suitability, and use of this TER, for any particular building, is the responsibility of the *owner* or the owner's authorized agent. Therefore, the TER shall be reviewed for code compliance by the *building official* for acceptance.
- 9.8 The use of this TER is dependent on the manufacturer's in-plant QC, the ISO/IEC 17020 third-party quality assurance program and procedures, proper installation per the manufacturer's instructions, the *building official's* inspection, and any other code requirements that may apply to demonstrate and verify compliance with the applicable building code.

## 10 IDENTIFICATION

- 10.1 The product(s) listed in Section 1.1 are identified by a label on the board or packaging material bearing the manufacturer's name, product name, TER number, and other information to confirm code compliance.
- 10.2 Additional technical information can be found at [fastenmaster.com](http://fastenmaster.com).

## 11 REVIEW SCHEDULE

- 11.1 This TER is subject to periodic review and revision. For the most recent version of this TER, visit [drjcertification.org](http://drjcertification.org).
- 11.2 For information on the current status of this TER, contact [DrJ Certification](#).