

Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 1203-03



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FastenMaster® LedgerLOK® Ledger Board Fasteners for Use in Deck Ledger Applications

Trade Secret Report Holder:

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CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

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

Section: 06 11 00 - Wood Framing

Section: 06 15 00 - Wood Decking

1 Innovative Product Evaluated¹

1.1 LedgerLOK Ledger Board Fasteners

2 Product Description and Materials

2.1 The innovative product evaluated in this report is shown in **Figure 1**.

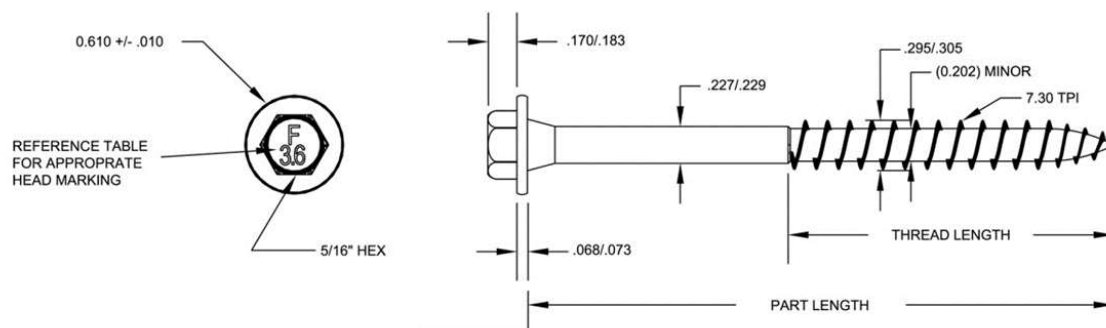


Figure 1. LedgerLOK Ledger Board Fasteners (in)

2.2 LedgerLOK Ledger Board Fasteners are manufactured with carbon steel grade 1022 or 10B21 wire conforming to ASTM A510 with a minimum ultimate tensile strength of 60 ksi.



2.3 LedgerLOK Ledger Board Fasteners are manufactured using a standard cold-formed process followed by a heat-treating process. Allowable bending yield and critical dimensions are found in **Figure 1** and **Table 1**.

2.3.1 LedgerLOK Ledger Board Fasteners heads are a $\frac{5}{16}$ " hex drive with a built-in oversized washer.

2.3.2 LedgerLOK Ledger Board Fasteners have a gimlet point.

2.4 The LedgerLOK Ledger Board Fasteners that were evaluated are shown in **Table 1**.

Table 1. Fastener Specifications

Fastener Name	Fastener Designation	Head Marking	Length ¹ (in)	Thread Length ² (in)	Unthreaded Shank Diameter (in)	Minor Thread (Root) Diameter (in)	Nominal Bending Yield Strength, F _{yb} (psi) ³	Allowable Fastener Strength (lb)	
								Tensile	Shear
LedgerLOK	FMLL358	F3.6	$\frac{35}{8}$	2	0.228	0.202	200,700	1,835	1,235
	FMLL005	F5.0	5	3					

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

1. Measured from the underside of the head to the bottom of the tip
2. Includes tip; see **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.

2.5 LedgerLOK Ledger Board Fasteners have a proprietary galvanized and epoxy coating, which provides corrosion protection that exceeds that provided by code approved hot-dipped galvanized coatings meeting ASTM A153 (IBC Section 2304.10.6² and IRC Section R304.3).

2.5.1 LedgerLOK Ledger Board Fasteners are approved for use in exterior conditions and in pressure-treated wood, including ground contact ACQ. The proprietary coating has been tested and found to exceed the corrosion protection provided by code approved hot-dipped galvanized coatings meeting ASTM A153 (IBC Section 2304.10.6³ and IRC Section R304.3).

2.6 LedgerLOK Ledger Board 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.

2.7 In-plant quality control procedures, under which the LedgerLOK Ledger Board Fasteners are manufactured, are audited through an inspection process performed by an approved agency.

2.8 As needed, review material properties for design in **Section 6** and the regulatory evaluation in **Section 8**.

3 Definitions⁴

3.1 New Materials⁵ are defined as building materials, equipment, appliances, systems, or methods of construction, not provided for by prescriptive and/or legislatively adopted regulations, known as alternative materials.⁶ The design strength and permissible stresses shall be established by tests⁷ and/or engineering analysis.⁸

3.2 Duly authenticated reports⁹ and research reports¹⁰ are test reports and related engineering evaluations that are written by an approved agency¹¹ and/or an approved source.¹²

3.2.1 These reports utilize intellectual property and/or trade secrets to create public domain material properties for commercial end-use.

3.2.1.1 This report protects confidential Intellectual Property and trade secrets under the regulation, 18.U.S.Code.90, also known as Defend Trade Secrets Act of 2016 (DTSA).¹³



- 3.3 An approved agency is “approved” when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is accredited and listed in the ANAB directory.
- 3.4 An approved source is “approved” when a professional engineer (i.e., Registered Design Professional, hereinafter RDP) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.¹⁴
- 3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an ISO/IEC 17025 accredited testing laboratory, an ISO/IEC 17020 accredited inspection body, and/or a licensed RDP.
- 3.5.1 The Center for Building Innovation (CBI) is ANAB¹⁵ ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall enforce¹⁶ the specific provisions of each legislatively adopted regulation. If there is a non-conformance, the specific regulatory section and language of the non-conformance shall be provided in writing¹⁷ stating the nonconformance and the path to its cure.
- 3.7 The regulatory authority shall accept duly authenticated reports from an approved agency and/or an approved source with respect to the quality and manner of use of new materials or assemblies as provided for in regulations regarding the use of alternative materials, designs, or methods of construction.¹⁸
- 3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory. Therefore, recognition of certificates and validation statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope shall be approved.¹⁹ Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,²⁰ and can be used in any country that is an MLA signatory found at this link: <https://iaf.nu/en/recognised-abs/>
- 3.9 Approval equity is a fundamental commercial and legal principle.²¹

4 Applicable Local, State, and Federal Approvals; Standards; Regulations²²

4.1 Local, State, and Federal

- 4.1.1 Approved in all local jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes the following featured local jurisdictions and is not limited to: Austin, Baltimore, Broward County, Chicago, Clark County, Dade County, Dallas, Detroit, Denver, DuPage County, Fort Worth, Houston, Kansas City, King County, Knoxville, Las Vegas, Los Angeles City, Los Angeles County, Miami, Nashville, New York City, Omaha, Philadelphia, Phoenix, Portland, San Antonio, San Diego, San Jose, San Francisco, Seattle, Sioux Falls, South Holland, Texas Department of Insurance, and Wichita.²³
- 4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes the following featured states, and is not limited to: California, Florida, New Jersey, Oregon, New York, Texas, Washington, and Wisconsin.²⁴
- 4.1.3 Approved by the Code of Federal Regulations Manufactured Home Construction: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14²⁵ and Part 3280²⁶ pursuant to the use of ISO/IEC 17065 duly authenticated reports.
- 4.1.4 Approved means complying with the requirements of local, state, or federal legislation.

4.2 Standards

- 4.2.1 *ANSI/AWC NDS: National Design Specification (NDS) for Wood Construction*
- 4.2.2 *ASTM A153: Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware*
- 4.2.3 *ASTM A510: Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel*
- 4.2.4 *ASTM E72: Standard Test Methods of Conducting Tests of Panels for Building Construction*
- 4.2.5 *ASTM F1575: Standard Test Method for Determining Bending Yield Moment of Nails*



4.3 Regulations

- 4.3.1 IBC – 15, 18, 21, 24: International Building Code®
- 4.3.2 IRC – 15, 18, 21, 24: International Residential Code®
- 4.3.3 IECC – 15, 18, 21, 24: International Energy Conservation Code®

5 Listed²⁷

- 5.1 Equipment, materials, products, or services included in a List published by a nationally recognized testing laboratory (i.e., CBI), an approved agency (i.e., CBI and DrJ), and/or and approved source (i.e., DrJ), or other organization(s) concerned with product evaluation (i.e., DrJ), that maintains periodic inspection (i.e., CBI) of production of listed equipment or materials, and whose listing states either that the equipment or material meets nationally recognized standards or has been tested and found suitable for use in a specified manner.

6 Tabulated Properties Generated from Nationally Recognized Standards

- 6.1 LedgerLOK Ledger Board Fasteners are designed specifically for attaching the deck ledger to the rim joist of a building in accordance with IBC Section 1604.8.3 and IRC Section R507.9.²⁸
- 6.2 The IRC provides prescriptive fastener spacing for the attachment of a deck ledger to a rim joist with 1/2" diameter lag screws or through bolts as shown in IRC Table R507.9.1.3(1).²⁹
- 6.3 The LedgerLOK Ledger Board Fasteners spacing required to provide performance at least equivalent to the lag screws found in IRC Table R507.9.1.3(1)³⁰ in accordance with IBC Section 104.2.3, IBC Section 1604.8.3, IRC Section R104.2.2, and IRC Section R507.9, and generally accepted engineering practice, is provided in **Table 2**.
- 6.3.1 The LedgerLOK Ledger Board Fasteners spacing for items found in IRC Table R507.9.1.3(1),³¹ as well as a wider range of materials commonly used for rim joists is shown in **Table 2**.



Table 2. LedgerLOK Ledger Board Fasteners Spacing for Items in IRC Table R507.9.1.3(1) and Other Materials and Loading Conditions

Loading Condition (psf)	2x Nominal Ledger Species	Rim Joist Material ³	Maximum On-center Spacing of LedgerLOK Ledger Board Fasteners (in)						
			Maximum Deck Joist Spans ^{1,2,4,5,6} (ft)						
			Up to 6'	Up to 8'	Up to 10'	Up to 12'	Up to 14'	Up to 16'	Up to 18'
LL + DL 40 + 10	HF/SPF	2x Nominal Sawn Lumber	20	15	12	10	8	7	6
		1" min EWP	25	19	15	12	10	9	8
	DF/SP	Nominal Sawn Lumber	24	18	14	12	10	9	8
		1" min EWP	25	19	15	12	10	9	8
SL + DL 50 + 10	HF/SPF	2x Nominal Sawn Lumber	17	12	10	8	7	6	5
		1" min EWP	21	16	12	10	9	8	7
	DF/SP	Nominal Sawn Lumber	20	15	12	10	8	7	6
		1" min EWP	21	16	12	10	9	8	7
SL + DL 60 + 10	HF/SPF	2x Nominal Sawn Lumber	14	11	8	7	6	5	4
		1" min EWP	18	13	10	9	7	6	6
	DF/SP	Nominal Sawn Lumber	17	13	10	8	7	6	5
		1" min EWP	18	13	10	9	7	6	6
SL + DL 70 + 10	HF/SPF	2x Nominal Sawn Lumber	12	9	7	6	5	4	4
		1" min EWP	16	12	9	8	6	6	5
	DF/SP	Nominal Sawn Lumber	15	11	9	7	6	5	5
		1" min EWP	16	12	9	8	6	6	5

SI: 1" = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Based on load duration of 1.0. Spacing may be adjusted by the applicable load duration as specified in NDS.
2. Fasteners are required to have full thread penetration into the main member. Excess fastener length extending beyond the main member is not reflected in the table above.
3. Solid sawn rim joists shall be HF, SPF, DF-L or SP species, designed by others.
4. Fastener spacing is based on tested loads. The design values use the lesser of a 1/8" deflection limitation or a factor of safety equivalent to or greater than that of the code compliant lag screw application as defined in **Figure 2**.
5. Fasteners shall be staggered from the top to the bottom along the length of the ledger while maintaining the required edge and end distances shown in **Figure 2**.
6. A maximum 1/2" structural sheathing may be installed between the ledger and the band joist.

6.4 When installed in accordance with the spacing requirements of **Table 2**, LedgerLOK Ledger Board Fasteners provide equivalent performance to IRC Table R507.9.1.3(1).³²

6.5 Where the application falls outside of the performance evaluation, conditions of use, and/or installation requirements set forth herein, alternative techniques shall be permitted in accordance with accepted engineering practice and experience. This includes but is not limited to the following areas of engineering: mechanics or materials, structural, building science, and fire science.



7 Certified Performance³³

- 7.1 All construction methods shall conform to accepted engineering practices to ensure durable, livable, and safe construction and shall demonstrate acceptable workmanship reflecting journeyman quality of work of the various trades.³⁴
- 7.2 The strength and rigidity of the component parts and/or the integrated structure shall be determined by engineering analysis or by suitable load tests to simulate the actual loads and conditions of application that occur.³⁵

8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 LedgerLOK Ledger Board Fasteners comply with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:
 - 8.1.1 LedgerLOK Ledger Board Fasteners were evaluated to determine their ability to provide code complying attachment of deck ledger boards to the building structure.
 - 8.1.2 For conventionally framed buildings, the ledger is required to be attached to the band joist³⁶ in accordance with IBC Section 1604.8.3 or IRC Section R507.9,³⁷ as applicable.
 - 8.1.2.1 This evaluation provides fastening patterns for LedgerLOK Ledger Board Fasteners in a format similar to what is presented in IRC Table R507.9.1.3(1).³⁸
 - 8.1.2.2 Where a band joist is not used, as in some truss installations, an engineered design is required.
 - 8.1.2.3 Ultimate connection capacities and deflections of typical ledger board connections were match tested and evaluated pursuant to the provisions of the IBC and IRC.
- 8.2 Any building code, regulation, and/or accepted engineering evaluations (i.e., research reports, Duly Authenticated Reports, etc.) that are conducted for this Listing were performed by DrJ Engineering, LLC (DrJ), an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP/approved sources. DrJ is qualified³⁹ to practice product and regulatory compliance services within its scope of accreditation and engineering expertise, respectively.
- 8.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise, which is also its areas of professional engineering competence.
- 8.4 Any regulation specific issues not addressed in this section are outside the scope of this report.

9 Installation

- 9.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.
- 9.2 In the event of a conflict between the manufacturer installation instructions and this report, the more restrictive shall govern.
- 9.3 For applications outside the scope of this report, an engineered design is required.
- 9.4 *Installation Procedure*
 - 9.4.1 Choose 3 ³/₈" or 5" LedgerLOK Ledger Board Fasteners so that the threads fully engage the rim material and the fastener tip extends beyond the back face of the rim material when fully seated against the installed ledger.
 - 9.4.2 Using a high-torque, 1/2" variable-speed drill, 18V if cordless, drive the fasteners through the ledger and sheathing. Continue into the rim joist until the built-in washer head is drawn firm and flush to the ledger board. Do not overdrive.
 - 9.4.3 **Figure 2** shows a detail of LedgerLOK Ledger Board Fasteners deck connection, including minimum edge and end distances

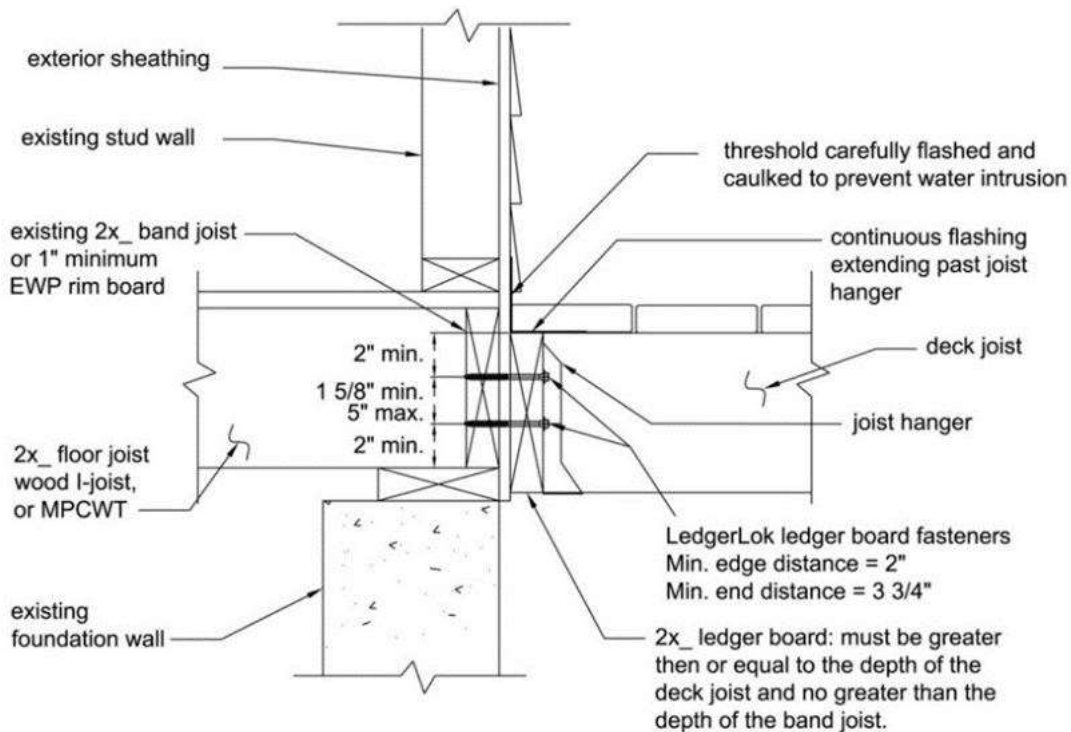


Figure 2. LedgerLOK Ledger Board Fasteners Deck Connection

- 9.4.4 Stagger the fasteners from the top to the bottom along the length of the ledger while maintaining the required edge and end distances.

10 Substantiating Data

- 10.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:
- 10.1.1 Deck ledger assembly testing in accordance with ASTM E72
 - 10.1.2 DCA 6, Prescriptive Residential Wood Deck Construction Guide; AF&PA; 2010
 - 10.1.3 FastenMaster Technical Bulletin; LedgerLOK Ledger Board Fastener; 2011
- 10.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDPs. Accuracy of external test data and resulting analysis is relied upon.
- 10.3 Where pertinent, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability, and safety.
- 10.4 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, or Duly Authenticated Reports from approved agencies and/or approved sources provided by the supplier. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ's engineering practice, as contained in this Duly Authenticated Report, may be dependent upon published design properties by others.



- 10.5 Testing and Engineering Analysis: The strength, rigidity, and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.⁴⁰
- 10.6 Where additional condition of use and/or regulatory compliance information is required, please search for LedgerLOK Ledger Board Fasteners on the DrJ Certification website.

11 Findings

- 11.1 As outlined in **Section 6**, LedgerLOK Ledger Board Fasteners have performance characteristics that were tested and/or meet applicable regulations and are suitable for use pursuant to its specified purpose.
- 11.2 When used and installed in accordance with this Duly Authenticated Report and the manufacturer installation instructions, LedgerLOK Ledger Board Fasteners shall be approved for the following applications:
- 11.2.1 FastenMaster LedgerLOK Ledger Board Fasteners are a suitable alternative to the requirements of the IBC Section 1604.8.3 and IRC Section R507.9.⁴¹
- 11.3 Unless exempt by state statute, when LedgerLOK Ledger Board Fasteners are to be used as a structural and/or building envelope component in the design of a specific building, the design shall be performed by an RDP.
- 11.4 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from FastenMaster.
- 11.5 IBC Section 104.2.3 (IRC Section R104.2.2 and IFC Section 104.2.3⁴² are similar) in pertinent part state:
- 104.2.3 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. 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.
- 11.6 **Approved:**⁴³ Building regulations require that the building official shall accept Duly Authenticated Reports.⁴⁴
- 11.6.1 An approved agency is “approved” when it is ANAB ISO/IEC 17065 accredited.
- 11.6.2 An approved source is “approved” when an RDP is properly licensed to transact engineering commerce.
- 11.6.3 Federal law, Title 18 US Code Section 242, requires that, where the alternative product, material, service, design, assembly, and/or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved. Denial without written reason deprives a protected right to free and fair competition in the marketplace.
- 11.7 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.
- 11.8 Through the IAF Multilateral Arrangement (MLA), this duly authenticated report can be used to obtain product approval in any jurisdiction or country because all ANAB ISO/IEC 17065 duly authenticated reports are equivalent.⁴⁵

12 Conditions of Use

- 12.1 Material properties shall not fall outside the boundaries defined in **Section 6**.
- 12.2 As defined in **Section 6**, where material and/or engineering mechanics properties are created for load resisting design purposes, the resistance to the applied load shall not exceed the ability of the defined properties to resist those loads using the principles of accepted engineering practice.
- 12.3 As listed herein, LedgerLOK Ledger Board Fasteners shall not:
- 12.3.1 Exceed **Table 2** for code compliance and the installation conditions considered.



- 12.4 When required by adopted legislation and enforced by the building official, also known as the authority having jurisdiction (AHJ) in which the project is to be constructed:
- 12.4.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.
 - 12.4.2 This report and the installation instructions shall be submitted at the time of permit application.
 - 12.4.3 This innovative product has an internal quality control program and a third-party quality assurance program.
 - 12.4.4 At a minimum, this innovative product shall be installed per **Section 9** of this report.
 - 12.4.5 The review of this report by the AHJ shall comply with IBC Section 104 and IBC Section 105.4.
 - 12.4.6 This innovative product has an internal quality control program and a third party quality assurance program in accordance with IBC Section 110, IBC Section 1703, and IRC Section R109.
 - 12.4.7 The application of this innovative product in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by IBC Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.
- 12.5 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, “the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new material or assemblies as provided for in Section 104.2.3,” all of IBC Section 104, and IBC Section 105.4.
- 12.6 Design loads shall be determined in accordance with the regulations adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner or RDP).
- 12.7 The actual design, suitability, and use of this report for any particular building, is the responsibility of the owner or the authorized agent of the owner.

13 Identification

- 13.1 The innovative product listed in **Section 1.1** is identified by a label on the board or packaging material bearing the manufacturer name, product name, this report number, and other information to confirm code compliance.
- 13.2 Additional technical information can be found at www.fastenmaster.com.

14 Review Schedule

- 14.1 This report is subject to periodic review and revision. For the latest version, visit www.drjcertification.org.
- 14.2 For information on the status of this report, please contact DrJ Certification.



Notes

For more information, visit drjcertification.org or call us at 608-310-6748.

2018 IBC Section 2304.10.5

2018 IBC Section 2304.10.5

Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of [TPI 1](#), the [NDS](#), [AISI S202](#), [US professional engineering law](#), [Canadian building code](#), [Canada professional engineering law](#), [Qualtim External Appendix A: Definitions/Commentary](#), [Qualtim External Appendix B: Project/Deliverables](#), [Qualtim External Appendix C: Intellectual Property and Trade Secrets](#), definitions created within Design Drawings and/or definitions within Reference Sheets. Beyond this, terms not defined shall have ordinarily accepted meanings as the context implies. Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702>

Alternative Materials, Design and Methods of Construction and Equipment: The provisions of any regulation code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by a regulation. Please review <https://www.justice.gov/atr/mission> and <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.2>:-:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests

The [design strengths](#) and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice.

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.1>:-:text=Conformance%20to%20Standards-
The%20design%20strengths%20and%20permissible%20stresses-of%20any%20structural

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>:-:text=the%20building%20official%20shall%20make%20or%20cause%20to%20be%20made%20C%20the%20necessary%20tests%20and%20investigations%20B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2>

https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency

https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source

<https://www.law.cornell.edu/uscode/text/18/1832> (b) Any organization that commits any offense described in subsection (a) shall be fined not more than the greater of \$5,000,000 or 3 times the value of the stolen trade secret to the organization, including expenses for research and design and other costs of reproducing the trade secret that the organization has thereby avoided. The federal government and each state have a public records act. To follow DTSA and comply state public records and trade secret legislation requires approval through ANAB ISO/IEC 17065 accredited certification bodies or approved sources. For more information, please review this website: [Intellectual Property and Trade Secrets](#).

<https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional> AND <https://apassociation.org/list-of-engineering-boards-in-each-state-archive/>

<https://www.cbiteest.com/accreditation/>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.1>:-:text=directed%20to%20enforce%20the%20provisions%20of%20this%20code

<https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3> AND <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#105.3.1>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>

<https://iaf.nu/en/about-iaf-mla/#>:-:text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%20C%20it%20is%20required%20to%20recognise%20certificates%20and%20validation%20and%20verification%20statements%20issued%20by%20conformity%20assessment%20bodies%20accredited%20by%20all%20other%20signatories%20of%20the%20IAF%20MLA%20C%20with%20the%20appropriate%20scope

True for all ANAB accredited product evaluation agencies and all International Trade Agreements.

<https://www.justice.gov/crt/deprivation-rights-under-color-law> AND <https://www.justice.gov/atr/mission>

Unless otherwise noted, the links referenced herein use un-amended versions of the [2024 International Code Council \(ICC\)](#) 2024 International Code Council (ICC) model codes as foundation references. Mississippi versions of the [IBC 2024](#) and the [IRC 2024](#) are un-amended. This material, product, design, service and/or method of construction also complies with the 2000-2012 versions of the referenced codes and the standards referenced therein. As pertinent to this technical and code compliance evaluation, CBI and/or DrJ staff have reviewed any state or local regulatory amendments to assure this report is in compliance.

See [Adoptions by Publisher](#) for the latest adoption of a non-amended or amended model code by the local jurisdiction. <https://up.codes/codes/general>

See [Adoptions by Publisher](#) for the latest adoption of a non-amended or amended model code by state. <https://up.codes/codes/general>

<https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3282/subpart-A/section-3282.14>

<https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280>

<https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2>(Listed%20or%20certified); <https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#listed> AND <https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#labeled>

2015 IRC Section R507.2

2015 IRC Table R507.2

2015 IRC Table R507.2

2015 IRC Table R507.2

2015 IRC Table R507.2

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4>



- 34 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=All%20construction%20methods%20shall%20be%20in%20conformance%20with%20accepted%20engineering%20practices%20to%20insure%20durable%2C%20livable%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades>
- 35 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=The%20strength%20and%20rigidity%20of%20the%20component%20parts%20and/or%20the%20integrated%20structure%20shall%20be%20determined%20by%20engineering%20analysis%20or%20by%20suitable%20load%20tests%20to%20simulate%20the%20actual%20loads%20and%20conditions%20of%20application%20that%20occur>
- 36 The term “band joist” is used throughout this report. Other regionally used terms synonymous with band joist include rim board, band board, header board and header joist.
- 37 2015 IRC Section R507.2
- 38 2015 IRC Table R507.2
- 39 Qualification is performed by a legislatively defined Accreditation Body. ANSI National Accreditation Board (ANAB) is the largest independent accreditation body in North America and provides services in more than 75 countries. DrJ is an ANAB accredited product certification body.
- 40 See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition.
- 41 2015 IRC Section R507.2
- 42 2018: <https://up.codes/viewer/wyoming/ifc-2018/chapter/1/scope-and-administration#104.9> AND 2021: <https://up.codes/viewer/wyoming/ibc-2021/chapter/1/scope-and-administration#104.11>
- 43 Approved is an adjective that modifies the noun after it. For example, Approved Agency means that the Agency is accepted officially as being suitable in a particular situation. This example conforms to IBC/IRC/IFC Section 201.4 (<https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#201.4>) where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.
- 44 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>
- 45 Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.