

Listing

A Duly Authenticated Report from an Approved Agency

Report No: 2301-01



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Performance Characteristics of FastenMaster® ICON™ ScrewJoist

Trade Secret Report Holder:

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CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

Section: 06 02 00 - Design Information

Section: 06 11 00 - Wood Framing

Section: 06 17 00 - Shop-Fabricated Structural Wood

Section: 06 17 33 - Wood I-joists

Section: 06 17 36 - Metal-Web Wood Joists

1 Innovative Product Evaluated¹

1.1 ICON ScrewJoist

2 Product Description and Materials

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

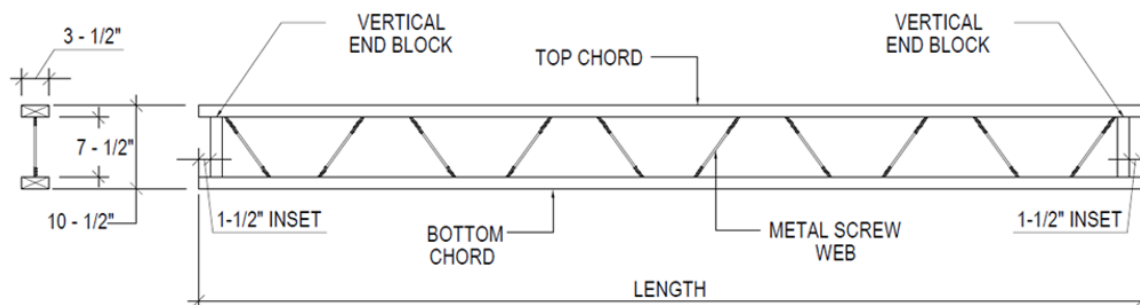


Figure 1. ICON ScrewJoist Schematic



2.2 ICON ScrewJoist is comprised of the components described in **Table 1**.

Table 1. ICON ScrewJoist Description¹

Component	Description
Top Chord	2 x 4 Southern Pine (SP), Dense Select Structural (DSS), Kiln Dried After Treatment (KDAT), Pressure Treated (PT) Lumber
Webs	Heat Treated, Carbon Steel, Double-Threaded Wood Screws
Bottom Chord	2 x 4 Southern Pine (SP), Dense Select Structural (DSS), Kiln Dried After Treatment (KDAT), Pressure Treated (PT) Lumber
1. Overall joist depth – Nominal 10 ³ / ₈ " deep.	

2.3 As needed, review material properties for design in **Section 6**.

3 Definitions²

- 3.1 New Materials³ 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.⁴ The design strength and permissible stresses shall be established by tests⁵ and/or engineering analysis.⁶
- 3.2 Duly authenticated reports⁷ and research reports⁸ are test reports and related engineering evaluations that are written by an approved agency⁹ and/or an approved source.¹⁰
- 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).¹¹
- 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.¹²
- 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 ANAB¹³ ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall enforce¹⁴ 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 writing¹⁵ 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.¹⁶
- 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.¹⁷ Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,¹⁸ 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.¹⁹

4 Applicable Standards for the Listing²⁰

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, but is not limited to, the following featured local jurisdictions: 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, St. Louis County, Texas Department of Insurance, and Wichita.²¹
- 4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured states: California, Florida, New Jersey, Oregon, New York, Texas, Washington, and Wisconsin.²²
- 4.1.3 Approved by the Code of Federal Regulations Manufactured Home Construction: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14²³ and Part 3280²⁴ 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 *ASTM E73-13: Standard Practice for Static Load Testing of Truss Assemblies*

5 Listed²⁵

- 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 an 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 ICON ScrewJoist with a cantilever is as shown in **Figure 2**, and maximum allowable joist spans with a cantilever are provided in **Table 2**.

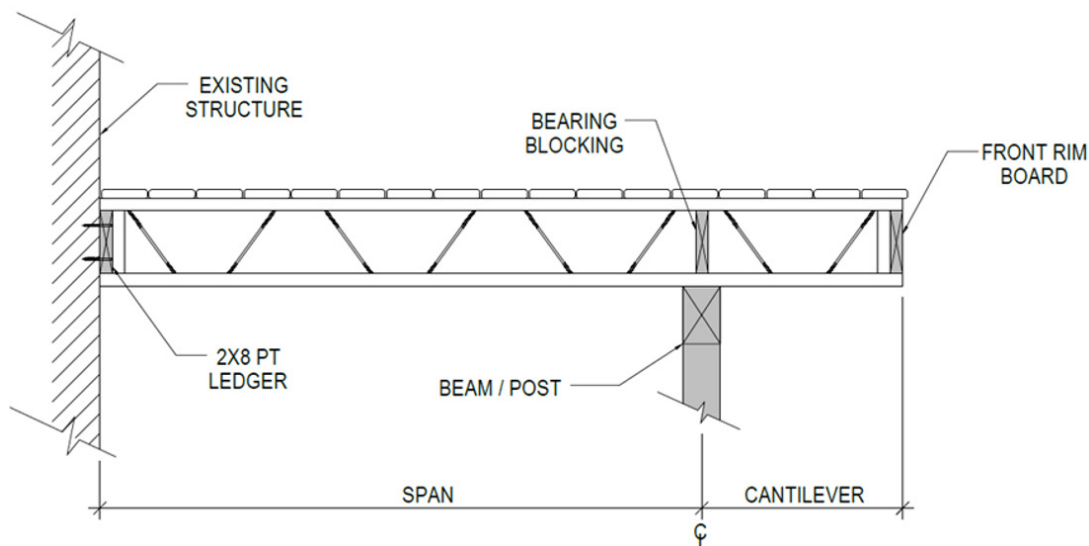


Figure 2. ICON ScrewJoist with a 2' Cantilever



Table 2. Maximum Allowable Joist Span for ICON ScrewJoist with Cantilever¹ (ft.)

Live/Dead Load (psf)	16" o.c. Joists		12" o.c. Joists	
	Maximum Joist Span ²	Maximum Joist Length ³	Maximum Joist Span ²	Maximum Joist Length ³
40 + 10	14	16	14	16
50 + 10	12	14	14	16
60 + 10	12	14	14	16
70 + 10	10	12	12	14
80 + 10	8	10	12	14
90 + 10	8	10	10	12
100 + 10	8	10	10	12

SI: 1 psf = 0.0479 kPa, 1 ft = 0.305 m

1. Assumes L/360 deflection limit and a maximum 2' Cantilever.
2. Max Joist Span refers to distance between ledger and bearing ("Span" in Figure 2).
3. Max Joist Length refers to overall joist length including cantilever up to 2' ("Length" in Figure 1).

6.2 The allowable load table for the ICON ScrewJoist with a cantilever is shown in **Table 3**.

Table 3. Maximum Uniform load on ICON ScrewJoist with up to 2' Cantilever^{1,4,5,6}

Maximum Joist Span ² (ft.)	Maximum Joist Length ³ (ft.)	Maximum Uniform Load on ICON ScrewJoist (psf)			
		16" Joist Spacing		12" Joist Spacing	
		L/360	L/480	L/360	L/480
8	10	135	105	180	145
10	12	85	65	110	85
12	14	70	55	90	70
14	16	55	45	75	60

SI: 1 psf = 0.0479 kPa, 1 ft = 0.305 m

1. Assumes dead load of 10 psf.
2. Maximum Joist Span refers to distance between ledger and bearing ("Span" in Figure 2).
3. Maximum Joist Length refers to overall joist length including cantilever up to 2' max. ("Length" in Figure 1).
4. Where intermediate spans are used, limit the uniform load to next longer joist shown in table.
5. Uniform loads assume a 220 lb. concentrated load at the end of cantilever.
6. Linear interpolation is not permitted.

6.3 ICON ScrewJoist without a 2' cantilever is as shown in **Figure 3**.

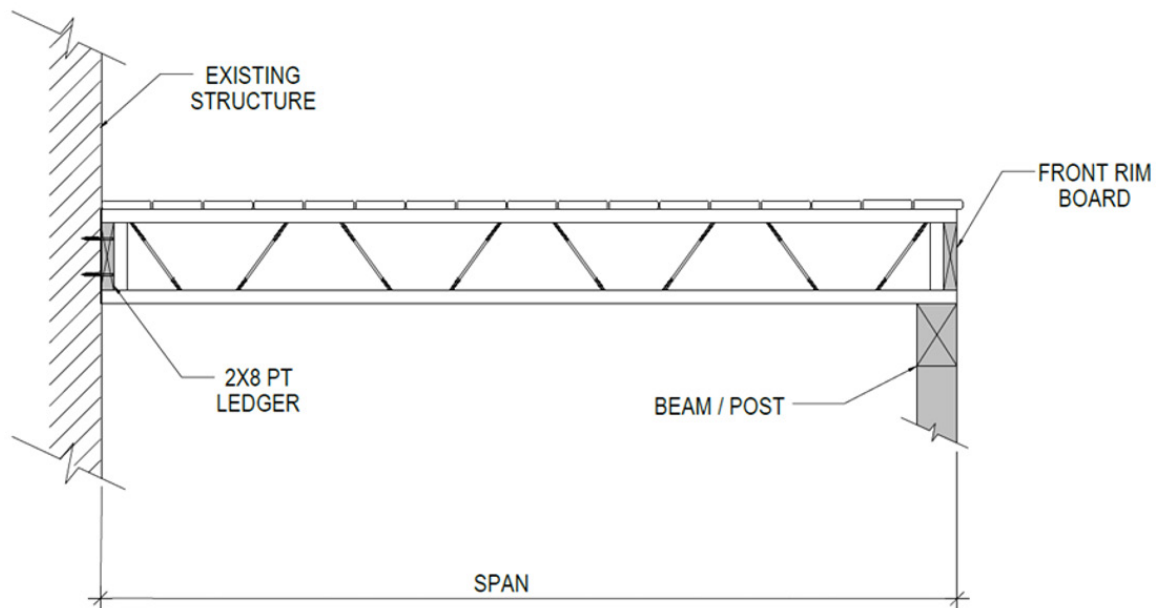


Figure 3. ICON ScrewJoist Without Cantilever

6.4 The allowable joist span table for the ICON ScrewJoist without a cantilever is as shown in **Table 4**.

Table 4. Maximum Allowable Joist Span for ICON ScrewJoist (ft.)¹

Live / Dead Load (psf)	Joist Spacing	
	16" o.c.	12" o.c.
40 + 10	12	12
50 + 10	12	12
60 + 10	10	12
70 + 10	8	12
80 + 10	8	10
90 + 10	8	10
100 + 10	8	8
SI: 1 psf = 0.0479 kPa, 1 ft = 0.305 m 1. Assumes L/360 deflection limit and no cantilever.		

6.5 The allowable load table for the ICON ScrewJoist without a cantilever is shown in **Table 5**.

Table 5. Span Tables for ICON ScrewJoist (No Cantilever)^{1,4,5,6}

Maximum Joist Span ² (ft.)	Maximum Joist Length ³ (ft.)	Maximum Uniform Load on ScrewJoist (psf)			
		16" Joist Spacing		12" Joist Spacing	
		L/360	L/480	L/360	L/480
6	6	150	120	200	165
8	8	120	90	165	130
10	10	75	55	100	80
12	12	60	45	80	65

SI: 1 psf = 0.0479 kPa, 1 ft = 0.305 m

- Maximum Joist Span refers to distance between ledger and bearing ("Span" in **Figure 2**).
- Maximum Joist Length refers to overall joist length including cantilever up to 2' ("Length" in **Figure 1**).
- ScrewJoist length limited to 12 feet.
- Where intermediate lengths are used. Limit the uniform load to the next longer joist shown in the table.
- Linear interpolation is not permitted.
- Maximum load shall include both the live and dead loads.

6.6 The bearing design value for the ICON ScrewJoist is as listed in **Table 6**.

Table 6. Maximum Bearing of ICON ScrewJoist^{1,2}

Product	Maximum Top Chord Bearing (lb)
ICON ScrewJoist	1,785

SI: 1 lb = 4.45 N

- Top Chord Bearing value is based on the ledger board detail per **Figure 4** through **Figure 9**. ICON ScrewJoist must be attached to ledger with a minimum of two (2) #9 x 3 1/2" wood screws.
- Maximum distance from inside edge of bearing to first screw is 3".

6.7 Bearing details for various conditions are as shown in **Figure 4** through **Figure 9**.

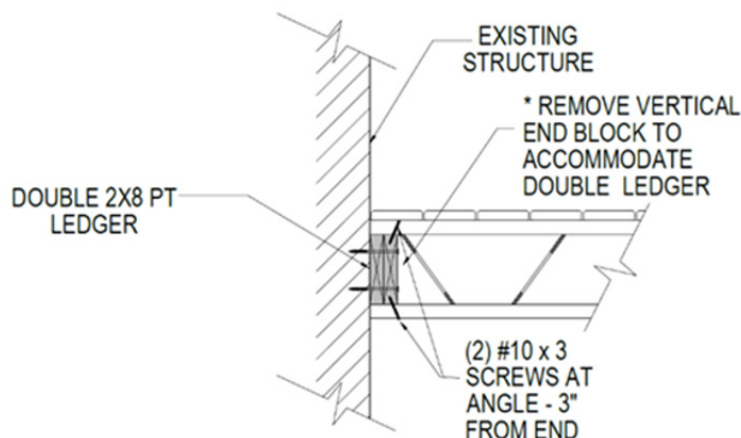


Figure 4. Top Chord Bearing at Double Ledger

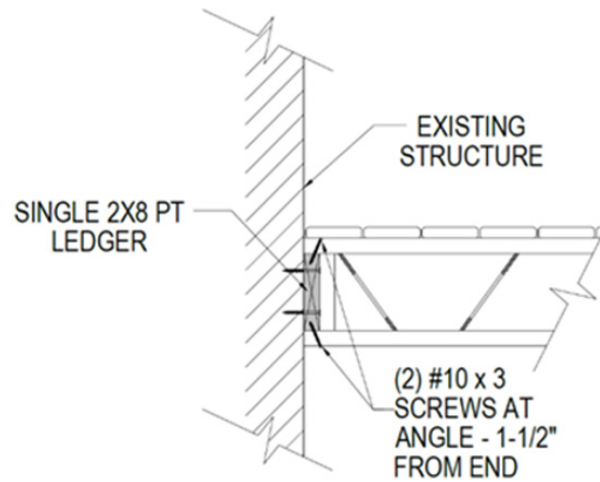


Figure 5. Top Chord Bearing at Single Ledger

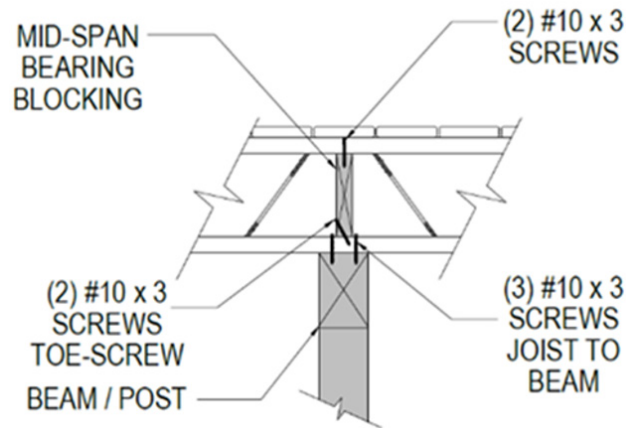


Figure 6. Dropped Beam at Midspan or at Cantilever

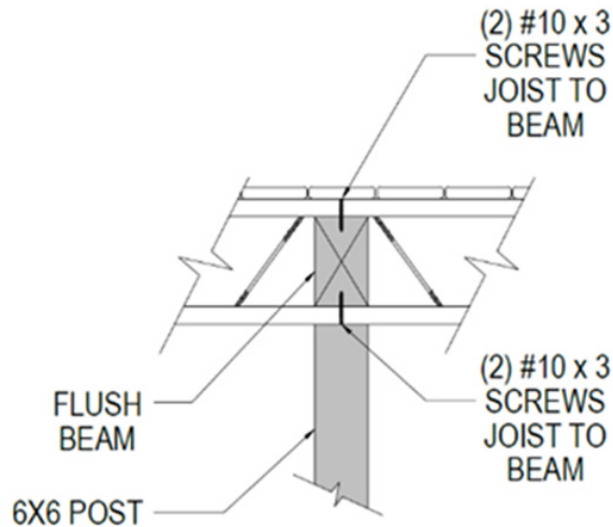


Figure 7. Flush Beam at Midspan or at Cantilever

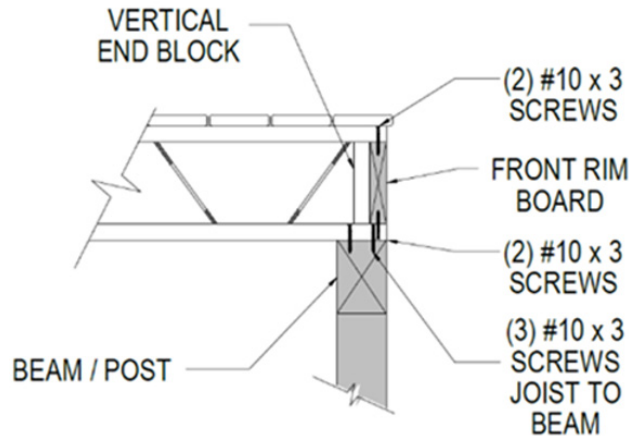


Figure 8. Dropped Beam at End of Span

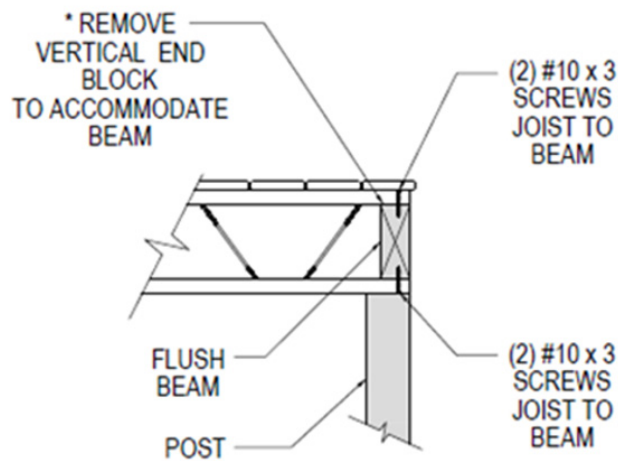


Figure 9. Flush Beam at End of Span

- 6.8 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 Performance²⁶

- 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.²⁷
- 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.²⁸



8 Installation

- 8.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.
- 8.2 In the event of a conflict between the manufacturer installation instructions and this report, contact the manufacturer for counsel on the proper installation method.

9 Substantiating Data

- 9.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:
 - 9.1.1 Static load testing of truss assemblies in accordance with ASTM E73
 - 9.1.2 Joist span calculations per configuration by DrJ Engineering
 - 9.1.3 Allowable load calculations per configuration by DrJ Engineering
- 9.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDP. Accuracy of external test data and resulting analysis is relied upon.
- 9.3 Where applicable, 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.
- 9.4 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.
- 9.5 *Testing and Engineering Analysis*
 - 9.5.1 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.²⁹
- 9.6 Where additional condition of use and/or regulatory compliance information is required, please search for ICON ScrewJoist on the DrJ Certification website.

10 Findings

- 10.1 As outlined in **Section 6**, ICON ScrewJoist has performance characteristics that were tested and/or meet applicable regulations. In addition, they are suitable for use pursuant to its specified purpose.
- 10.2 When used and installed in accordance with this duly authenticated report and the manufacturer installation instructions, ICON ScrewJoist shall be approved for the following applications:
 - 10.2.1 Use as joists in flooring applications including interior floors and exterior deck construction.
- 10.3 Unless exempt by state statute, when ICON ScrewJoist is 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.
- 10.4 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from FastenMaster.



10.5 IBC Section 104.2.3³⁰ (IRC Section R104.2.2³¹ and IFC Section 104.2.3³² 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, provided that any such alternative is not specifically prohibited by this code and has been approved.

10.6 **Approved:**³³ Building regulations require that the building official shall accept duly authenticated reports.³⁴

10.6.1 An approved agency is “*approved*” when it is ANAB ISO/IEC 17065 accredited.

10.6.2 An approved source is “*approved*” when an RDP is properly licensed to transact engineering commerce.

10.6.3 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.

10.7 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.

10.8 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.³⁵

11 Conditions of Use

11.1 Material properties shall not fall outside the boundaries defined in **Section 6**.

11.2 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.

11.3 As listed herein, ICON ScrewJoist shall not be used:

11.3.1 In spans longer than those listed in **Table 2** and **Table 3**.

11.4 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:

11.4.1 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.

11.4.2 This report and the installation instructions shall be submitted at the time of permit application.

11.4.3 This innovative product has an internal quality control program and a third-party quality assurance program.

11.4.4 At a minimum, this innovative product shall be installed per **Section 8**.

11.4.5 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.

11.4.6 This innovative product has an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.7.2, IBC Section 110.4, IBC Section 1703, IRC Section R104.7.2, and IRC Section R109.2.

11.4.7 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.



- 11.5 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *“the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.2.3”*, all of IBC Section 104, and IBC Section 105.3.
- 11.6 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).
- 11.7 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.

12 Identification

- 12.1 ICON ScrewJoist, as 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.
- 12.2 Additional technical information can be found at www.fastenmaster.com/technical-documents/icon-screw-joist.

13 Review Schedule

- 13.1 This report is subject to periodic review and revision. For the latest version, visit www.drjcertification.org.
- 13.2 For information on the status of this report, please contact [DrJ Certification](#).



Notes

- 1 For more information, visit drjcertification.org or call us at 608-310-6748.
- 2 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.
- 3 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702>
- 4 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>
- 5 <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
- 6 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
- 7 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>~:~text=the%20building%20official%20shall%20make%20a%20cause%20to%20be%20made%20C%20the%20necessary%20tests%20and%20investigations%3B%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.
- 8 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2>
- 9 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency
- 10 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source
- 11 <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.
- 12 <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/>
- 13 <https://www.cbiteest.com/accreditation/>
- 14 <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.1>~:~text=directed%20to%20enforce%20the%20provisions%20of%20this%20code
- 15 <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>
- 16 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>
- 17 <https://iaf.nu/en/about-iaf-mla/#>~:~text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%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%2C%20with%20the%20appropriate%20scope
- 18 True for all ANAB accredited product evaluation agencies and all International Trade Agreements.
- 19 <https://www.justice.gov/crt/deprivation-rights-under-color-law> AND <https://www.justice.gov/atr/mission>
- 20 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.
- 21 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>
- 22 See Adoptions by Publisher for the latest adoption of a non-amended or amended model code by state. <https://up.codes/codes/general>
- 23 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3282/subpart-A/section-3282.14>
- 24 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280>
- 25 <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>
- 26 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4>
- 27 <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%20livable%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades
- 28 <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
- 29 See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition: <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280>



30 [2021 IBC Section 104.11](#)

31 [2021 IRC Section R104.11](#)

32 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>

33 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.

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

35 Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.