



Listing and Technical Evaluation Report™

Report No: 2206-01

Issue Date: September 9, 2022

Revision Date: July 16, 2025

Subject to Renewal: July 16, 2025

TrussBRACE™ Roof Truss Support

Trade Secret Report Holder:

OMG®, Inc. dba FastenMaster®

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CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

Section: 06 00 90 - Wood and Plastic Fastenings Section: 06 05 23 - Wood, Plastic, and Composite Fastenings Section: 06 11 00 - Wood Framing

1 Innovative Product Evaluated¹

1.1 TrussBRACE™

2 Product Description and Materials

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



Figure 1. FastenMaster TrussBRACE Installed on Truss Top Chords







- 2.2 TrussBRACE is a hinged Y-shaped bracket with the following properties:
 - 2.2.1 Steel Properties:
 - 2.2.1.1 20-gauge Steel (0.0375")
 - 2.2.1.2 Galvanized coating
 - 2.2.2 Dimensions:
 - 2.2.2.1 1" x 1⁵/₈" L-shaped channel with flat tabs where member is attached to the truss
 - 2.2.2.1.1 Length:
 - 2.2.2.1.1.1 25¹/₂"
 - 2.2.2.1.2 Width of TrussBRACE with Diagonal Brace Extended:
 - 2.2.2.1.2.1 173/4"
 - 2.2.2.1.3 Hinge Location:
 - 2.2.2.1.3.1 16¹/₄"
 - 2.2.2.2 Fasteners:
 - 2.2.2.2.1 Three (3) 10d nails (0.148" x 1¹/₂")
- 2.3 As needed, review material properties for design in **Section 6** and to regulatory evaluation in **Section 8**.

3 Definitions

- 3.1 New Materials² 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.³ The design strengths and permissible stresses shall be established by tests⁴ and/or engineering analysis.⁵
- 3.2 <u>Duly authenticated reports</u>⁶ and <u>research reports</u>⁷ are test reports and related engineering evaluations, which are written by an approved agency⁸ and/or an approved source.⁹
 - 3.2.1 These reports contain intellectual property and/or trade secrets, which are protected by the <u>Defend Trade</u> Secrets Act (DTSA).¹⁰
- 3.3 An <u>approved agency</u> is "approved" when it is <u>ANAB ISO/IEC 17065 accredited</u>. DrJ Engineering, LLC (DrJ) is listed in the ANAB directory.
- 3.4 An <u>approved source</u> is "approved" when a professional engineer (i.e., <u>Registered Design Professional</u>) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.¹¹
- 3.5 Testing and/or inspections conducted for this <u>duly authenticated report</u> were performed by an <u>ISO/IEC 17025</u> accredited testing laboratory, an <u>ISO/IEC 17020</u> accredited inspection body and/or a licensed <u>Registered</u> Design Professional (RDP).
 - 3.5.1 The Center for Building Innovation (CBI) is ANAB 12 ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall <u>enforce</u>¹³ 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 writing¹⁴ stating the nonconformance and the path to its cure.
- 3.7 The regulatory authority shall accept <u>duly authenticated reports</u> from an <u>approved agency</u> and/or an <u>approved source</u> 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.¹⁵







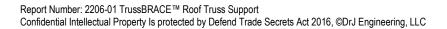
- 3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory where recognition of certificates, validation and verification statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope, shall be approved. Therefore, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent. The signature of the IAF MLA with the appropriate scope, shall be approved. Therefore, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent.
- 3.9 Approval equity is a fundamental commercial and legal principle. 18

4 Applicable Standards for the Listing; Regulations for the Regulatory Evaluation 19

- 4.1 Standards
 - 4.1.1 AISI S100: North American Specification for the Design of Cold-Formed Steel Structural Members
 - 4.1.2 ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Trusses
 - 4.1.3 ASTM D1761: Standard Test Method for Mechanical Fasteners in Wood and Wood-Based Materials
 - 4.1.4 Building Component Safety Information (BCSI) Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses
- 4.2 Regulations
 - 4.2.1 IBC 15, 18, 21: International Building Code®
 - 4.2.2 IRC 15, 18, 21: International Residential Code®
 - 4.2.3 IECC 15, 18, 21: International Energy Conservation Code®
 - 4.2.4 CBC—19, 22: California Building Code²⁰ (Title 24, Part 2)
 - 4.2.5 CRC—19, 22: California Residential Code²⁰ (Title 24, Part 2.5)
 - 4.2.6 LABC—17, 20, 22: Los Angeles Building Code²¹
 - 4.2.7 LARC—17, 20, 22: Los Angeles Residential Code²¹
 - 4.2.8 FBC-B—20, 23: Florida Building Code²² Building
 - 4.2.9 FBC-R—20, 23: Florida Building Code²² Residential

5 Listed²³

5.1 Equipment, materials, products or services included in a List published by a <u>nationally recognized testing laboratory</u> (i.e., CBI), <u>approved agency</u> (i.e., CBI and DrJ), and/or <u>approved source</u> (i.e., DrJ) or other organization 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 TrussBRACE can be incorporated into the temporary lateral and diagonal bracing to prevent rotation and provide lateral stability for buildings per ANSI/TPI 1 Section 2.3.1.6, BCSI-B1 and BCSI-B2, as pertinent.
- 6.2 TrussBRACE can be incorporated into the permanent lateral and diagonal bracing to prevent rotation and provide lateral stability for buildings per <u>IBC Section 2303.4</u>, <u>IRC Section R802.10.3</u>, ANSI/TPI 1 Section 2.3.3, BCSI-B1 and BCSI-B3, as pertinent.
- 6.3 Tension and compression values for the TrussBRACE are specified in **Table 1**.

Table 1. TrussBRACE Design Values^{1,2,3,4}

Load Direction	Maximum Allowable Load⁵
Tension	140
Compression	420

SI: 1 in = 25.4 mm, 1 lb = 4.45 N

- 1. TrussBRACE can be incorporated into the permanent truss lateral and diagonal bracing to prevent rotation and provide lateral stability for buildings per ANSI/TPI 1 section 2.3.3, BCSI B1 and B3 as pertinent, and when installed as described in **Section 9**.
- 2. Design of TrussBRACE bracing plans shall comply with IBC Section 2303.4.1.2.
- 3. Minimum of three (3) 10d (11/2" x 0.148") nails
- 4. Minimum specific gravity of truss is 0.42.
- 5. No further load increases are allowed.
- 6.4 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 Performance²⁴

- 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.²⁵
- 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.²⁶

8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 TrussBRACE complies with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:
 - 8.1.1 Tension and compression strength in accordance with ASTM D1761
- 8.2 TrussBRACE is used to provide temporary lateral and diagonal bracing along top chord and webs of wood trusses during installation.
 - 8.2.1 TrussBRACE temporary bracing may be left in place to form part of the permanent bracing that is required by IBC Section 2303.4, IRC Section R802.10.3 and ANSI/TPI Section 2.3.3.
- 8.3 Any building code, regulation and/or accepted engineering evaluations (i.e., research reports, <u>duly</u> <u>authenticated reports</u>, etc.) that are conducted for this Listing were performed by DrJ Engineering, LLC (DrJ), an <u>ISO/IEC 17065 accredited certification body</u> and a professional engineering company operated by <u>RDP/approved sources</u>. DrJ is qualified²⁷ to practice product and regulatory compliance services within its scope of accreditation and engineering expertise, respectively.





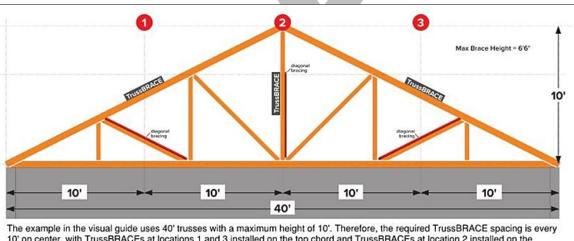
- 8.4 Engineering evaluations are conducted with DrJ's ANAB <u>accredited ICS code scope</u> of expertise, which are also its areas of professional engineering competence.
- 8.5 Any regulation specific issues not addressed in this section are outside the scope of this report.

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 TrussBRACE shall be installed on the top chords and webs along the trusses at the spacing shown in **Table 2** and **Figure 2**.

Table 2. TrussBRACE Spacing Based on Truss Span

Truss Span	Maximum On Center Spacing
Up to 30'	12'
30' to 45'	10'
45' to 60'	8'



10' on center, with TrussBRACEs at locations 1 and 3 installed on the top chord and TrussBRACEs at location 2 installed on the webs, as illustrated above. The diagonal bracing shown is added in STEP 2. In locations 1 and 3, it is placed on the web members below the TrussBRACEs. In location 2, it is placed on either side of the web member. Diagonal bracing may be placed over top of the TrussBRACEs.

Figure 2. Example of TrussBRACE Location on 40' Truss

- 9.4 At any point in the installation process, when top chord can no longer be conveniently reached (5½ to 6½ feet), apply TrussBRACE to the next web member that is within the spacing listed in **Table 2**, or otherwise requires lateral restraint per the Truss Design Drawing (TDD).
 - 9.4.1 See **Figure 2** for an example.
 - 9.4.2 Keep placing TrussBRACE on the webs until the top chord becomes within reach $(5^{1}/_{2} \text{ to } 6^{1}/_{2} \text{ feet})$ and finish applying the TrussBRACE along the top chord per **Table 2**.





9.5 TrussBRACE is applied to the truss with the lateral portion spanning between truss top chords or truss web members, with the diagonal leg swinging down below the lateral part of the brace to connect back to the top chord or web as shown in **Figure 3**.



TRUSSBrace ™ Diagonal Leg

Figure 3. TrussBRACE Connection to Truss Top Chord

- 9.6 Six Step Installation Procedure
 - 9.6.1 **Step 1:** Determine TrussBRACE spacing based on truss span shown in **Table 2**.
 - 9.6.2 **Step 2:** Set the first three trusses with TrussBRACE to create a stable foundation for the structure (see **Figure 4**).
 - 9.6.2.1 At a minimum, use three (3) 10d common $(1^{1}/_{2}" \times 0.148")$ nails; one at each end of the lateral leg and the third on the diagonal leg.
 - 9.6.2.2 Drive nails completely so the TrussBRACE is tight on the truss
 - 9.6.2.3 Apply diagonal bracing to webs per BCSI after trusses are set and TrussBRACEs are installed.

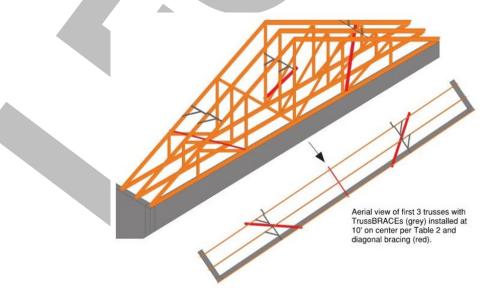


Figure 4. Installation Step 2: Temporary Bracing of First Three Trusses





9.6.3 **Step 3:** Working from the bottom chords, set trusses 4 through 15 in line with the TrussBRACE placed on the first 3 trusses (see **Figure 5**).

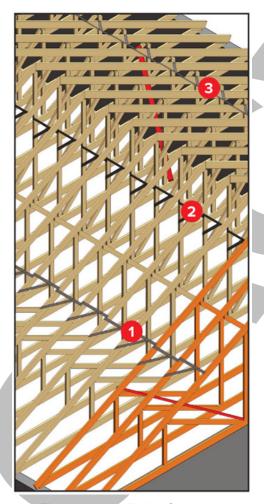


Figure 5. Installation Steps 1-5

- 9.6.4 **Step 4:** Apply web member diagonal bracing per BCSI, Figure B2-34 after Truss 15 has been set. Web member diagonal bracing is shown in red in **Figure 5** and **Figure 6**.
 - 9.6.4.1 If fewer than 30 trusses are being used, apply diagonal bracing at midway point in truss installation. (i.e., if setting 20 trusses, apply diagonal bracing after truss 10 is set).
 - 9.6.4.2 Never exceed 20' between diagonal braces per BCSI, Figure B2-34.
- 9.6.5 **Step 5:** Apply steps 3 and 4 until the entire roof system is set.





9.6.6 **Step 6:** Apply structural sheathing to the top chord of all the trusses directly of the TrussBRACE as shown in **Figure 6**.

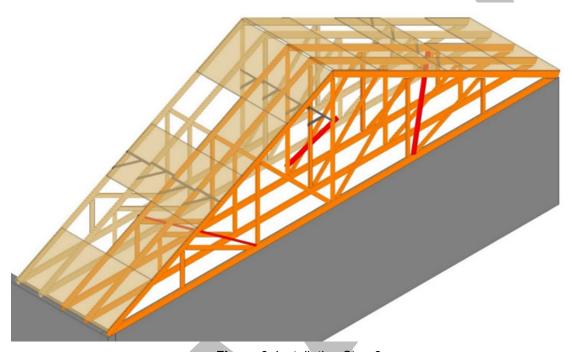


Figure 6. Installation Step 6

- 9.7 For additional information on temporary bracing, refer to BCSI-B2.
- 9.8 For additional information on permanent bracing, refer to BCSI-B3.

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 Tension and compression strength in accordance with ASTM D1761
- 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 RDPs. Accuracy of external test data and resulting analysis is relied upon.
- 10.3 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.
- 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 <u>duly authenticated reports</u> from <u>approved agencies</u> and/or <u>approved sources</u> 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 <u>duly</u> 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.²⁸
- 10.6 Where additional condition of use and/or regulatory compliance information is required, please search for TrussBRACE on the DrJ Certification website.

11 Findings

- 11.1 As outlined in **Section 6**, TrussBRACE has performance characteristics that were tested and/or meet applicable regulations and is suitable for use pursuant to its specified purpose.
- 11.2 When used and installed in accordance with this <u>duly authenticated report</u> and the manufacturer installation instructions, TrussBRACE shall be approved for the following applications:
 - 11.2.1 Temporary lateral and diagonal bracing to prevent rotation and provide lateral stability for buildings per BCSI B1 and B2, as appropriate.
 - 11.2.2 Permanent lateral and diagonal bracing to prevent rotation and provide lateral stability for buildings per <u>IBC Section 2303.4</u>, <u>IRC Section R802.10.3</u>, ANSI/TPI 1 Section 2.3.3, BCSI-B1 and BCSI-B3, as applicable.
 - 11.2.3 Where TrussBRACE temporary bracing will be used a part of the permanent bracing system, TrussBRACE must be placed at the Permanent Individual Truss Member Restraint (PITMR) locations as shown on the truss design drawings in accordance with IBC Section 2303.4.1.2 and IRC Section R802.10.3.
- 11.3 Unless exempt by state statute, when TrussBRACE 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.
- 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 104.11 (IRC Section R104.11 and IFC Section 104.10²⁹ are similar) in pertinent part 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. 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: 30 Building regulations require that the building official shall accept duly authenticated reports. 31
 - 11.6.1 An approved agency is "approved" when it is ANAB ISO/IEC 17065 accredited.
 - 11.6.2 An <u>approved source</u> is "approved" when an <u>RDP</u> is properly licensed to transact engineering commerce.
 - 11.6.3 Federal law, <u>Title 18 US Code Section 242</u>, 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 <u>RDP</u>s and is an <u>ANAB-Accredited Product Certification Body Accreditation #1131</u>.
- 11.8 Through the <u>IAF Multilateral Agreements</u> (MLA), this <u>duly authenticated report</u> can be used to obtain product approval in any <u>jurisdiction</u> or <u>country</u> because all ANAB ISO/IEC 17065 <u>duly authenticated reports</u> are equivalent.³²





- 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, TrussBRACE shall not be used:
 - 12.3.1 On top of knots or other lumber defects.
 - 12.3.2 If bent, kinked or otherwise damaged.
- 12.4 Do not walk on TrussBRACE or use to support body weight.
- 12.5 Do not remove TrussBRACE for re-use.
- 12.6 TrussBRACE is limited to use with dry service conditions and untreated lumber.
- 12.7 Install TrussBRACE at right angles to the plane of the truss member.
- 12.8 Where TrussBRACE temporary bracing will be used a part of the permanent bracing, TrussBRACE must be placed at the permanent web buckling bracing locations as shown on the truss design drawings in accordance with IBC Section 2303.4.
- 12.9 TrussBRACE may only be installed on trusses spaced 24" on center and up to 60' in length.
- 12.10 Trusses that span over 60' require complex temporary installation of restraint/diagonal bracing. Consult a professional engineer.
- 12.11 When required by adopted legislation and enforced by the <u>building official</u>, also known as the authority having jurisdiction (AHJ) in which the project is to be constructed:
 - 12.11.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an <u>approved source</u>, shall be approved when signed and sealed.
 - 12.11.2 This report and the installation instructions shall be submitted at the time of permit application.
 - 12.11.3 This innovative product has an internal quality control program and a third-party quality assurance program.
 - 12.11.4 At a minimum, this innovative product shall be installed per Section 9 of this report.
 - 12.11.5 The review of this report by the AHJ shall comply with IBC Section 104 and IBC Section 105.4.
 - 12.11.6 This innovative product has an internal quality control program and a third party quality assurance program in accordance with BC Section 104.4, BC Section 110.4, BC Section 180.4, <a href="BC Section 180.4, BC Section 180.4, <a href="BC Section 180.4</a
 - 12.11.7 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 R109.2 and any other regulatory requirements that may apply.
- 12.12 The approval of this report by the AHJ shall comply with <u>IBC Section 1707.1</u>, where legislation states in part, "the <u>building official</u> shall accept duly authenticated reports from <u>approved agencies</u> in respect to the quality and manner of <u>use</u> of new material or assemblies as provided for in <u>Section 104.11</u>," all of <u>IBC Section 104</u>, and <u>IBC Section 105.4</u>.
- 12.13 <u>Design loads</u> shall be determined in accordance with the regulations adopted by the <u>jurisdiction</u> in which the project is to be constructed and/or by the building designer (i.e., <u>owner</u> or <u>RDP</u>).
- 12.14 The actual design, suitability, and use of this report for any particular building, is the responsibility of the <u>owner</u> 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 dricertification.org.
- 14.2 For information on the status of this report, please contact <u>DrJ Certification</u>.

15 Approved for Use Pursuant to U.S. and International Legislation Defined in Appendix A

15.1 TrussBRACE is included in this report published by an approved agency that is concerned with evaluation of products or services, maintains periodic inspection of the production of listed materials or periodic evaluation of services. This report states either that the material, product or service meets recognized standards or has been tested and found suitable for a specified purpose. This report meets the legislative intent and definition of being acceptable to the AHJ.







Appendix A

1 Legislation that Authorizes AHJ Approval

- 1.1 **Fair Competition**: <u>State legislatures</u> have adopted Federal regulations for the examination and approval of building code referenced and alternative products, materials, designs, services, assemblies and/or methods of construction that:
 - 1.1.1 Advance innovation
 - 1.1.2 Promote competition so all businesses have the opportunity to compete on price and quality in an open market on a level playing field unhampered by anticompetitive constraints
 - 1.1.3 Benefit consumers through lower prices, better quality, and greater choice
- 1.2 **Adopted Legislation**: The following local, state and federal regulations affirmatively authorize this innovative product to be approved by AHJs, delegates of building departments and/or delegates of an agency of the federal government:
 - 1.2.1 Interstate commerce is governed by the <u>Federal Department of Justice</u> to encourage the use of innovative products, materials, designs, services, assemblies, and/or methods of construction. The goal is to "protect economic freedom and opportunity by promoting free and fair competition in the marketplace."
 - 1.2.2 <u>Title 18 US Code Section 242</u> affirms and regulates the right of individuals and businesses to freely and fairly have new products, materials, designs, services, assemblies and/or methods of construction approved for use in commerce. Disapproval of alternatives shall be based upon non-conformance with respect to specific provisions of adopted legislation and shall be provided in writing <u>stating the reasons</u> why the alternative was not approved, with reference to the specific legislation violated.
 - 1.2.3 The <u>federal government</u> and each state have a <u>public records act</u>. In addition, each state also has legislation that mimics the federal <u>Defend Trade Secrets Act 2016</u> (DTSA),³³ where providing test reports, engineering analysis and/or other related IP/TS is subject to <u>prison of not more than ten years</u>³⁴ and/or a \$5,000,000 fine or 3 times the value of 35 the Intellectual Property (IP) and Trade Secrets (TS).
 - 1.2.3.1 Compliance with public records and trade secret legislation requires approval through the use of Listings, certified reports, Technical Evaluation Reports, duly authenticated reports and/or research reports prepared by approved agencies and/or approved sources.
 - 1.2.4 For <u>new materials</u>³⁶ that are not specifically provided for in any regulation, the <u>design strengths and</u> permissible stresses shall be established by <u>tests</u>, where <u>suitable load tests simulate the actual loads and conditions of application that occur.</u>
 - 1.2.5 The <u>design strengths and permissible stresses</u> of any structural material shall <u>conform</u> to the specifications and methods of design using accepted engineering practice.³⁷
 - 1.2.6 The commerce of <u>approved sources</u> (i.e., registered PEs) is regulated by <u>professional engineering</u> <u>legislation</u>. Professional engineering <u>commerce shall always be approved</u> by AHJs, except where there is evidence provided in writing, that specific legislation have been violated by an individual registered PE.
 - 1.2.7 The AHJ shall accept <u>duly authenticated reports</u> from <u>approved agencies</u> in respect to the quality and manner of use of new materials or assemblies as provided for in IBC Section 104.11.³⁸





- 1.3 Approved³⁹ by Los Angeles: The Los Angeles Municipal Code (LAMC) states in pertinent part that the provisions of LAMC are not intended to prevent the use of any material, device or method of construction not specifically prescribed by LAMC. The Department shall use Part III, Recognized Standards in addition to Part II, Uniform Building Code Standards of Division 35, Article 1, Chapter IX of the LAMC in evaluation of products for approval where such standard exists for the product or the material and may use other approved standards that apply. Whenever tests or certificates of any material or fabricated assembly are required by Chapter IX of the LAMC, such tests or certification shall be made by a testing agency approved by the Superintendent of Building to conduct such tests or provide such certifications. The testing agency shall publish the scope and limitation(s) of the listed material or fabricated assembly. The Superintendent of Building Approved Testing Agency Roster is provided by the Los Angeles Department of Building and Safety (LADBS). The Center for Building Innovation (CBI) Certificate of Approval License is TA24945. Tests and certifications found in a DrJ Listing are LAMC approved. In addition, the Superintendent of Building 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 the California Building Code (CBC) Section 1707.1.41
- 1.4 Approved by Chicago: The Municipal Code of Chicago (MCC) states in pertinent part that an Approved Agency is a Nationally Recognized Testing Laboratory (NRTL) acting within its recognized scope and/or a certification body accredited by the American National Standards Institute (ANSI) acting within its accredited scope. Construction materials and test procedures shall conform to the applicable standards listed in the MCC. Sufficient technical data shall be submitted to the building official to substantiate the proposed use of any product, material, service, design, assembly and/or method of construction not specifically provided for in the MCC. This technical data shall consist of research reports from approved sources (i.e., MCC defined Approved Agencies).
- 1.5 **Approved by New York City**: The 2022 NYC Building Code (NYCBC) states in part that an <u>approved agency</u> shall be deemed⁴² an approved testing agency via <u>ISO/IEC 17025 accreditation</u>, an approved inspection agency via <u>ISO/IEC 17020 accreditation</u>, and an approved product evaluation agency via <u>ISO/IEC 17065</u> <u>accreditation</u>. Accrediting agencies, other than federal agencies, must be members of an internationally recognized cooperation of laboratory and inspection accreditation bodies subject to a mutual recognition agreement⁴³ (i.e., ANAB, International Accreditation Forum also known as IAF, etc.).
- 1.6 **Approved by Florida**: <u>Statewide approval</u> of products, methods or systems of construction shall be approved, without further evaluation by:
 - 1.6.1 A certification mark or listing of an approved certification agency,
 - 1.6.2 A test report from an approved testing laboratory,
 - 1.6.3 A product evaluation report based upon testing or comparative or rational analysis, or a combination thereof, from an approved product evaluation entity, or
 - 1.6.4 A product evaluation report based upon testing, comparative or rational analysis, or a combination thereof, developed, signed and sealed by a professional engineer or architect, licensed in Florida.
 - 1.6.5 For local product approval, products or systems of construction shall demonstrate compliance with the structural wind load requirements of the Florida Building Code (FBC) through one of the following methods:
 - 1.6.5.1 A certification mark, listing or label from a commission-approved certification agency indicating that the product complies with the code,
 - 1.6.5.2 A test report from a commission-approved testing laboratory indicating that the product tested complies with the code,
 - 1.6.5.3 A product-evaluation report based upon testing, comparative or rational analysis, or a combination thereof, from a commission-approved product evaluation entity which indicates that the product evaluated complies with the code,





- 1.6.5.4 A product-evaluation report or certification based upon testing or comparative or rational analysis, or a combination thereof, developed and signed and sealed by a Florida professional engineer or Florida registered architect, which indicates that the product complies with the code, or
- 1.6.5.5 A statewide product approval issued by the Florida Building Commission.
- 1.6.6 The <u>Florida Department of Business and Professional Regulation</u> (DBPR) website provides a listing of companies certified as a <u>Product Evaluation Agency</u> (i.e., EVLMiami 13692), a <u>Product Certification Agency</u> (i.e., CER10642), and as a <u>Florida Registered Engineer</u> (i.e., ANE13741).
- 1.7 **Approved by Miami-Dade County (i.e., Notice of Acceptance [NOA])**: A Florida statewide approval is an NOA. An NOA is a Florida local product approval. By Florida law, Miami-Dade County shall accept the statewide and local Florida Product Approval as provided for in Florida legislation 553.842 and 553.8425.
- 1.8 **Approved by New Jersey**: Pursuant to the 2018 Building Code of New Jersey in <u>IBC Section 1707.1</u>

 <u>General</u>, ⁴⁴ it states: "In the absence of approved rules or other approved standards, the building official shall accept duly authenticated reports from <u>approved agencies</u> in respect to the quality and manner of use of new materials or assemblies as provided for in the administrative provisions of the Uniform Construction Code (<u>N.J.A.C. 5:23</u>)". ⁴⁵ Furthermore N.J.A.C 5:23-3.7 states: "Municipal approvals of alternative materials, equipment, or methods of construction."
 - 1.8.1 **Approvals**: Alternative materials, equipment or methods of construction shall be approved by the appropriate subcode official provided the proposed design is satisfactory and that the materials, equipment or methods of construction are suitable for the intended use and are at least the equivalent in quality, strength, effectiveness, fire resistance, durability and safety of those conforming with the requirements of the regulations.
 - 1.8.1.1 A field evaluation label and report or letter issued by a nationally recognized testing laboratory verifying that the specific material, equipment or method of construction meets the identified standards or has been tested and found to be suitable for the intended use, shall be accepted by the appropriate subcode official as meeting the requirements of the above.
 - 1.8.1.2 Reports of engineering findings issued by nationally recognized evaluation service programs such as but not limited to, the Building Officials and Code Administrators (BOCA), the International Conference of Building Officials (ICBO), the Southern Building Code Congress International (SBCCI), the International Code Council (ICC), and the National Evaluation Service, Inc., shall be accepted by the appropriate subcode official as meeting the requirements of the above.
 - 1.8.2 The New Jersey Department of Community Affairs has confirmed that technical evaluation reports, from any accredited entity listed by ANAB, meets the requirements of item the previous paragraph, given that the listed entities are no longer in existence and/or do not provide "reports of engineering findings."
- 1.9 Approved by the Code of Federal Regulations Manufactured Home Construction and Safety Standards: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14 46 and Part 3280, 47 the Department encourages innovation and the use of new technology in manufactured homes. The design and construction of a manufactured home shall conform to the provisions of Part 3282 and Part 3280 where key approval provisions in mandatory language follow:
 - 1.9.1 "All construction methods shall be in conformance with accepted engineering practices."
 - 1.9.2 "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."
 - 1.9.3 "The design stresses of all materials shall conform to accepted engineering practice."





- 1.10 **Approval by US, Local and State Jurisdictions in General**: In all other local and state jurisdictions, the adopted building code legislation states in pertinent part that:
 - 1.10.1 For <u>new materials</u> that are not specifically provided for in this code, the <u>design strengths and permissible</u> <u>stresses</u> shall be established by tests.⁴⁸
 - 1.10.2 For innovative <u>alternatives</u> and/or methods of construction, the building official shall accept <u>duly</u> <u>authenticated reports</u> from <u>approved agencies</u> with respect to the quality and manner of use of <u>new</u> materials or assemblies.⁴⁹
 - 1.10.2.1 An <u>approved agency</u> is "approved" when it is <u>ANAB ISO/IEC 17065 accredited</u>. DrJ Engineering, LLC (DrJ) is in the ANAB directory.
 - 1.10.2.2 An <u>approved source</u> is "approved" when an <u>RDP</u> is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the <u>state legislature</u> via its professional engineering regulations.⁵⁰
 - 1.10.3 The <u>design strengths and permissible stresses</u> of any structural material...shall conform to the specifications and methods of design of accepted engineering practice performed by an <u>approved</u> source.⁵¹
- 1.11 **Approval by International Jurisdictions**: The <u>USMCA</u> and <u>GATT</u> agreements provide for approval of innovative materials, designs, services, and/or methods of construction through the <u>Agreement on Technical Barriers to Trade</u> and the <u>IAF Multilateral Recognition Arrangement</u> (MLA), where these agreements:
 - 1.11.1 State that <u>conformity assessment procedures</u> (i.e., ISO/IEC 17020, 17025, 17065, etc.) are prepared, adopted, and applied so as to grant access for suppliers of like products originating in the territories of other Members under conditions no less favourable than those accorded to suppliers of like products of national origin or originating in any other country, in a comparable situation.
 - 1.11.2 **Approved**: The <u>purpose of the MLA</u> is to ensure mutual recognition of accredited certification and validation/verification statements between signatories to the MLA and subsequently, acceptance of accredited certification and validation/verification statements in many markets based on one accreditation for the timely approval of innovative materials, designs, services, and/or methods of construction.
 - 1.11.3 ANAB is an <u>IAF-MLA</u> signatory where recognition of certificates, validation, and verification statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA, with the appropriate scope, shall be approved.⁵²
 - 1.11.4 Therefore, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent.⁵³
- 1.12 Approval equity is a fundamental commercial and legal principle.⁵⁴







Issue Date: September 9, 2022

Subject to Renewal: July 16, 2025

CBC and CRC Supplement to Report Number 2206-01

REPORT HOLDER: OMG®, Inc. dba FastenMaster®

1 Evaluation Subject

1.1 TrussBRACE

2 Purpose and Scope

- 2.1 Purpose
 - 2.1.1 The purpose of this Report Supplement is to show TrussBRACE, recognized in Report Number 2206-01 has also been evaluated for compliance with the codes listed below.
- 2.2 Applicable Code Editions
 - 2.2.1 CBC—19, 22: California Building Code (Title 24, Part 2)
 - 2.2.2 CRC—19, 22: California Residential Code (Title 24, Part 2.5)
 - 2.2.3 CEC —19, 22: California Energy Code (Title 24, Part 6)

3 Conclusions

- 3.1 TrussBRACE, described in Report Number 2206-01, complies with the CBC and CRC, and is subject to the conditions of use described in this supplement.
- 3.2 Where there are variations between the IBC and IRC and the CBC and CRC applicable to this report, they are listed here:
 - 3.2.1 CBC Section 104.11 replaces IBC Section 104.11.
 - 3.2.2 CBC Section 1707.1 replaces IBC Section 1707.1.
 - 3.2.3 CRC Section R104.11 replaces IRC Section R104.11.

- 4.1 TrussBRACE, described in Report Number 2206-01, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in Report Number 2206-01.
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of CBC and CRC, as applicable.





Issue Date: September 9, 2022

Subject to Renewal: July 16, 2025

LABC and LARC Supplement to Report Number 2206-01

REPORT HOLDER: OMG®, Inc. dba FastenMaster®

1 Evaluation Subject

1.1 TrussBRACE

2 Purpose and Scope

- 2.1 Purpose
 - 2.1.1 The purpose of this Report Supplement is to show TrussBRACE, recognized in Report Number 2206-01, has also been evaluated for compliance with the codes listed below as adopted by the Los Angeles Department of Building and Safety (LADBS).
- 2.2 Applicable Code Editions
 - 2.2.1 LABC—17, 20: Los Angeles Building Code
 - 2.2.2 LARC—17, 20: Los Angeles Residential Code

3 Conclusions

- 3.1 TrussBRACE, described in Report Number 2206-01, complies with the LABC and LARC and is subject to the conditions of use described in this supplement.
- 3.2 Where there are variations between the IBC and IRC and the LABC and LARC applicable to this report, they are listed here:
 - 3.2.1 LABC Section 104 replaces IBC Section 104.
 - 3.2.2 LABC Section 106.4.3 replaces IBC Section 105.4.
 - 3.2.3 LABC Section 104.2.7 replaces IBC Section 110.3.
 - 3.2.4 LABC Section 1707.1 replaces IBC Section 1707.1.
 - 3.2.5 LARC Section 104.2.6 replaces IRC Section R104.11.
 - 3.2.6 LARC Section 108.5 replaces IRC Section R104.4.
 - 3.2.7 LARC Section 108.12.3 replaces IRC Section R109.2.

- 4.1 TrussBRACE, described in Report Number 2206-01, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in Report Number 2206-01.
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of LABC Chapter 16 and Chapter 17, as applicable.





Issue Date: September 9, 2022

Subject to Renewal: July 16, 2025

FBC Supplement to Report Number 2206-01

REPORT HOLDER: OMG®, Inc. dba FastenMaster®

1 Evaluation Subject

1.1 TrussBRACE

2 Purpose and Scope

- 2.1 Purpose
 - 2.1.1 The purpose of this Report Supplement is to show TrussBRACE, recognized in Report Number 2206-01, has also been evaluated for compliance with the codes listed below as adopted by the Florida Building Commission.
- 2.2 Applicable Code Editions
 - 2.2.1 FBC-B—20, 23: Florida Building Code Building
 - 2.2.2 FBC-R—20, 23: Florida Building Code Residential

3 Conclusions

- 3.1 TrussBRACE, described in Report Number 2206-01, complies with the FBC-B and FBC-R and is subject to the conditions of use described in this supplement.
- 3.2 Where there are variations between the IBC and IRC and the FBC-B and FBC-R applicable to this report, they are listed here:
 - 3.2.1 FBC-B Section 104.4 and Section 110.4 are reserved.
 - 3.2.2 FBC-R Section R104 and Section R109 are reserved.
 - 3.2.3 FBC-B Section 2303.4.1.2 replaces IBC Section 2303.4.1.2.
 - 3.2.4 FBC-B Section 105.4.1 replaces IBC Section 105.4.
 - 3.2.5 FBC-B Section 110.3 replaces IBC Section 110.3.

- 4.1 TrussBRACE, described in Report Number 2206-01, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in Report Number 2206-01.
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of FBC-B Chapter 16 and Chapter 17, as applicable.





Notes

- For more information, visit dricertification.org or call us at 608-310-6748.
- https://up.codes/viewer/wyoming/ibc-2021/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 <a href="https://www.justice.gov/atr/mission and
- 4 https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and
 - tests#1706:~:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests%20as
- 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/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1706:~:text=shall%20conform%20to%20the%20specifications%20and%20methods%20of%20design%20of%20accepted%20engineering%20practice
- 6 https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and
 - tests#1707.1:~:text=the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies
- https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1703.4.2
- https://up.codes/viewer/wyoming/ibc-2021/chapter/2/definitions#approved_agency
- https://up.codes/viewer/wyoming/ibc-2021/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/
- 12 https://www.cbitest.com/accreditation/
- 13 https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-administration#104:~:text=to%20enforce%20the%20provisions%20of%20this%20code
- https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and
 - administration#104.11:~:text=Where%20the%20alternative%20material%2C%20design%20or%20method%20of%20construction%20is%20not%20approved%2C%20the%20building%20official%20shall%20respond%20in%20writing%2C%20stating%20the%20reasons%20why%20the%20alternative%20was%20not%20approved AND https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-
 - administration#105.3.1:~:text=If%20the%20application%20of%20the%20construction%20documents%20do%20not%20conform%20to%20the%20requirements%20of%20pertinent%20laws%2C%20the%20building%20official%20shall%20reject%20such%20application%20in%20writing%2C%20stating%20the%20reasons%20therefore
- https://up.codes/viewer/colorado/ibc-2021/chapter/17/special-inspections-and-
 - $\frac{\text{tests}\#1707.1:\sim:\text{text=the}\%20\text{building}\%20\text{official}\%20\text{shall}\%20\text{accept}\%20\text{duly}\%20\text{authenticated}\%20\text{reports}\%20\text{from}\%20\text{approved}\%20\text{agencies}\%20\text{in}\%20\text{respect}\%20\text{to}\%20\text{the}\%20\text{guality}\%20\text{and}\%20\text{manner}\%20\text{of}\%20\text{new}\%20\text{materials}\%20\text{or}\%20\text{assemblies}\%20\text{as}\%20\text{provided}\%20\text{for}\%20\text{in}\%20\text{Section}\%20104.11$
- https://iaf.nu/en/about-iaf
 - mla/#:~:text=it%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
- 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, all references in this Listing are from the 2021 version of the codes and the standards referenced therein. This material, product, design, service and/or method of construction also complies with the 2000-2021 versions of the referenced codes and the standards referenced therein.
- 20 All references to the CBC and CRC are the same as the 2021 IBC and 2021 IRC unless otherwise noted in the California Supplement at the end of this report.
- 21 All references to the LABC and LARC are the same as the 2021 IBC and 2021 IRC unless otherwise noted in the Los Angeles Supplement at the end of this report.
- 22 All references to the FBC-B and FBC-R are the same as the 2021 IBC and 2021 IRC unless otherwise noted in the FBC Supplement at the end of this report.
- https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2(Listed%20or%20certified); https://up.codes/viewer/colorado/ibc-2021/chapter/2/definitions#listed AND https://up.codes/viewer/colorado/ibc-2021/chapter/2/definitions#labeled
- https://up.codes/viewer/colorado/ibc-2021/chapter/17/special-inspections-and-tests#1703.4
- 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%20liv_able%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20vork%20the%20the%20
- 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%20 engineering%20analysis%20or%20by%20suitable%20load%20tests%20to%20simulate%20the%20actual%20loads%20and%20conditions%20of%20application%20that%20occur
- Qualification is performed by a legislatively defined <u>Accreditation Body</u>. <u>ANSI National Accreditation Board (ANAB)</u> is the largest independent accreditation body in North America and provides services in more than 75 countries. <u>Dr.J.</u> is an ANAB accredited <u>product certification body</u>.
- ²⁸ See Code of Federal Regulations (CFR) <u>Title 24 Subtitle B Chapter XX Part 3280</u> for definition.
- 29 2018 IFC Section 104.9

Report Number: 2206-01 TrussBRACE™ Roof Truss Support
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- ³⁰ 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 where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.
- https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1707.1
- 32 Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.
- 33 http://www.drjengineering.org/AppendixC AND https://www.drjcertification.org/cornell-2016-protection-trade-secrets
- 34 https://www.law.cornell.edu/uscode/text/18/1832#:~:text=imprisoned%20not%20more%20than%2010%20years
- https://www.law.cornell.edu/uscode/text/18/1832#:~:text=Any%20organization%20that,has%20thereby%20avoided
- https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1706.2
- ³⁷ IBC 2021, Section 1706.1 Conformance to Standards
- 38 IBC 2021, Section 1707 Alternative Test Procedure, 1707.1 General
- 39 See Section 11 for the distilled building code definition of Approved
- 40 Los Angeles Municipal Code, SEC. 98.0503. TESTING AGENCIES
- https://up.codes/viewer/california/ca-building-code-2022/chapter/17/special-inspections-and-tests#1707.1
- New York City, The Rules of the City of New York, § 101-07 Approved Agencies
- New York City, The Rules of the City of New York, § 101-07 Approved Agencies
- https://up.codes/viewer/new_jersey/ibc-2018/chapter/17/special-inspections-and-tests#1707.1
- 45 https://www.nj.gov/dca/divisions/codes/codreg/ucc.html
- 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
- 48 IBC 2021, Section 1706 Design Strengths of Materials, 1706.2 New Materials, Adopted law pursuant to IBC model code language 1706.2.
- ⁴⁹ IBC 2021, Section 1707 Alternative Test Procedure, 1707.1 General. Adopted law pursuant to IBC model code language 1707.1.
- 50 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/
- 51 IBC 2021, Section 1706 Design Strengths of Materials, Section 1706.1 Conformance to Standards Adopted law pursuant to IBC model code language 1706.1.
- 52 <u>https://iaf.nu/en/about-iaf-</u>
 - mla/#:~:text=it%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
- ⁵³ 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

