



Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

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Use of Huntsman Building Solutions Spray Polyurethane Foam (SPF) in Two-Hour Fire-Rated Wall Assemblies

Trade Secret Report Holder:

Huntsman Building Solutions

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CSI Designations:

DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION Section: 07 21 29 - Sprayed Insulation

1 Innovative Products Evaluated1

- 1.1 The Huntsman Building Solutions (HBS) products evaluated in this report for use in a two-hour fire-rated non-load-bearing Area Separation Wall (ASW) assembly are listed below:
 - 1.1.1 Classic Ultra™
 - 1.1.2 Classic Ultra Select™
 - 1.1.3 Classic Plus™
 - 1.1.4 Icynene Classic 45
 - 1.1.5 Icynene Classic 75
- 1.2 The products listed in **Section 1.1** of this report shall hereinafter be referred to as, "HBS Approved ASW Spray Foams".
- 1.3 The Huntsman Building Solutions products evaluated in this report for use in a two-hour fire-rated load-bearing Wall Partition (WP) assembly are listed below:
 - 1.3.1 Sealection® 500
 - 1.3.2 Sealection® NM Open-Cell Spray Foam
 - 1.3.3 Foam-Lok™ 500
 - 1.3.4 Foam-Lok™ 450
 - 1.3.5 OC No-Mix™
 - 1.3.6 Classic Ultra™
 - 1.3.7 Classic Ultra Select™
 - 1.3.8 Icynene Ultra 50









- 1.3.9 Icynene OC No-Mix
- 1.3.10 Icynene Classic 45
- 1.4 The products listed in **Section 1.3** of this report shall hereinafter be referred to as "HBS Approved WP Spray Foams".

2 Product Description and Materials

2.1 The innovative products evaluated in this report are shown in Figure 1 and Figure 2.

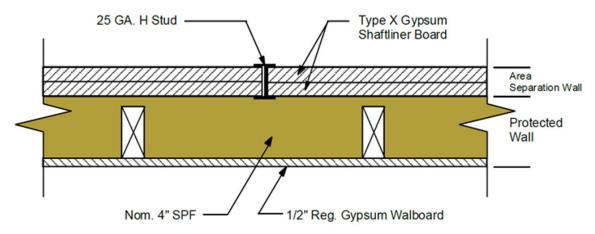


Figure 1. HBS Approved ASW Spray Foams in a Two-Hour Fire-Rated Non-Load-Bearing ASW Assembly

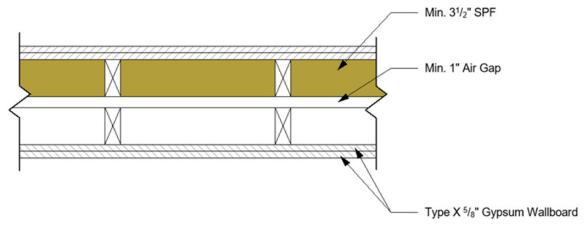


Figure 2. HBS Approved WP Spray Foams in a Two-Hour Fire-Rated Load-Bearing WP Assembly

- 2.2 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams are proprietary, open (low density) and closed (medium density) cell Spray Polyurethane Foam (SPF) with a nominal density between 0.5 and 2.4 pcf.
- 2.3 The two components of HBS Approved ASW Spray Foams HBS Approved WP Spray Foams are:
 - 2.3.1 Component A: MDI/pMDI isocyanate
 - 2.3.2 Component B: proprietary resin
- 2.4 These two components are combined at the point of spray application.
- 2.5 As needed, review material properties for design in **Section 6** and the regulatory evaluation in **Section 8**.









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 <u>Duly authenticated reports</u>⁷ and <u>research reports</u>⁸ 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 secretes under the regulation, 18.US.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 <u>approved source</u> is "approved" when a professional engineer (i.e., <u>Registered Design Professional</u>, hereinafter <u>RDP</u>) 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 <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>RDP</u>.
 - 3.5.1 The Center for Building Innovation (CBI) is ANAB 13 ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall <u>enforce</u>¹⁴ 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 <u>writing</u>¹⁵ 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. 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. Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent, 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 Local, State, and Federal Approvals; Standards; Regulations²⁰

- 4.1 Local, State, and Federal
 - 4.1.1 Approved in all local jurisdictions pursuant to ISO/IEC 17065 <u>duly authenticated report</u> 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, Texas Department of Insurance, and Wichita.²¹
 - 4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 <u>duly authenticated report</u> 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 E119: Standard Test Methods for Fire Tests of Building Construction and Materials
 - 4.2.2 ASTM E2032: Standard Guide for Extension of Data from Fire Resistance Test Conducted in Accordance with ASTM E119
 - 4.2.3 GA 600 Fire-resistance and Sound Control Design Manual, 22nd Edition
- 4.3 Regulations
 - 4.3.1 IBC 18, 21, 24: International Building Code®
 - 4.3.2 IRC 18, 21, 24: International Residential Code®
 - 4.3.3 IECC 18, 21, 24: International Energy Conservation Code®

5 Listed²⁵

5.1 Equipment, materials, products, or services included in a List published by a <u>nationally recognized testing laboratory</u> (i.e., CBI), an <u>approved agency</u> (i.e., CBI and DrJ), and/or and <u>approved source</u> (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.

Tabulated Properties Generated from Nationally Recognized Standards

- 6.1 General
 - 6.1.1 HBS Approved ASW Spray Foams are used in the following applications:
 - 6.1.1.1 Two-hour fire-rated non-load-bearing ASW assemblies where required in buildings constructed in accordance with the IBC or IRC.
 - 6.1.1.2 Two-hour fire-rated non-load-bearing ASW assemblies without a protected wall when the ASW forms the fire barrier between inaccessible attic spaces. Ignition or thermal barriers shall be installed in accordance with the applicable code.
 - 6.1.2 HBS Approved WP Spray Foams are used in the following applications:
 - 6.1.2.1 Two-hour fire-rated load-bearing wall partition assemblies where required in buildings constructed in accordance with the IBC or IRC.
- 6.2 Two-Hour Fire-Rated Non-Load-Bearing ASW Assemblies
 - 6.2.1 HBS Approved ASW Spray Foams are approved for use in two-hour fire-rated non-load-bearing ASW assemblies as described in this document and in accordance with <u>IBC Table 601</u>, <u>IBC Table 705.5</u>, ²⁶ and IRC Section R302.2.
 - 6.2.1.1 HBS Approved ASW Spray Foams shall be applied directly to the inside face of the gypsum board shaft liner, its accompanying H-Studs, and the adjacent framing without the need for an airspace between the shaft liner and the insulation.
 - 6.2.1.1.1 HBS Approved ASW Spray Foams may be applied to one or both sides of the shaft liner wall assembly creating either symmetrical or asymmetrical layouts.









- 6.2.1.2 Up to 4" of HBS Approved ASW Spray Foams are allowed to be applied as described in **Section 6.2.1**, directly to the ASW assemblies listed in **Section 6.2.2**.
- 6.2.1.3 The thickness of HBS Approved ASW Spray Foams when applied to ASW assemblies in attic spaces per **Section 6.1.1.2** shall be governed by testing of spray foam exposed in attic applications as detailed in Report Number 1406-03.
- 6.2.2 HBS Approved ASW Spray Foams are approved for use in the following two-hour fire-rated non-load-bearing ASW assemblies when applied according to **Section 6.2.1**:
 - 6.2.2.1 UL U336
 - 6.2.2.2 UL U347
 - 6.2.2.3 UL U366
 - 6.2.2.4 UL U373
 - 6.2.2.5 <u>UL U375</u>
 - 6.2.2.6 UL U388
 - 6.2.2.7 GA ASW 0800
 - 6.2.2.8 GA ASW 0810
 - 6.2.2.9 GA ASW 0980
 - 6.2.2.10 GA ASW 0985
 - 6.2.2.11 GA ASW 0997
 - 6.2.2.12 GA ASW 0999
 - 6.2.2.13 GA ASW 1004
- 6.3 Two-Hour Fire-Rated Load-Bearing Wall Partition Assemblies
 - 6.3.1 HBS Approved WP Spray Foams are approved for use in two-hour fire-rated load-bearing wall partition assemblies in accordance with <u>IBC Table 601</u>, <u>IBC Table 705.5</u>, and <u>IRC Section R302</u>, and are as described below:
 - 6.3.1.1 A double row of minimum 2 x 4 studs aligned front to back, 16" o.c. on separate plates a minimum of 1" apart.
 - 6.3.1.2 Two (2) layers of ⁵/₈" thick Type X Gypsum Wall Board (GWB) conforming to ASTM C1396 applied vertically (parallel to studs) with staggered joints covered with tape and joint compound (face layer only).
 - 6.3.1.2.1 Base layer of GWB fastened to wood studs and bearing plates 8":8" o.c. (edge:field) with 15/8" Type W screws.
 - 6.3.1.2.2 Face layer of GWB fastened to wood studs and bearing plates over base layer 8":8" o.c. (edge:field) with $2^{1}/_{2}$ " Type W screws.
 - 6.3.1.3 Minimum of 31/2" of HBS Approved WP Spray Foam installed in stud cavities of either wall section.
 - 6.3.2 HBS Approved WP Spray Foams are approved for use in the following two-hour fire-rated load-bearing assemblies when applied according to **Section 6.3.1**:
 - 6.3.2.1 GA WP 3820
 - 6.3.2.2 ICC ESL 1373, Design No SPFI-1373-01
- 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 Performance²⁷

- 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.²⁸
- 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.²⁹

8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams comply with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:
 - 8.1.1 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams were evaluated in accordance with ASTM E119 for the following applications:
 - 8.1.1.1 Performance of two-hour fire-rated non-load-bearing area separation wall (ASW) assemblies listed in **Section 6.2**.
 - 8.1.1.2 Performance in two-hour fire-rated non-load-bearing ASW assemblies without a protected wall when the ASW forms the fire barrier between attic spaces (with a thermal or ignition barrier in accordance with the applicable code).
 - 8.1.1.3 Performance in two-hour fire-rated load-bearing wall assemblies listed in **Section 6.3**.
- 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, which is an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP or approved sources. DrJ is qualified³⁰ to practice product and regulatory compliance services within its scope of accreditation and engineering expertise, 31 respectively.
- 8.3 Engineering evaluations are conducted with DrJ's ANAB <u>accredited ICS code scope</u> 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, contact the manufacturer for counsel on the proper installation method.
- 9.3 General
 - 9.3.1 SPF insulation shall be applied by licensed dealers and installers certified by Huntsman Building Solutions.
 - 9.3.2 A copy of the manufacturer published installation instructions shall be available at all times on the jobsite during installation.
 - 9.3.3 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams shall be installed in accordance with the manufacturer installation instructions and this report.
 - 9.3.4 In the event of a conflict between the manufacturer installation instructions and this report, the more restrictive shall govern.
 - 9.3.5 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams shall be applied to the framing using two-component spray equipment and shall be applied using a 1:1 ratio of Component A and Component B.









- 9.3.6 The substrate shall be dry and free of frost, ice, rust, oil, grease, dirt, or any other substances that may prevent adhesion of the SPF to the substrate.
- 9.3.7 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams are intended for interior use only and are not to be used where they could encounter water. Provide protection from weather during and after installation.
- 9.3.8 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams shall be installed to the required thickness in accordance with the manufacturer installation instructions.
- 9.3.9 Do not use HBS Approved ASW Spray Foams nor HBS Approved WP Spray Foams inside of electrical or junction boxes.
- 9.3.10 HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams shall be installed only when the temperature is at or above 14° F (-10° C).
- 9.3.11 Insulation shall not be installed in areas where the service temperature is greater than 180° F (82° C).
- 9.3.12 For general SPF installation guidelines, see the American Chemistry Council's Guidance on Best Practices for the Installation of Spray Polyurethane Foam.
- 9.4 Two-Hour Fire-Rated Non-Load-Bearing ASW Assemblies
 - 9.4.1 Any two-hour fire-rated non-load-bearing ASW assemblies shall be installed in accordance with the wall assembly designs listed in **Section 6.2**.
 - 9.4.2 Fire blocking shall be installed at the floor-to-wall intersections in accordance with the applicable code.
 - 9.4.3 Other fire resistant wall assemblies are outside the scope of this report.
- 9.5 Two-Hour Fire-Rated Load-Bearing WP Assemblies
 - 9.5.1 Any two-hour fire-rated load-bearing WP assemblies shall be installed in accordance with the wall assembly designs listed in **Section 6.3**.
 - 9.5.2 Fire blocking shall be installed at the floor-to-wall intersections in accordance with the applicable code.
 - 9.5.3 Other fire resistant wall assemblies are outside the scope of this report.

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 Fire testing of wall assemblies in accordance with ASTM E119
- 10.2 Engineering evaluation performed by Priest & Associates Consulting, LLC.
- 10.3 UL Fire Resistance Directory, Volume 1.
- 10.4 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.
- 10.5 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.









- 10.6 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 authenticated report</u>, may be dependent upon published design properties by others.
- 10.7 Testing and Engineering Analysis
 - 10.7.1 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.³²
- 10.8 Where additional condition of use and/or regulatory compliance information is required, please search for HBS Approved ASW Spray Foams on the DrJ Certification website.

11 Findings

- 11.1 As outlined in **Section 6**, HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams have performance characteristics that were tested and/or meet applicable regulations. In addition, they are 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, HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams shall be approved for the following applications:
 - 11.2.1 As a component of the two-hour fire-rated non-load-bearing ASW assemblies listed in **Section 6.2** (HBS Approved ASW Spray Foams only).
 - 11.2.2 As a component of two-hour fire-rated non-load-bearing ASW assemblies without a protected wall when the ASW forms the fire barrier between attic spaces (HBS Approved ASW Spray Foams only).
 - 11.2.3 As a component of the two-hour fire-rated load-bearing WP assemblies listed in **Section 6.3** (HBS Approved WP Spray Foams only).
- 11.3 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from Huntsman Building Solutions.
- 11.4 IBC Section 104.2.3³³ (IRC Section R104.2.2³⁴ and IFC Section 104.2.3³⁵ 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.
- 11.5 Approved: ³⁶ Building regulations require that the building official shall accept duly authenticated reports. ³⁷
 - 11.5.1 An approved agency is "approved" when it is ANAB ISO/IEC 17065 accredited.
 - 11.5.2 An approved source is "approved" when an RDP is properly licensed to transact engineering commerce.
 - 11.5.3 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.









- 11.6 DrJ is a licensed engineering company, employs licensed <u>RDP</u>s and is an <u>ANAB Accredited Product Certification Body Accreditation #1131</u>.
- 11.7 Through the <u>IAF Multilateral Arrangement</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.³⁸

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 Use of HBS Approved ASW Spray Foams and HBS Approved WP Spray Foams in wall assemblies other than those listed in **Section 6** are outside the scope of this report.
- 12.4 HBS Approved ASW Spray Foams may be used without an ignition barrier where permitted by ESR-3500 or Report Number <u>1406-03</u>.
- 12.5 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:
 - 12.5.1 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.
 - 12.5.2 This report and the installation instructions shall be submitted at the time of permit application.
 - 12.5.3 These innovative products have an internal quality control program and a third-party quality assurance program.
 - 12.5.4 At a minimum, these innovative products shall be installed per **Section 9**.
 - 12.5.5 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.
 - 12.5.6 These innovative products have an internal quality control program and a third party quality assurance program in accordance with <u>IBC Section 104.7.2</u>, <u>IBC Section 110.4</u>, <u>IBC Section 1703</u>, <u>IRC Section R104.7.2</u>, and IRC Section R109.2.
 - 12.5.7 The application of these innovative products in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by <u>IBC</u> Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.
- 12.6 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 make, or cause to be made, the necessary tests and investigations; or the <u>building official</u> 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 <u>Section 104.2.3</u>", all of <u>IBC Section 104</u>, and <u>IBC Section 105.3</u>.
- 12.7 <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., owner or RDP).
- 12.8 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 products listed in **Section 1** are 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 <u>huntsmanbuildingsolutions.com</u>.

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 <u>DrJ Certification</u>.









Notes

- For more information, visit <u>dricertification.org</u> 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 <u>TPI 1</u>, the <u>NDS</u>, <u>AISI S202</u>, <u>US</u> professional engineering law, <u>Canadian building code</u>, <u>Canada professional engineering law</u>, <u>Qualtim External Appendix A</u>: <u>Definitions/Commentary</u>, <u>Qualtim External Appendix B</u>: <u>Project/Deliverables</u>, <u>Qualtim External Appendix C</u>: <u>Intellectual Property and Trade Secrets</u>, 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 http
- 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%2C%20or%20cause%20to%20be%20made%2C%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
- 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.cbitest.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
- 17 <u>https://iaf.nu/en/about-iaf-</u>
 - mla/#:~:text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%20it%20is%20recognise%20certificates%20 and%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, 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
- 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
- 26 2018 IBC Table 602
- 27 https://up.codes/viewer/mississippi/ibc-2024/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%20liwable%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades









- 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
- 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>.
- https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prgID=1&orgID=2125&statusID=4#:~:text=Bill%20Payment%20Date-,Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH
- 32 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
- 33 <u>2021 IBC Section 104.11</u>
- 34 2021 IRC Section R104.11
- 35 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
- 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.
- https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1
- 38 Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.