



Listing and Technical Evaluation Report™

Report No: 2102-04



Issue Date: July 20, 2022

Revision Date: February 19, 2024

Subject to Renewal: October 1, 2024

CAMO® ⁵/₁₆" Structural Series Screw for Use in Multi-Ply Truss, Sawn Lumber and Structural Composite Lumber (SCL) Assemblies

Trade Secret Report Holder:

National Nail® Corporation dba CAMO®

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CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES Section: 06 05 23 - Wood, Plastic, and Composite Fastenings

1 Innovative Product Evaluated

1.1 CAMO® 5/16" Structural Series Screws

2 Product Description and Materials

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



Figure 1. 5/16" Flat Head Screw

- 2.2 CAMO® ⁵/₁₆" Structural Series Screws are threaded fasteners manufactured using standard cold-forming processes and are subsequently heat-treated and coated.
- 2.3 CAMO® ⁵/₁₆" Structural Series Screws are available with a proprietary coating system designated at PROTECH™ Ultra 4.
- 2.4 CAMO® 5/16" Structural Series Screws have a round flat head with a T40 star drive and are partially threaded.
- 2.5 Fastener Material
- 2.6 CAMO® ⁵/₁₆" Structural Series Screws are made of hardened carbon steel grade 10B18, 1022, or 10B21 wire conforming to ASTM A510 and/or Grade 17MnB3 or 19MnB4 wire conforming to DIN 1654.
- 2.7 CAMO® 5/16" Structural Series Screws, evaluated in this report are set forth in **Table 1**.





Table 1. CAMO® 5/16" Structural Series Screws Properties1

Fastener	Head				Length (in)		Diameter (in)			Bending Yield	Allowable Steel Strength (lbs)	
Designation	Style	Drive System	Diameter (in)	Height (in)	Fastener ²	Thread ³	Shank	Minor	Major	Strength, ⁴ f _{yb} (psi)	Tensile	Shear ⁵
⁵ / ₁₆ " x 2 ⁷ / ₈ "		T40 Star Drive	0.738"	0.079"	2.875	1.437	0.220	0.197	0.307	175,000	1,580	
⁵ / ₁₆ " x 3 ¹ / ₂ "					3.500	2.000						
⁵ / ₁₆ " x 4"					4.000	2.370						
⁵ / ₁₆ " x 4 ¹ / ₂ "	Flat Head				4.500	2.370						1,150
5/ ₁₆ " x 5"					5.000	2.752						
5/ ₁₆ " x 6"					6.000	2.752						
⁵ / ₁₆ " x 6 ³ / ₄ "					6.750	2.752						

SI: 1 in = 25.4 mm, 1 lb = 4.45 N, 1 psi = 0.00689 MPa

- 1. Tabulated fastener dimensions are measured on uncoated fasteners. Finished dimensions are different due to the proprietary coating added.
- 2. Nominal fastener length is measured from the underside of the head to the tip.
- 3. Thread length includes tapered tip.
- 4. Bending yield strength, F_{yb}, is determined in accordance with ASTM F1575 using minor thread diameter when fastener is tested in threaded section.
- 5. Shear strength is determined in accordance with AISI S904 using minor thread diameter when fastener is tested in threaded section.

2.8 Corrosion Resistance

- 2.8.1 CAMO® ⁵/₁₆" Structural Series Screws may be used where screws are required to exhibit corrosion resistance when exposed to adverse environmental conditions and/or in chemically treated wood, which are subject to the limitations of this report, and are alternatives to hot-dipped galvanized screws with a coating weight in compliance with ASTM A153, Class D.
- 2.8.2 CAMO® ⁵/₁₆" Structural Series Screws having the proprietary PROTECH™ Ultra 4 coatings are equivalent to the protection provided by code-approved hot-dipped galvanized coatings meeting ASTM A153, Class D (IBC Section 2304.10.6ⁱⁱ and IRC Section R317.3) when recognized for use by the American Wood Protection Association (AWPA) in untreated wood and Ground Contact General Use pressure treated wood for exterior, freshwater, general construction applications (i.e., Ground Contact General Use AWPA UC1 UC4A).
- 2.8.3 Fire Retardant Treated (FRT) Wood Applications:
 - 2.8.3.1 CAMO® ⁵/₁₆" Structural Series Screws having the proprietary PROTECH™ Ultra 4 coatings are recognized for use in FRT lumber provided the conditions set forth by the FRT lumber manufacturer are met, including appropriate strength reductions.

2.9 Wood Material

- 2.9.1 Wood main and side members must be solid-sawn lumber or boards having an assigned specific gravity as given in the respective tables of this report.
- 2.10 As needed, review material properties for design in Section 6 and to regulatory evaluation in Section 8.





3 Definitions

- 3.1 New Materialsⁱⁱⁱ 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.^{iv} The design strengths and permissible stresses shall be established by tests^v and/or engineering analysis.^{vi}
- 3.2 <u>Duly Authenticated Reports vii</u> and <u>Research Reports viii</u> are test reports and related engineering evaluations, which are written by an <u>approved agency ix</u> and/or an <u>approved source.</u> x
 - 3.2.1 These reports contain intellectual property and/or trade secrets, which are protected by the <u>Defend Trade</u> Secrets Act (DTSA).xi
- 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 <u>ANAB directory</u>.
- 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 <u>state legislature</u> via its professional engineering regulations.**ii
- 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 ANABxiii ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall <u>enforce</u>^{xiv} 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>^{xv} 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.^{xvi}
- 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.xvii Therefore, all ANAB ISO/IEC 17065 Duly Authenticated Reports are approval equivalent.xviii
- 3.9 Approval equity is a fundamental commercial and legal principle.xix

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

- 4.1 Standards
 - 4.1.1 AISI S904: Standard Test Methods for Determining the Tensile and Shear of Screws
 - 4.1.2 ANSI/AWC NDS: National Design Specification (NDS) for Wood Construction
 - 4.1.3 ASTM A153: Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
 - 4.1.4 ASTM A510: Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel
 - 4.1.5 ASTM B117: Standard Practice for Operating Salt Spray (Fog) Apparatus
 - 4.1.6 ASTM D1761: Standard Test Methods for Mechanical Fasteners in Wood
 - 4.1.7 ASTM F1575: Standard Test Method for Determining Bending Yield Moment of Nails
 - 4.1.8 ASTM G85: Standard Practice for Modified Salt Spray (Fog) Testing
 - 4.1.9 ASTM G198: Standard Test Method for Determining the Relative Corrosion Performance of Driven Fasteners in Contact with Treated Wood





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- 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 FBC-B—20, 23: Florida Building Code Building^{xxi} (FL 41741)
 - 4.2.4 FBC-R—20, 23: Florida Building Code Residential^{xxi} (FL 41741)
 - 4.2.5 LABC—17, 20: Los Angeles Building Codexxii
 - 4.2.6 LARC—17, 20: Los Angeles Residential Codexxii

5 Listedxxiii

5.1 A nationally recognized <u>testing laboratory</u> such as CBI, states that the materials, designs, methods of construction, and/or equipment have met nationally recognized standards and/or have been tested and found suitable for use in a specified manner.

6 Tabulated Properties Generated from Nationally Recognized Standards

- 6.1 CAMO® ⁵/₁₆" Structural Series Screws are used for attaching multi-ply wood members including trusses, sawn lumber, and SCL products.
- 6.2 Design
 - 6.2.1 Design of CAMO® ⁵/₁₆" Structural Series Screws is governed by the applicable code and the provisions for dowel type fasteners in NDS.
 - 6.2.2 Unless otherwise noted, adjustment of the design stresses for duration of load shall be in accordance with the applicable code.
- 6.3 Multi-Ply Connection Design Values
 - 6.3.1 CAMO® 5/16" Structural Series Screws for Multi-ply Truss and Sawn Lumber Assemblies:
 - 6.3.1.1 Sawn lumber design values are provided for assemblies with two, three, or four plies in **Table 2**. Assembly conditions are detailed in **Figure 2**.





Table 2. Allowable Lateral Design Values (plf) for Multi-ply Truss and Sawn Lumber Assemblies^{2,3,4,5,6}

Fastener	Assembly	Members	Fastener Length ¹ (in)	SPF/HF (0.42)						DF/SP (0.50)					
				12"	o.c.	16"	o.c.	24"	o.c.	12"	o.c.	16"	o.c.	24"	o.c.
				Number of Fasteners per Row											
				2	3	2	3	2	3	2	3	2	3	2	3
⁵ / ₁₆ " x 2 ⁷ / ₈ "	А	2-ply 11/2"	27/8"	1320	1980	990	1485	660	990	1680	2520	1265	1900	840	1260
5/ ₁₆ " x 4"	В	3-ply 11/2"	4"	990	1485	745	1120	495	745	1260	1890	945	1420	630	945
5/ ₁₆ " x 4 ¹ / ₂ "	В	3-ply 11/2"	41/2"	990	1485	745	1120	495	745	1260	1890	945	1420	630	945
5/ ₁₆ " x 6"	С	4-ply 11/2"	6"	1575	2365	1185	1780	790	1185	2040	3060	1535	2305	1020	1530

SI: 1 in = 25.4 mm, 1 lb/ft = 0.0146 kN/m

- 1. Fastener length is measured from the topside of the head to the tip.
- 2. Wood framing shall be any species with Specific Gravity (SG) of 0.42 or greater. For wood species with an assigned SG between 0.42 and 0.50, use the tabulated values for SG of 0.42. For wood species with an assigned SG greater than 0.50, use the tabulated values for SG of 0.50.
- 3. Allowable design values are based on a load duration factor C_D = 1.0 and shall be multiplied by all applicable adjustment factors per the NDS.
- 4. The tabulated allowable design loads may be applies to either side of the beam (head or point side of the fastener). Where loads are applied to both sides of the beam simultaneously, the total load applied to the beam shall not exceed the tabulated load.
- 5. For top-loaded members with even loading across the width of the entire assembly, fasteners shall be installed in two (2) rows with a maximum distance of 32" o.c. between fasteners in the same row.
- 6. Tabulated loads are for the connection strength. Beams and framing members shall be independently checked by a registered design professional.

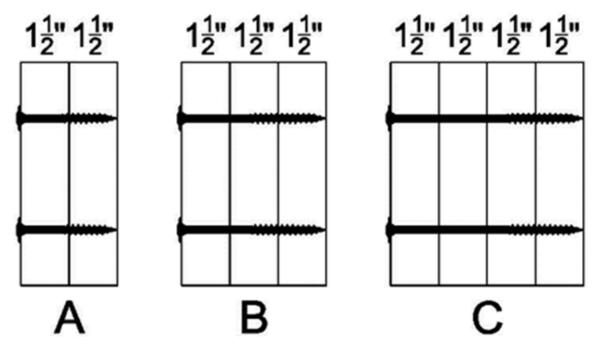


Figure 2. Truss and Sawn Lumber Assembly Configuration





- 6.3.2 CAMO® 5/16" Structural Series Screws for Multi-ply Structural Composite Lumber (SCL) Assemblies:
 - 6.3.2.1 SCL is a family of engineered wood products that includes but is not limited to, Laminated Veneer Lumber (LVL), Laminated Strand Lumber (LSL), Parallel Strand Lumber (PSL) and Oriented Strand Lumber (OSL).
 - 6.3.2.2 CAMO® ⁵/₁₆" Structural Series Screws SCL design values are provided for assemblies with two, three, or four plies in **Table 3**. Assembly conditions are detailed in **Figure 3**.

Table 3. Allowable Lateral Design Values (plf) for Multi-ply Truss and SCL Assemblies^{2,3,4,5,6}

		Members	Fastener Length ¹ (in)	12"	O.C.	16"	0.C.	24" o.c.				
Fastener	Assembly			Number of Fasteners per Row								
				2	3	2	3	2	3			
⁵ / ₁₆ " x 3 ¹ / ₂ "	А	2-ply 13/4"	31/2"	1680	2520	1265	1900	840	1260			
⁵ / ₁₆ " x 5"	В	3-ply 13/4"	5"	2295	3445	1725	2590	1150	1725			
⁵ / ₁₆ " x 6 ³ / ₄ "	С	4-ply 1 ³ / ₄ "	63/4"	2040	3060	1535	2305	1020	1530			
⁵ / ₁₆ " x 5"	D	2-ply 1 ³ / ₄ " & 3 ¹ / ₂ "	5"	2295	3445	1725	2590	1150	1725			
⁵ / ₁₆ " x 6 ³ / ₄ "	E	3-ply 1 ³ / ₄ " & 3 ¹ / ₂ "	63/4"	2040	3060	1535	2305	1020	1530			
⁵ / ₁₆ " x 6 ³ / ₄ "	F	2-ply 3 ¹ / ₂ "	63/4"	3060	4590	2300	3450	1530	2295			

SI: 1 in = 25.4 mm, 1 lb/ft = 0.0146 kN/m

- 1. Fastener length is measured from the underside of the head to the tip.
- 2. SCL shall have a SG of 0.50 or greater. Thicknesses listed in Figure 3 are a minimum.
- 3. Allowable design values are based on a load duration factor of C_D = 1.0 and shall be multiplied by all applicable adjustment factors per the NDS.
- 4. The tabulated allowable design loads may be applies to either side of the beam (head or point side of the fastener). Where loads are applied to both sides of the beam simultaneously, the total load applied to the beam shall not exceed the tabulated load.
- 5. For top-loaded members with even loading across the width of the entire assembly, and a depth of 18" or less, fasteners shall be installed in two (2) rows with a maximum distance of 24" o.c. between fasteners in the same row. Use three (3) rows for members deeper than 18".
- 6. Tabulated loads are for the connection strength. Beams and framing members shall be independently checked by a registered design professional.

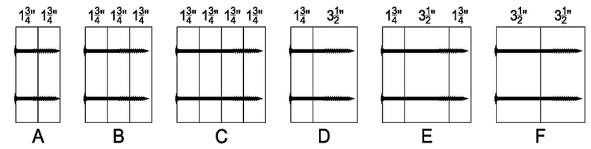


Figure 3. SCL Assembly Configurations





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6.4 Spacing, Edge Distance and End Distance

6.4.1 CAMO® ⁵/₁₆" Structural Series Screws spacing, edge distance, and end distances shall be as specified in **Table 4**.

Table 4. Screw Spacing, Edge Distance and End Distance Requirements^{1,2}

Connection Geometry	Minimum Spacing (in)
Edge Distance –Load in any direction	5/8"
End Distance – Load parallel to grain, towards end	33/8"
End Distance – Load perpendicular to grain, away from end	21/4"
End Distance – Load perpendicular to grain	21/4"
Spacing between Fasteners in a Row – Parallel to grain	33/8"
Spacing between Fasteners in a Row – Perpendicular to grain	21/4"
Spacing between Rows of Fasteners – In-line	11/8"
Spacing between Rows of Fasteners – Staggered ²	5/8"

SI: 1 in = 25.4 mm

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

7 Certified Performancexxiv

- 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.xxv
- 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.xxvi

8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 CAMO® ⁵/₁₆" Structural Series Screws were evaluated for their ability to provide multi-ply attachment in trusses, sawn lumber and Structural Composite Lumber (SCL) applications.
- 8.2 Corrosion resistance was evaluated in accordance with ASTM B117, ASTM G85, and ASTM G198.
- 8.3 Use of fasteners in locations exposed to saltwater or saltwater spray is outside the scope of this report.

^{1.} Edge distances, end distances, and spacing of fasteners shall be sufficient to prevent splitting of the wood or as shown in this table, whichever is the more restrictive.

^{2.} Values for "Spacing between Rows or Fasteners-Staggered" apply where the screws in adjacent rows are offset by one-half of the "Spacing between Fasteners in a Row".





- 8.4 Any building code, regulation, and/or accepted engineering evaluations (i.e., research reports, duly authenticated reports, etc.) that are conducted for this Listing were performed by DrJ Engineering, LLC (DrJ), an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP/approved sources. DrJ is qualified xxviii to practice product and regulatory compliance services within its scope of accreditation and engineering expertise, respectively.
- 8.5 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.
- 8.6 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 Fasteners shall be installed with a ¹/₂" (12.7 mm), low rpm/high torque electric drill (450 rpm).
- 9.4 Fasteners shall be installed with manufacturer-supplied bits.
- 9.5 Fasteners shall be installed with the underside of the head flush to the surface of the wood member. Fasteners shall not be overdriven.
- 9.6 Fasteners shall not be struck with a hammer during installation.
- 9.7 Lead holes are not required but may be used where lumber is prone to splitting.
- 9.8 Installer shall use appropriate/required personal protection equipment during installation and must not place fastener in mouth.

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 Properties for CAMO® 5/16" Structural Series Screws from Report Number 2102-01.
- 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 pertinent, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability, and safety.
- 10.4 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, or <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.





- 10.5 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.xxxiii
- 10.6 Where additional condition of use and/or regulatory compliance information is required, please search for CAMO® 5/16" Structural Series Screws on the DrJ Certification website.

11 Findings

- 11.1 As outlined in Section **6**, CAMO® ⁵/₁₆" Structural Series Screws have performance characteristics that were tested and/or meet applicable regulations and are suitable for use pursuant to its specified purpose.
- 11.2 When used and installed in accordance with this duly authenticated report and the manufacturer installation instructions, CAMO® 5/16" Structural Series Screws shall be approved for the following applications:
 - 11.2.1 To provide multi-ply attachment in trusses, sawn lumber, and SCL assemblies.
- 11.3 Unless exempt by state statute, when CAMO® 5/16" Structural Series Screws are to be used as a structural and/or building envelope component in the design of a specific building, the design shall be performed by an RDP.
- 11.4 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from National Nail® Corporation dba CAMO®.
- 11.5 IBC Section 104.11 (IRC Section R104.11 and IFC Section 104.10 xxix 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:XXX Building regulations require that the building official shall accept Duly Authenticated Reports.XXXI
 - 11.6.1 An approved agency is "approved" when it is ANAB ISO/IEC 17065 accredited.
 - 11.6.2 An approved source is "approved" when an RDP is properly licensed to transact engineering commerce.
 - 11.6.3 Federal law, <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 RDPs 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. xxxii

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 Moisture content shall be less than or equal to nineteen percent (19%) for sawn lumber and less than sixteen percent (16%) for SCL products.





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- 12.4 Use of fasteners in locations exposed to saltwater or saltwater spray is outside the scope of this evaluation report.
- 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 This innovative product has an internal quality control program and a third-party quality assurance program.
 - 12.5.4 At a minimum, this innovative product shall be installed per Section 9 of this report.
 - 12.5.5 The review of this report by the AHJ shall comply with IBC Section 104 and IBC Section 105.4.
 - 12.5.6 This innovative product has an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.4, IBC Section 1703, IRC Section R104.4, and IRC Section R104.4, and IRC Section R109.2.
 - 12.5.7 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 <u>IBC Section</u> 110.3, <u>IRC Section R109.2</u>, 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 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 IBC Section 105.4.
- 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., <u>owner</u> or RDP).
- 12.8 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.camofasteners.com or www.nationalnail.com.

14 Review Schedule

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

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

15.1 CAMO® ⁵/₁₆" Structural Series Screws are 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.





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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, and
 - 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 why the alternative was not approved</u>, 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), xxxiii where providing test reports, engineering analysis and/or other related IP/TS is subject to <u>prison of not more than ten years</u> xxxiv and/or a \$5,000,000 fine or 3 times the value of xxxv 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 <u>Listings</u>, <u>certified reports</u>, <u>Technical Evaluation Reports</u>, <u>duly authenticated reports</u>, <u>and/or research reports</u> prepared by <u>approved agencies</u> and/or <u>approved sources</u>.
 - 1.2.4 For <u>new materials</u> that are not specifically provided for in any regulation, the <u>design strengths and</u> <u>permissible stresses</u> shall be established by <u>tests</u>, where <u>suitable load tests simulate the actual loads and</u> conditions of application that occur.
 - 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. **xxxviii*
 - 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 <u>IBC Section 104.11</u>.xxxviii





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- 1.3 Approved xxxix 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.xii
- 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 approved agency shall be deemed^{xiii} an approved testing agency via ISO/IEC 17025 accreditation, an approved inspection agency via ISO/IEC 17020 accreditation, and an approved product evaluation agency via ISO/IEC 17065 accreditation. 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 agreement^{xiiii} (i.e., ANAB, International Accreditation Forum [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,





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- 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 <u>553.842</u> and <u>553.8425</u>.
- 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>, xiiv 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 (N.J.A.C. 5:23)". xiv 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 xlvi and Part 3280, xlvii 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."





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- 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> stresses shall be established by tests. xlviii
 - 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.^{xiix}
 - 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 <u>ANAB directory</u>.
 - 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.¹
 - 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 source</u>.^{li}
- 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.^{|ii}
 - 1.11.4 Therefore, all ANAB ISO/IEC 17065 Duly Authenticated Reports are approval equivalent.
- 1.12 Approval equity is a fundamental commercial and legal principle. liv





Issue Date: July 20, 2022

Subject to Renewal: 10/01/24

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Subject to Renewal: October 1, 2024

FBC Supplement to Report Number 2102-04

REPORT HOLDER: National Nail® Corporation dba CAMO®

1 Evaluation Subject

1.1 CAMO® 5/16" Structural Series Screws

2 Purpose and Scope

- 2.1 Purpose
 - 2.1.1 The purpose of this Report Supplement is to show, CAMO® ⁵/₁₆" Structural Series Screws recognized in Report Number 2102-04, have 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 (FL 41741)
 - 2.2.2 FBC-R—20, 23: Florida Building Code Residential (FL 41741)

3 Conclusions

- 3.1 CAMO® ⁵/₁₆" Structural Series Screws, described in Report Number 2102-04, comply with the FBC-B and FBC-R and are 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 2304.10.5 replaces IBC Section 2304.10.6.

4 Conditions of Use

- 4.1 CAMO® ⁵/₁₆" Structural Series Screws, described in Report Number 2102-04, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in Report Number 2102-04.
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of FBC-B Chapter 16 and Chapter 17, as applicable.





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Notes

- For more information, visit dricertification.org or call us at 608-310-6748.
- 2018 IBC Section 2304.10.5
- 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
- v 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. <a href="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
- vii 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
- ix https://up.codes/viewer/wyoming/ibc-2021/chapter/2/definitions#approved_agency
- x 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.
- xii 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/
- xiii https://www.cbitest.com/accreditation/
- 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=lf%20the%20application%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
- **i https://up.codes/viewer/colorado/ibc-2021/chapter/17/special-inspections-and-tests#1707.1:~:text=the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20 quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%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%20af%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.
- xii All references to the FBC-B and FBC-R are the same as the 2021 IBC and 2021 IRC unless otherwise noted in the Florida Supplement at the end of this report.
- All references to the LABC and LARC are the same as the 2018 IBC and 2018 IRC respectively, unless otherwise noted in the 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%20livable%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%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>.
- xxviii See Code of Federal Regulations (CFR) <u>Title 24 Subtitle B Chapter XX Part 3280</u> for definition.
- xxix 2018 IFC Section 104.9





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- 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
- Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.
- xxxiii http://www.drjengineering.org/AppendixC AND https://www.drjcertification.org/comell-2016-protection-trade-secrets
- xxxiv 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
- xxxvii IBC 2021, Section 1706.1 Conformance to Standards
- xxxviii IBC 2021, Section 1707 Alternative Test Procedure, 1707.1 General
- xxxix See Section 11 for the distilled building code definition of Approved
- ^{xl} 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
- xlv 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
- xlvii https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280
- xiviii IBC 2021, Section 1706 Design Strengths of Materials, 1706.2 New Materials. Adopted law pursuant to IBC model code language 1706.2.
- xiix IBC 2021, Section 1707 Alternative Test Procedure, 1707.1 General. Adopted law pursuant to IBC model code language 1707.1.
- 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/
- IBC 2021, Section 1706 Design Strengths of Materials, Section 1706.1 Conformance to Standards Adopted law pursuant to IBC model code language 1706.1.
- 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