



Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 2605-117



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SaberDrive Platinum™ Properties

Trade Secret Report Holder:

Midwest® Fastener Corporation

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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

1 Innovative Products Evaluated¹

1.1 SaberDrive Platinum Screws:

- 1.1.1 Construction Lag Screws, Carbon Steel: $\frac{1}{4}$ ", $\frac{5}{16}$ ", and $\frac{3}{8}$ "
- 1.1.2 Construction Lag Screws, Type 305 Stainless Steel: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.3 Construction Lag Screws, Type 316 Stainless Steel: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.4 Construction Timber Screws: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.5 Ledger Board Screw: $\frac{3}{8}$ "
- 1.1.6 Hex Head Construction Lag Screws: $\frac{5}{16}$ " and $\frac{3}{8}$ "
- 1.1.7 Structural Screws: $\frac{5}{16}$ " and $\frac{3}{8}$ "
- 1.1.8 Deck Screws: #9, #10, and #12
- 1.1.9 Truss Head Wood Screws: #10 and #12

2 Product Description and Materials

2.1 The innovative products evaluated in this report are shown in **Figure 1**. SaberDrive Platinum Screws are proprietary, partially threaded dowel-type fasteners with serrated lead threads.



Figure 1. SaberDrive Platinum Screws

2.1.1 Construction Lag Screw:

- 2.1.1.1 Truss head, star-drive recess, Type 17 point; Carbon Steel with tan or green XL1500 coating, or Type 305/316 Stainless Steel.

2.1.2 Construction Timber Screw:

- 2.1.2.1 Hex washer head with tapered underside and Type 17 point; Carbon Steel with tan or green XL1500 coating.

2.1.3 Ledger Board Screw:

- 2.1.3.1 Hex washer head with tapered underside and Type 17 point; Carbon Steel with tan XL1500 coating.

2.1.4 Hex Head Construction Lag Screw:

- 2.1.4.1 Hex washer head with tapered underside and Type 17 point; Carbon Steel with tan XL1500 coating.

2.1.5 Structural Screw:

- 2.1.5.1 Flat head, proprietary star-drive recess, Type 17 point, and reamer knurl; black or tan XL1500 coating.

2.1.6 Deck Screw:

- 2.1.6.1 Countersunk head with milling pockets, star-drive recess, twisted non-circular threaded shank, and sharp point; tan XL2500 coating.

2.1.7 Truss Head Wood Screw:

- 2.1.7.1 Truss head, star-drive recess, reamer knurl, and Type 17 point; tan XL1500 coating.



2.2 Material

- 2.2.1 The coated Carbon Steel screws are manufactured from Grade 10B21 Carbon Steel wire and are heat-treated to achieve the case and core hardness specified by the manufacturer.
 - 2.2.1.1 Other than the Deck Screws, the carbon-steel screws use the proprietary multilayer XL1500 coating.
 - 2.2.1.2 Deck Screws use the proprietary multilayer XL2500 coating.
- 2.2.2 Stainless Steel Construction Lag Screws are manufactured from Type 305 or Type 316 Stainless Steel wire.

2.3 Corrosion Resistance

- 2.3.1 SaberDrive Platinum Carbon Steel coated screws have been evaluated for use in Southern Pine wood treated with MCA preservatives at a retention of 0.15-pcf (2.4 kg/m³) in accordance with ASTM G85. The proprietary coating system meets, or exceeds, the corrosion protection of hot-dipped galvanizing per ASTM A153, in accordance with IBC Section 2304.10.6² and IRC Section R304.3,³ subject to the limitations of **Section 12**.
 - 2.3.1.1 Stainless Steel Construction Lag Screws may be used where Stainless Steel fasteners are prescribed in IBC Section 2304.10.6⁴ and IRC Section R304.3.⁵

2.4 Wood Members

- 2.4.1 Sawn lumber used for connection design shall have an assigned Specific Gravity (SG) of not less than 0.42, determined in accordance with the NDS. Unless otherwise noted, sawn lumber moisture content shall not exceed 19 percent (19%).
 - 2.4.1.1 Structural glued-laminated timber shall use the Specific Gravity for Fastener Design identified in the NDS Supplement. Unless otherwise noted, glulam moisture content shall be less than 16 percent (16%).
 - 2.4.1.2 For screws installed into the face of cross-laminated timber panels, all laminations shall satisfy the minimum assigned SG used for the applicable tabulated value, and moisture content shall be less than 16 percent (16%).
 - 2.4.1.3 Structural Composite Lumber (SCL), such as Laminated Veneer Lumber (LVL), Parallel Strand Lumber (PSL), and Laminated Strand Lumber (LSL) conforming to ASTM D5456 may be used where the SCL product has published equivalent specific gravities for the connection performance and load direction.
 - 2.4.1.4 Where the connection design values in this report are used for SCL, the published equivalent SG for the SCL product shall equal to or exceed the minimum SG applicable to the selected tabulated value.
 - 2.4.1.4.1 The SCL manufacturer requirements for fastener installation, member thickness, edge distance, end distance, spacing, and moisture condition shall also be satisfied.
- 2.4.2 For wood-to-wood connections, the tabulated side-member thickness is an absolute value. The main-member thickness shall be at least the screw length minus the side-member thickness.

2.5 Fastener Specifications

- 2.5.1 **Table 1** lists the dimensions and mechanical properties of SaberDrive Platinum Screws that are evaluated in this report.



Table 1. SaberDrive Platinum Screws Specifications

Fastener		Fastener Size	“Across Flats” Dimension or Drive Size							Bending Yield Strength, ³ F _y (psi)	Allowable Fastener Strength ⁵ (lb)	
				Overall	Thread	Major	Minor	Shank	Head		Tensile	Shear
Construction Lag	Carbon Steel	1/4"	T30	1½"	1⅜"	0.234	0.148	0.174	0.557	- ⁽⁴⁾	1,140	1,105
				2"	1⅜"							
				3"	2⅜"					231,000		
				4"	2⅜"							
				5"	2¾"							
				6"	2¾"							
		5/16"	T30	2½"	1½"	0.276	0.167	0.197	0.620	231,000	1,275	1,285
				3"	2⅜"							
				3½"	2⅜"							
				4"	2⅜"							
				5"	2¾"							
				6"	2¾"							
				8"	3¾"							
		¾"	T40	6"	3⅛"	0.315	0.203	0.227	0.827	211,000	1,910	1,550
				8"	3⅛"							
				10"	3⅛"							
				12"	3⅛"							
				14"	3⅛"							
	Type 305 Stainless Steel	1/4"	T30	1½"	1⅜"	0.234	0.148	0.174	0.557	112,000	670	-
				2"	1⅜"							
		5/16"	T30	2½"	1½"	0.276	0.167	0.197	0.620	103,000	835	-
				3"	2⅜"							
				3½"	2⅜"							
				4"	2⅜"							
				5"	2¾"							
				6"	2¾"							
				8"	3¾"							



Table 1. SaberDrive Platinum Screws Specifications

Fastener		Fastener Size	“Across Flats” Dimension or Drive Size							Bending Yield Strength, ³ F _y (psi)	Allowable Fastener Strength ⁵ (lb)			
				Overall	Thread	Major	Minor	Shank	Head		Tensile	Shear		
Construction Lag - Continued	Type 316 Stainless Steel	1/4"	T30	1½"	1⅜"	0.234	0.148	0.174	0.557	110,000	620	-		
				2"	1⅜"									
		5/16"	T30	2½"	1½"	0.276	0.167	0.197	0.620	106,000	785	-		
				3"	2⅜"									
				4"	2⅜"									
				5"	2¾"									
				6"	2¾"									
		Construction Timber	Construction Timber	1/4"	5/16"	1½"	1⅜"	0.276	0.167	0.197	0.484	- ⁽⁴⁾	1,275	1,285
						2"	1⅜"							
						4"	2⅜"							
6"	2¾"													
8"	3¾"													
10"	3¾"													
5/16"	5/16"			12"	3¾"	0.297	0.183	0.205	0.541	265,000	1,275	1,285		
				14"	3¾"									
Ledger Board	Ledger Board			3/8"	5/16"	3⅝"	2⅜"	0.315	0.203	0.228	0.618	211,000	1,910	1,550
						4"	2⅜"							
		5"	3⅛"											
		6"	3⅛"											
		8"	3¾"											
		10"	3¾"											
		12"	3¾"											
		14"	3¾"											
Hex Head Construction Lag	Hex Head Construction Lag	5/16"	5/16"	1½"	1⅜"	0.276	0.167	0.197	0.523	- ⁽⁴⁾	1,275	1,285		
		3/8"	5/16"	2"	1⅜"	0.315	0.203	0.228	0.618	211,000	1,910	1,550		
				2½"	1½"									
				3"	2⅜"									



Table 1. SaberDrive Platinum Screws Specifications

Fastener	Fastener Size	"Across Flats" Dimension or Drive Size							Bending Yield Strength, ³ F _y (psi)	Allowable Fastener Strength ⁵ (lb)	
			Overall	Thread	Major	Minor	Shank	Head		Tensile	Shear
Structural	5/16"	T30	2 7/8"	1 1/2"	0.276	0.167	0.197	0.748	277,000	1,275	1,285
			3 3/4"	2 3/8"							
			4 1/2"	2 3/8"							
			5"	2 3/4"							
			6"	2 3/4"							
			8"	3 3/4"							
	3/8"	T40	2 7/8"	1 1/2"	0.315	0.203	0.227	0.906	274,000	1,910	1,550
			3 3/4"	2 3/8"							
			4 1/2"	2 3/8"							
			5"	2 3/4"							
			6"	2 3/4"							
			8"	3 3/4"							
			10"	3 3/4"							
Deck Screw	#9	T25	1 1/4"	3/4"	0.181	0.124 ⁽⁷⁾	0.136	0.360	132,000 ⁽⁶⁾	740	-
			1 1/2"	1"							
			1 3/4"	1 1/8"							
			2"	1 1/8"							
			2 1/2"	1 1/2"							
			3"	1 1/2"							
	#10	T25	3"	2"	0.201	0.140 ⁽⁷⁾	0.152	0.388	149,000 ⁽⁶⁾	840	-
			3 1/2"	2"							
			4"	2 3/8"							
	#12	T25	3 1/2"	2"	0.238	0.159 ⁽⁷⁾	0.171	0.439	132,000 ⁽⁶⁾	1,055	-
			4"	2 3/8"							
Truss Head Wood Screw	#10	T25	2 1/2"	1 1/2"	0.193	0.128	0.143	0.455	275,000	735	-
			3"	2"							
	#12	T30	3 1/2"	2"	0.234	0.144	0.175	0.557	243,000	1,090	-
			4"	2 3/8"							



Table 1. SaberDrive Platinum Screws Specifications

Fastener	Fastener Size	“Across Flats” Dimension or Drive Size							Bending Yield Strength, ³ F _y (psi)	Allowable Fastener Strength ⁵ (lb)	
			Overall	Thread	Major	Minor	Shank	Head		Tensile	Shear
SI: 1 in = 25.4 mm, 1 lb = 4.45 N, 1-psi = 0.00689 MPa 1. Fastener length is measured from the underside of the head to the tip. 2. Thread length includes tapered tip (see Figure 1). 3. Bending yield strength, F_y, is determined in accordance with ASTM F1575 using minor thread diameter when fastener is tested in the threaded section. 4. Due to short screw length, bending yield strength has not been determined. Strength is controlled on the basis of tensile strength. 5. Allowable tensile strength and shear strength, where applicable, evaluated within the threaded region. 6. Deck screws do not have a uniform cross section. Bending yield strength was determined in accordance with ASTM F1575 using the tabulated minor diameter as the effective diameter. 7. Screw cross section at the threads is not circular. Dimension shown is at the widest point.											

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

3 Definitions⁶

- 3.1 New Materials⁷ 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.⁸ The design strength and permissible stresses shall be established by tests⁹ and/or engineering analysis.¹⁰
- 3.2 Duly authenticated reports¹¹ and research reports¹² are test reports and related engineering evaluations that are written by an approved agency¹³ and/or an approved source.¹⁴
- 3.2.1 This report utilizes intellectual property and/or trade secrets to create public domain material properties for commercial end-use.
- 3.2.1.1 This report protects confidential Intellectual Property and trade secrets under the regulation, 18.U.S.Code.90, also known as Defend Trade Secrets Act of 2016 (DTSA).¹⁵
- 3.3 An approved agency is "approved" when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is accredited and listed in the ANAB directory.
- 3.4 An approved source is "approved" when a professional engineer (i.e., Registered Design Professional, hereinafter RDP) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.¹⁶
- 3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an ISO/IEC 17025 accredited testing laboratory, an ISO/IEC 17020 accredited inspection body, and/or a licensed RDP.
- 3.5.1 The Center for Building Innovation (CBI) is ANAB¹⁷ ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall enforce¹⁸ 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 writing¹⁹ stating the nonconformance and the path to its cure.
- 3.7 The regulatory authority shall accept duly authenticated reports from an approved agency and/or an approved source with respect to the quality and manner of use of new materials or assemblies as provided for in regulations regarding the use of alternative materials, designs, or methods of construction.²⁰
- 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.²¹ Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,²² 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.²³



4 Applicable Local, State, and Federal Approvals; Standards; Regulations²⁴

4.1 Local, State, and Federal

- 4.1.1 Approved in all local jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured local jurisdictions: Austin, Baltimore, Broward County, Chicago, Clark County, Dade County, Dallas, Detroit, Denver, DuPage County, Fort Worth, Houston, Kansas City, King County, Knoxville, Las Vegas, Los Angeles City, Los Angeles County, Miami, Nashville, New York City, Omaha, Philadelphia, Phoenix, Portland, San Antonio, San Diego, San Jose, San Francisco, Seattle, Sioux Falls, South Holland, St. Louis County, Texas Department of Insurance, and Wichita.²⁵
- 4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured states: California, Florida, New Jersey, Oregon, New York, Texas, Washington, and Wisconsin.²⁶
- 4.1.3 Approved by the Code of Federal Regulations Manufactured Home Construction: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14²⁷ and Part 3280²⁸ 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 Regulations

- 4.2.1 *IBC – 18, 21, 24: International Building Code®*
- 4.2.2 *IRC – 18, 21, 24: International Residential Code®*
- 4.2.3 *FBC-B – 20, 23: Florida Building Code²⁹ – Building*
- 4.2.4 *FBC-R – 20, 23: Florida Building Code²⁹ – Residential*
- 4.2.5 *CBC – 22, 25: California Building Code³⁰ (Title 24, Part 2)*
- 4.2.6 *CRC – 22, 25: California Residential Code³⁰ (Title 24, Part 2.5)*

4.3 Standards

- 4.3.1 *AISI S904: Test Standard for Determining the Tensile and Shear Strengths of Steel Screws*
- 4.3.2 *ANSI/AWC NDS: National Design Specification (NDS) for Wood Construction*
- 4.3.3 *ASTM A153: Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware*
- 4.3.4 *ASTM D1761: Standard Test Methods for Mechanical Fasteners in Wood*
- 4.3.5 *ASTM F1575: Standard Test Method for Determining Bending Yield Moment of Nails, Spikes, and Dowel-Type Threaded Fasteners*
- 4.3.6 *ASTM G85: Standard Practice for Modified Salt Spray (Fog) Testing*

5 Listed³¹

- 5.1 Equipment, materials, products, or services included in a List published by a nationally recognized testing laboratory (e.g., CBI), an approved agency (e.g., CBI and DrJ), and/or an approved source (e.g., DrJ), or other organization(s) concerned with product evaluation (e.g., DrJ), that maintains periodic inspection (e.g., 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 General

- 6.1.1 SaberDrive Platinum Screws are alternate dowel-type, multi-purpose screws used in engineered wood-to-wood connection applications under the IBC. The screws may be used under the IRC when an engineered design is submitted in accordance with [IRC Section R301.1](#). These screws provide resistance against withdrawal, head pull-through, axial, and shear loads. See **Section 9** for installation requirements.
 - 6.1.1.1 Wood structural framing members may be solid sawn lumber, structural glued-laminated timber conforming to ANSI A190.1, cross-laminated timber conforming to ANSI PRG 320, or SCL conforming to ASTM D5456.
 - 6.1.1.2 Where connection property values for SCL are listed, SCL shall have a published equivalent specific gravity meeting the minimum specified value in the respective table. Refer to the SCL manufacturer for the details. See **Section 9** for installation requirements.
 - 6.1.1.2.1 Where the published specific gravity falls between tabulated values, the value corresponding to the lower specific gravity category shall be used.
- 6.1.2 SaberDrive Platinum Screws shall be installed in accordance with the applicable lead-hole provision/requirements detailed in [NDS Chapter 12](#) and this report. Lead holes are not required where installation without lead holes is permitted by the [NDS](#).

6.2 Design

- 6.2.1 Design of SaberDrive Platinum Screws is governed by the applicable code and the provisions for dowel-type fasteners in [NDS](#).
 - 6.2.1.1 For a single screw in axial tension, the allowable connection load is the least of the screw allowable tension strength in **Table 1**, the adjusted withdrawal value from **Table 3** multiplied by effective thread penetration, and the adjusted head pull-through value from **Table 3**.
 - 6.2.1.2 For a single screw subject to lateral load, the allowable connection load is the lesser of the screw allowable shear strength in **Table 1** and the adjusted reference lateral design value in **Table 2**.
 - 6.2.1.3 Reference design values shall be adjusted in accordance with the [NDS](#) provisions for dowel-type fasteners and screws. Tabulated values in **Section 6** are limited to dry-service conditions, such that $C_M = 1.0$.
 - 6.2.1.3.1 For wet-service use, the allowable properties herein shall be adjusted in accordance with [NDS Table 11.3.3](#).
 - 6.2.1.4 When fastener steel strength controls, [NDS](#) wood-property adjustment factors do not increase the allowable connection strength.
 - 6.2.1.5 Connections with multiple screws shall be designed in accordance with the [NDS](#) provisions for multiple-fastener connections and group action.
 - 6.2.1.6 Combined lateral and withdrawal loading shall be evaluated in accordance with the [NDS](#) interaction provisions for screws.
 - 6.2.1.7 Wood members shall be checked for local stresses, net section, row tear-out, group tear-out, and other applicable limit states, including [NDS Appendix E](#).
- 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 SaberDrive Platinum Screws Reference Lateral Design Values

6.3.1 Reference lateral design values for shear load parallel to grain using SaberDrive Platinum Screws are specified in **Table 2**.

6.3.1.1 Values in **Table 2** are based on the assumption that the main member and the side member are of the same wood species or same product (i.e., SCL from the same manufacturer) and fasteners are installed through the wide face of the dimensional lumber.

Table 2. SaberDrive Platinum Screws Reference Lateral Design Values^{1,2,3} (Z) – Face Grain

Product	Fastener Size	Fastener Length (in)	Minimum Side Member Thickness (in)	Main Member Penetration (in)	Lateral Design Values (lb) by Species (Specific Gravity) and Load Orientation	
					0.42 ≤ SG < 0.49	0.49 ≤ SG
Construction Lag (Carbon Steel)	1/4"	2"	3/4"	1 1/4"	180 ⁽⁴⁾	215 ⁽⁴⁾
	5/16"	2 1/2"	3/4"	1 3/4"	225 ⁽⁴⁾	235 ⁽⁴⁾
	3/8"	6"	3/4"	5 1/4"	260 ⁽⁴⁾	260 ⁽⁴⁾
Construction Lag (Type 305 SS)	1/4"	2"	3/4"	1 1/4"	135	185
	5/16"	2 1/2"	3/4"	1 3/4"	135	185
Construction Lag (Type 316 SS)	1/4"	2"	3/4"	1 1/4"	170	215
	5/16"	2 1/2"	3/4"	1 3/4"	170	215
Construction Timber	1/4"	4"	3/4"	3 1/4"	220 ⁽⁴⁾	230 ⁽⁴⁾
	5/16"	12"	3/4"	11 1/4"	220 ⁽⁴⁾	230 ⁽⁴⁾
Ledger Board	3/8"	3 5/8"	3/4"	2 7/8"	260 ⁽⁴⁾	260 ⁽⁴⁾
Hex Head Construction Lag	3/8"	2"	3/4"	1 3/4"	175 ⁽⁴⁾	175 ⁽⁴⁾
Structural	5/16"	2 7/8"	3/4"	2 1/8"	255 ⁽⁴⁾	310 ⁽⁴⁾
	3/8"	2 7/8"	1 1/2"	1 3/8"	260	260
Deck Screw	#9	2"	3/4"	1 1/4"	150	155
		3"	1 1/2"	1 1/2"	180	255
	#10	3"	1 1/2"	1 1/2"	150	285
	#12	3 1/2"	1 1/2"	2"	215	215
Truss Head Wood Screw	#10	3"	1 1/2"	1 1/2"	170	220
	#12	3 1/2"	1 1/2"	2"	210	300

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

1. HF = Hemlock-Fir, SPF = Spruce-Pine-Fir, DF = Douglas Fir, SP = Southern Pine
2. Reference lateral design values apply to two-member single shear connections where both members are of the same specific gravity and the fastener is oriented perpendicular to grain. Where the members are of different specific gravities, use the lower of the two.
3. Values shall be adjusted by all applicable adjustment factors per the NDS.
4. The wood main-member thickness must be equal to or greater than the screw length minus the thickness of the wood side member.
5. Pilot holes shall be provided in the main and side members with diameters equal to 70 percent (70%) of the screw root diameter.



6.4 SaberDrive Platinum Screws Reference Withdrawal Design Values (W)

6.4.1 SaberDrive Platinum Screws (Wood):

- 6.4.1.1 Unless otherwise noted in this report, design provisions for withdrawal noted in [NDS Table 12.2B](#) apply to SaberDrive Platinum Screws.
- 6.4.1.2 Reference withdrawal design values for SaberDrive Platinum Screws in select lumber species are specified in **Table 3**.

Table 3. SaberDrive Platinum Screws Reference Withdrawal (W) and Head-Pull-Through (WH) Design Values in Side Grain Applications^{1,2}

Product Name	Fastener Size	Minimum Embedded Thread Length (in)	Withdrawal (W) (lb/in)		Nominal Head Diameter (in)	Side Member Thickness (in)	Head Pull-Through (WH) (lb)	
			$0.42 \leq SG < 0.49$	$0.49 \leq SG$			$0.42 \leq SG < 0.49$	$0.49 \leq SG$
Construction Lag	1/4"	1 3/16"	115	160	0.557	3/4"	210	210
	5/16"	1 1/2"	155	185	0.620	3/4"	210	210
	3/8"	3 1/8"	185	265	0.827	3/4"	370	460
Construction Timber	1/4"	2 3/8"	115	160	0.484	3/4"	265	315
	5/16"	3 3/4"	155	185	0.541	3/4"	265	315
Ledger Board	3/8"	2 3/8"	185	265	0.618	3/4"	170	215
Hex Head Construction Lag	5/16"	1 1/2"	155	155	0.523	3/4"	150	215
	3/8"	1 3/16"	155	155	0.618	3/4"	170	215
Structural	5/16"	1 1/2"	155	185	0.748	3/4"	280	280
	3/8"	1 1/2"	185	265	0.906	1 1/2"	650	850
Deck Screw	#9	3/4"	135	135	0.360	3/4"	100	130
		1 1/2"	150	150				
	#10	2"	195	195	0.388	3/4"	135	215
	#12	2"	215	245	0.439	3/4"	170	260
Truss Head Wood Screw	#10	2"	170	225	0.455	3/4"	180	280
	#12	2"	180	280	0.557	3/4"	290	290

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

- Values shall be adjusted by all applicable adjustment factors per [NDS Section 11.3](#) for wood screws.
- Fastener penetration is the threaded length embedded in the main member, including the tip.

- 6.5 Alternative techniques shall be permitted in accordance with accepted engineering practice and experience. These provisions for the use of alternative materials, designs, and methods of construction are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed herein. This includes, but is not limited to, the following areas of engineering: mechanics of materials, structures, building science, and fire science.



7 Certified Performance³²

- 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.³³
- 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.³⁴

8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 SaberDrive Platinum Screws comply with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:
 - 8.1.1 Structural screw properties were tested and wood-connection reference design values were established using nationally recognized test methods and accepted engineering principles.
 - 8.1.2 Connection design requires consideration of fastener steel strength, withdrawal, pull-through, lateral yield, wood-member capacity, multiple-fastener effects, and combined loading.
 - 8.1.3 SaberDrive Platinum carbon steel coated screws have been evaluated for corrosion resistance in accordance with ASTM G85 for use in Southern Pine treated with MCA preservatives at a retention of 0.15-pcf (2.4 kg/m³).
 - 8.1.3.1 Stainless-steel Construction Lag Screws may be used where the applicable code prescribes stainless-steel fasteners.
 - 8.1.4 Installation requirements establish screw orientation, penetration, spacing, end and edge distances, pilot-hole use, head bearing, and controls against splitting and overdriving.
- 8.2 Any building code, regulation and/or accepted engineering evaluations (e.g., 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 qualified³⁵ to practice product and regulatory compliance services within its scope of accreditation and engineering expertise,³⁶ respectively.
- 8.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise, which is also its areas of professional engineering competence.

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 *Installation Procedure*
 - 9.3.1 SaberDrive Platinum Screws shall be installed perpendicular to the face of the wood member using a high-torque, low-speed drill in accordance with the manufacturer installation instructions.
 - 9.3.2 The fasteners shall be installed using the appropriate drive bit or socket specified for the applicable screw type and size in **Table 1**.
 - 9.3.2.1 The underside of the fastener head or integral washer shall bear against the surface of the wood side member, except for SaberDrive Platinum Deck Screws, which shall be installed with the head flush with the wood surface.
 - 9.3.2.2 Screws shall not be overdriven.



9.3.3 Pilot holes shall be used where required by **Table 2**.

9.3.3.1 Pilot holes shall be provided in the main and side members with diameters equal to 70 percent (70%) of the screw root diameter.

9.3.4 Fastener spacing, edge distance, and end distance shall be per **Table 4**.

Table 4. Fastener Spacing Requirements for SaberDrive Platinum Screws - Wood-Side Member^{2,3}

Geometry	Loading Condition	G < 0.50	G ≥ 0.50
End Distance	Tension Loading Parallel to Grain (Bearing Toward End)	15D ¹	20D
	Compression Loading Parallel to Grain (Bearing Away from End)	10D	15D
	Loading Perpendicular to Grain	10D	15D
	Axial Loading (Withdrawal or Pull-Through)	10D	10D
Edge Distance	Loading Parallel to Grain	5D	7D
	Loading Perpendicular to Grain - Load Toward Edge	10D	12D
	Loading Perpendicular to Grain - Load Away from Edge	5D	7D
	Axial Loading	4D	4D
Spacing in a Row (Parallel to Main-Member Grain)	Loading Parallel to Grain	15D	15D
	Loading Perpendicular to Grain	12D	15D
	Axial Loading	7D	7D
Spacing Between Rows (Perpendicular to Main-Member Grain)	Lateral Loading - In-Line Rows	5D	7D
	Lateral Loading - Staggered Rows	2.5D	3D
	Axial Loading	4D	4D

SI: 1 in = 25.4 mm

- "D" refers to the outside thread diameter.
- 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 more restrictive.
- Values for "Spacing between Rows of Fasteners-Staggered" apply where the screws in adjacent rows are offset by one-half of the "Spacing between Fasteners in a Row".

9.3.5 Minimum penetration is 1", unless otherwise specified in 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 Bending yield testing in accordance with ASTM F1575
- 10.1.2 Tensile strength testing in accordance with AISI S904
- 10.1.3 Shear strength testing in accordance with AISI S904
- 10.1.4 Lateral strength testing in accordance with ASTM D1761
- 10.1.5 Withdrawal strength testing in accordance with ASTM D1761



- 10.1.6 Head pull-through strength testing in accordance with ASTM D1761
- 10.1.7 Corrosion resistance testing in accordance with ASTM G85
- 10.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDP. 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 duly authenticated reports from approved agencies and/or approved sources provided by the supplier. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ's engineering practice, as contained in this duly authenticated report, may be dependent upon published design properties by others.
- 10.5 *Testing and Engineering Analysis*
 - 10.5.1 The strength, rigidity, and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.³⁷
- 10.6 Where additional condition of use and/or regulatory compliance information is required, please search for SaberDrive Platinum Screws on the DrJ Certification website.

11 Findings

- 11.1 As outlined in **Section 6**, SaberDrive Platinum Screws 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 duly authenticated report and the manufacturer installation instructions, SaberDrive Platinum Screws shall be approved for the following applications:
 - 11.2.1 Use as alternate dowel-type threaded fasteners under the IBC and IRC.
- 11.3 Unless exempt by state statute, when SaberDrive Platinum 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 Midwest Fastener Corporation.
- 11.5 IBC Section 104.2.3³⁸ (IRC Section R104.2.2³⁹ and IFC Section 104.2.3⁴⁰ 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.



- 11.6 **Approved:**⁴¹ Building regulations require that the building official shall accept duly authenticated reports.⁴²
- 11.6.1 An approved agency is “*approved*” when it is ANAB ISO/IEC 17065 accredited.
 - 11.6.2 An approved source is “*approved*” when an RDP is properly licensed to transact engineering commerce.
 - 11.6.3 Federal law, Title 18 US Code Section 242, requires that, where the alternative product, material, service, design, assembly, and/or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved. Denial without written reason deprives a protected right to free and fair competition in the marketplace.
- 11.7 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.
- 11.8 Through the IAF Multilateral Arrangement (MLA), this duly authenticated report can be used to obtain product approval in any jurisdiction or country because all ANAB ISO/IEC 17065 duly authenticated reports are equivalent.⁴³

12 Conditions of Use

- 12.1 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.
- 12.2 As listed herein, SaberDrive Platinum Screws shall be subject to the following conditions:
- 12.2.1 Design loads are limited to the available connection strengths determined from **Section 6** after application of all applicable NDS adjustment factors and limit-state checks, where applicable.
 - 12.2.2 Tabulated values in **Section 6** are limited to dry-service conditions as defined by the NDS.
 - 12.2.2.1 For wet-service use, the allowable properties in **Section 6** shall be adjusted in accordance with NDS Table 11.3.3.
 - 12.2.3 Coated Carbon Steel screws may be used in chemically treated wood where the equilibrium moisture content of the wood satisfies the NDS dry-service conditions.
 - 12.2.3.1 The coated Carbon Steel screws may also be used in applications involving freshwater or chemically treated wood exposure.
 - 12.2.3.2 Use of Carbon Steel coated screws in locations exposed to saltwater or saltwater spray is outside the scope of this report.
 - 12.2.4 Stainless Steel Construction Lag Screws are permitted to be used where stainless steel fasteners are prescribed by IBC Section 2304.10.6⁴⁴ and IRC Section R304.3.⁴⁵
- 12.3 When required by adopted legislation and enforced by the building official, also known as the Authority Having Jurisdiction (AHJ) in which the project is to be constructed:
- 12.3.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.
 - 12.3.2 This report and the installation instructions shall be submitted at the time of permit application.
 - 12.3.3 At a minimum, these innovative products shall be installed per **Section 9**.
 - 12.3.4 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.
 - 12.3.5 These innovative products have an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.7.2, IBC Section 110.4, IBC Section 1703, IRC Section R104.7.2, and IRC Section R109.2.
 - 12.3.6 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 IBC Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.



- 12.4 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *“the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.2.3”*, all of IBC Section 104, and IBC Section 105.3.
- 12.5 Design loads shall be determined in accordance with the regulations adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner or RDP).
- 12.6 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 SaberDrive Platinum Screws, as listed in **Section 1.1**, 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 www.fastenerconnection.com/brand/saberdrive.

14 Review Schedule

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



Issue Date: August 28, 2026
Supplement Revision Date: August 28, 2026
Subject to Renewal: October 1, 2027

FBC Supplement to Report Number 2605-117

REPORT HOLDER: Midwest® Fastener Corporation

1 Evaluation Subject

1.1 SaberDrive Platinum Screws:

- 1.1.1 Construction Lag Screws, Carbon Steel: $\frac{1}{4}$ ", $\frac{5}{16}$ ", and $\frac{3}{8}$ "
- 1.1.2 Construction Lag Screws, Type 305 Stainless Steel: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.3 Construction Lag Screws, Type 316 Stainless Steel: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.4 Construction Timber Screws: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.5 Ledger Board Screw: $\frac{3}{8}$ "
- 1.1.6 Hex Head Construction Lag Screws: $\frac{5}{16}$ " and $\frac{3}{8}$ "
- 1.1.7 Structural Screws: $\frac{5}{16}$ " and $\frac{3}{8}$ "
- 1.1.8 Deck Screws: #9, #10, and #12
- 1.1.9 Truss Head Wood Screws: #10 and #12

2 Purpose and Scope

2.1 Purpose

- 2.1.1 The purpose of this Report Supplement is to show SaberDrive Platinum Screws, recognized in Report Number 2605-117, 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
- 2.2.2 FBC-R—20, 23: Florida Building Code – Residential

3 Conclusions

- 3.1 SaberDrive Platinum Screws, described in Report Number 2605-117, 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 is reserved.
 - 3.2.2 FBC-B Section 110.4 is reserved and replaces IBC Section 110.4.
 - 3.2.3 FBC-B Section 104.6 is reserved and replaces IBC Section 104.4.
 - 3.2.4 FBC-B Section 104.11 replaces IBC Section 104.2.3 and Section 104.2.3.2.
 - 3.2.5 FBC-B Section 105.3 replaces IBC Section 105.3.
 - 3.2.6 FBC-B Section 105.3.1 replaces IBC Section 105.3.1.



- 3.2.7 FBC-B Section 110.3 replaces IBC Section 110.3.
- 3.2.8 FBC-B Section 1707.1 replaces IBC Section 1707.1.
- 3.2.9 FBC-B Section 2304.10.5 replaces IBC Section 2304.10.6.
- 3.2.10 FBC-B Section 2306.1 replaces IBC Section 2306.1.
- 3.2.11 FBC-B Section 2306.3 replaces IBC Section 2306.3.
- 3.2.12 FBC-R Section R104 and Section R109 are reserved.
- 3.2.13 FBC-R Section R301.1 replaces IRC Section R301.1.
- 3.2.14 FBC-R Section R317.3 replaces IRC Section R304.3.

4 Conditions of Use

- 4.1 SaberDrive Platinum Screws, described in Report Number 2605-117, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in Report Number 2605-117.
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of FBC-B Chapter 16 and Chapter 17, as applicable.



Issue Date: August 28, 2026

Supplement Revision Date: August 28, 2026

Subject to Renewal: October 1, 2027

CBC and CRC Supplement to Report Number 2605-117

REPORT HOLDER: Midwest® Fastener Corporation

1 Evaluation Subject

1.1 SaberDrive Platinum Screws:

- 1.1.1 Construction Lag Screws, Carbon Steel: $\frac{1}{4}$ ", $\frac{5}{16}$ ", and $\frac{3}{8}$ "
- 1.1.2 Construction Lag Screws, Type 305 Stainless Steel: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.3 Construction Lag Screws, Type 316 Stainless Steel: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.4 Construction Timber Screws: $\frac{1}{4}$ " and $\frac{5}{16}$ "
- 1.1.5 Ledger Board Screw: $\frac{3}{8}$ "
- 1.1.6 Hex Head Construction Lag Screws: $\frac{5}{16}$ " and $\frac{3}{8}$ "
- 1.1.7 Structural Screws: $\frac{5}{16}$ " and $\frac{3}{8}$ "
- 1.1.8 Deck Screws: #9, #10, and #12
- 1.1.9 Truss Head Wood Screws: #10 and #12

2 Purpose and Scope

2.1 Purpose

- 2.1.1 The purpose of this Report Supplement is to show SaberDrive Platinum Screws, recognized in Report Number 2605-117 have also been evaluated for compliance with the codes listed below.

2.2 Applicable Code Editions

- 2.2.1 *CBC — 22, 25: California Building Code (Title 24, Part 2)*
- 2.2.2 *CRC — 22, 25: California Residential Code (Title 24, Part 2.5)*

3 Conclusions

- 3.1 SaberDrive Platinum Screws, described in Report Number 2605-117, comply with the CBC and CRC 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 CBC and CRC applicable to this report, they are listed here:
 - 3.2.1 CBC Section 104.2.3 replaces IBC Section 104.2.3 and IBC Section 104.2.3.2.
 - 3.2.2 CBC Section 104.7.2 replaces IBC Section 104.7.2.
 - 3.2.3 CBC Section 1707.1 replaces IBC Section 1707.1.
 - 3.2.4 CRC Section R104.7.2 replaces IRC Section R104.7.2.
 - 3.2.5 CRC Section R104.2.2 replaces IRC Section R104.2.2.



4 Conditions of Use

- 4.1 SaberDrive Platinum Screws, described in Report Number 2605-117, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in Report Number 2605-117.
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of CBC and CRC, as applicable.



Notes

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

[2018 IBC Section 2304.10.5](#)

[2021 IRC Section R317.3](#)

[2018 IBC Section 2304.10.5](#)

[2021 IRC Section R317.3](#)

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

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

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

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

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

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

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1> ~:text=the%20building%20official%20shall%20make%20C%20or%20cause%20to%20be%20made%20C%20the%20necessary%20tests%20and%20investigations%3B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

All references to the FBC-B and FBC-R are the same as the 2024 IBC and 2024 IRC unless otherwise noted in the Florida Supplement at the end of this report.

All references to the CBC and CRC are the same as the 2024 IBC and 2024 IRC unless otherwise noted in the California 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/mississippi/ibc-2024/chapter/2/definitions#listed> AND <https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#labeled>

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



- 33 <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>
- 34 <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>
- 35 Qualification is performed by a legislatively defined Accreditation Body. ANSI National Accreditation Board (ANAB) is the largest independent accreditation body in North America and provides services in more than 75 countries. DrJ is an ANAB accredited product certification body.
- 36 <https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prqID=1&orgID=2125&statusID=4#:~:text=Bill%20Payment%20Date-,Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH>
- 37 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>
- 38 [2021 IBC Section 104.11](#)
- 39 [2021 IRC Section R104.11](#)
- 40 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>
- 41 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.
- 42 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>
- 43 Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.
- 44 [2018 IBC Section 2304.10.5](#)
- 45 [2021 IRC Section R317.3](#)