



Listing and Technical Evaluation Report™

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Attachment of Xci Ply, Xci Ply (Class A) and Xci NB to Wood, Steel, Concrete, and Masonry

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CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

Section: 06 12 00 - Structural Panels

Section: 06 12 19 - Shear Wall Panels

Section: 06 16 00 - Sheathing

1 Innovative Products Evaluated¹

1.1 Xci Wall Products:

1.1.1 Xci Panels:

1.1.1.1 Xci Ply

1.1.1.2 Xci Ply (Class A)

1.1.1.3 Xci NB

1.1.2 Xci Foam Products:

1.1.2.1 Xci CG

1.1.2.2 Xci CG (Class A)

1.1.2.3 Xci Foil

1.1.2.4 Xci Foil (Class A)

2 Product Description and Materials

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

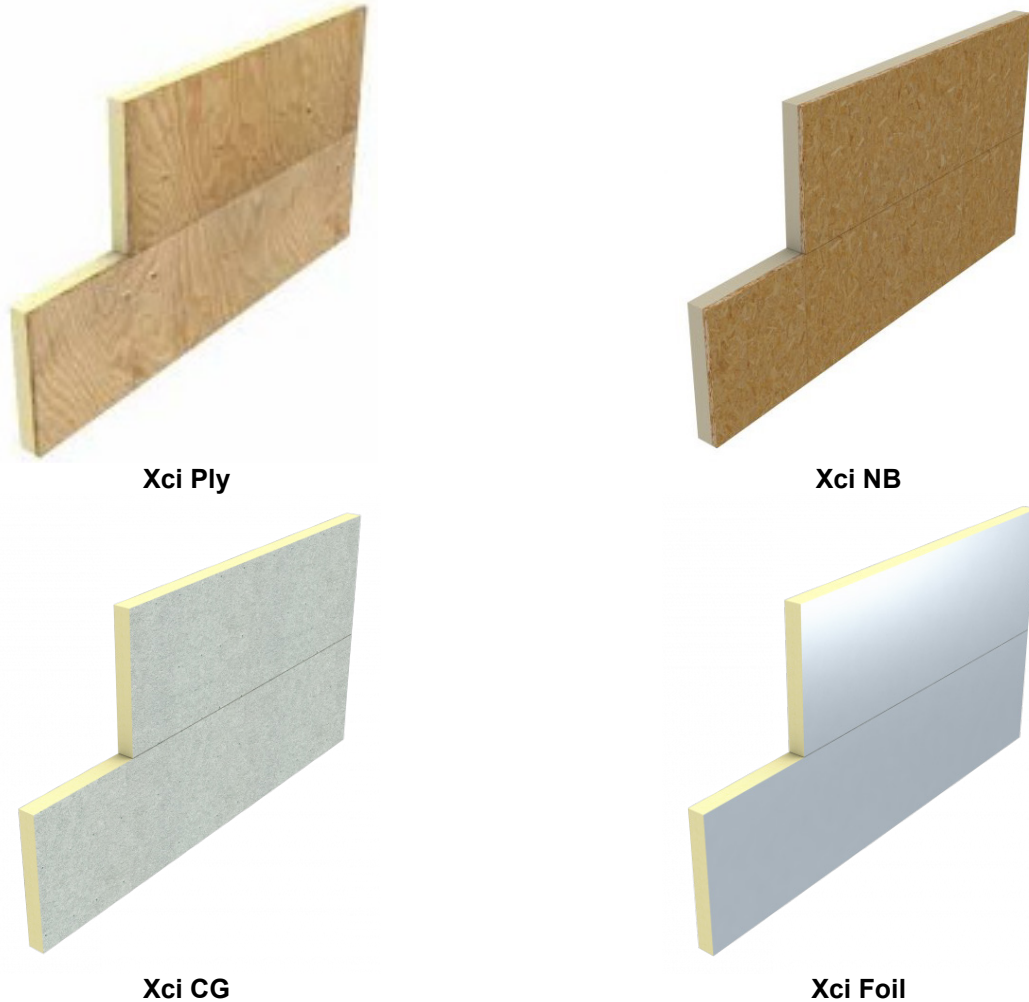


Figure 1. Xci Wall Products

- 2.2 Xci Ply and Xci Ply (Class A) panels are ASTM C1289 Type V, high thermal rigid insulation panels composed of a Type II Class 2 closed cell polyisocyanurate foam core bonded to a premium performance coated glass facer on one side and $\frac{5}{8}$ " or $\frac{3}{4}$ " Fire-Retardant Treated (FRT) plywood on the other. Both are designed for use in Types I-IV commercial wall applications to provide continuous insulation within the building envelope.
- 2.3 Xci NB is an ASTM C1289 Type V, high thermal rigid insulation panel composed of a Type II Class 2 closed cell polyisocyanurate foam core bonded to a premium performance coated glass facer on one side and $\frac{7}{16}$ " or $\frac{5}{8}$ " OSB or plywood on the other. It is designed for use in Type V commercial wall applications to provide continuous insulation within the building envelope.



2.4 Xci CG, Xci CG (Class A), Xci Foil and Xci Foil (Class A) are proprietary Foam Plastic Insulating Sheathing (FPIS) products.

2.4.1 Xci CG and Xci CG (Class A) are polyisocyanurate insulation boards adhered to coated glass facers. Insulation boards are available as ASTM C1289 Type II, Class 2, Grade 2 or Grade 3 compliant.

2.4.2 Xci Foil and Xci Foil (Class A) are composite boards consisting of a 25-psi closed-cell polyisocyanurate insulation foam core, coated on both sides with a glass-backed aluminum foil facer. Insulation boards are available as ASTM C1289 Type I, Class 1 and Class 2, Grade 2 or Grade 3 compliant.

2.5 *Material Availability*

2.5.1 *Thickness:*

2.5.1.1 *Xci Ply and Xci Ply (Class A):*

2.5.1.1.1 1.6" (41 mm) through 4.7" (119 mm)

2.5.1.2 *Xci Ply NB:*

2.5.1.2.1 1.5" (38 mm) through 4.6" (117 mm)

2.5.1.3 *Xci CG and XCI CG (Class A):*

2.5.1.3.1 1" (25 mm) through 4" (102 mm)

2.5.1.4 *Xci Foil and Xci Foil (Class A):*

2.5.1.4.1 1" (25 mm) through 4" (102 mm)

2.5.2 *Standard Product Width:*

2.5.2.1 48" (1,219 mm)

2.5.3 *Standard Product Length:*

2.5.3.1 96" (2,438 mm)

2.6 Throughout this report, "*Xci Panels*" refers to Xci Ply, Xci Ply (Class A) and Xci NB. "*Xci Foam*" refers to Xci CG, Xci CG (Class A), Xci Foil and Xci Foil (Class A) products.

2.7 *Fasteners*

2.7.1 Xci Panels shall be fastened with one of the proprietary fasteners described in this report section, and in accordance with the provisions of this report.

2.7.1.1 Proprietary fastener properties shall be per published manufacturer data.

2.7.1.2 Hunter SIP/WD fasteners (SIPTP fasteners from TRUFAST®) are size No. 14 (shank diameter 0.189") fasteners with a 0.635" diameter pancake head and a T-30 drive. The point is a threaded drill point.

2.7.1.3 Hunter SIP/SD fasteners (SIPLD fasteners from TRUFAST) are size No. 14 (shank diameter 0.189") fasteners with a 0.635" diameter pancake head and a T-30 drive. The point is a two-flute formed drill tip.

2.7.1.4 Hunter SIP/HD (SIPHD fasteners from TRUFAST) fasteners are size No. 14 (shank diameter 0.189") fasteners with a 0.635" diameter pancake head and a T-30 drive. The point is a two-flute formed drill tip.

2.7.1.5 1/4" Tapcon® Screw Anchors are a 0.192" shank diameter carbon steel concrete anchors with a 0.475" diameter flat head and Star drive. They have an alternating high-low thread form and a pointed tip.

2.7.2 When referred to in this report, Hunter SIP/WD, SIP/SD, and SIP/HD fasteners are equivalent to TRUFAST SIPTP, SIPLD and SIPHD fasteners, respectively.



2.8 Framing/Substrate Materials

2.8.1 Wood:

- 2.8.1.1 Solid sawn wood framing members shall consist of lumber species having a specific gravity of at least 0.42.

2.8.2 Steel:

- 2.8.2.1 Steel framing members must comply with one of the material standards provided in Section A3.1 of AISI S100.
- 2.8.2.2 At a minimum, steel framing members must comply with the requirements set forth in this report.

2.8.3 Concrete:

- 2.8.3.1 Normal weight structural concrete must comply with IBC Section 1901.2.
- 2.8.3.2 Concrete shall remain uncracked for the service life of the fastener.

2.8.4 Masonry:

- 2.8.4.1 Load-bearing Concrete Masonry Units (CMUs) shall comply with IBC Section 2114.3 and IRC Section R606.2.1.
- 2.8.4.2 CMUs shall be normal-weight and conform to ASTM C90.

- 2.9 As needed, review material properties for design in **Section 6** and to regulatory evaluation in **Section 8**.

3 Definitions

- 3.1 New Materials² are defined as building materials, equipment, appliances, systems or methods of construction not provided for by prescriptive and/or legislatively adopted regulations, known as alternative materials.³ The design strengths and permissible stresses shall be established by tests⁴ and/or engineering analysis.⁵
- 3.2 Duly authenticated reports⁶ and research reports⁷ are test reports and related engineering evaluations, which are written by an approved agency⁸ and/or an approved source.⁹
 - 3.2.1 These reports contain intellectual property and/or trade secrets, which are protected by the Defend Trade Secrets Act (DTSA).¹⁰
- 3.3 An approved agency is “approved” when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is listed in the ANAB directory.
- 3.4 An approved source is “approved” when a professional engineer (i.e., Registered Design Professional) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.¹¹
- 3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an ISO/IEC 17025 accredited testing laboratory, an ISO/IEC 17020 accredited inspection body and/or a licensed Registered Design Professional (RDP).
 - 3.5.1 The Center for Building Innovation (CBI) is ANAB¹² ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall enforce¹³ the specific provisions of each legislatively adopted regulation. If there is a non-conformance, the specific regulatory section and language of the non-conformance shall be provided in writing¹⁴ stating the nonconformance and the path to its cure.
- 3.7 The regulatory authority shall accept 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.¹⁵



- 3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory where recognition of certificates, validation and verification statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope, shall be approved.¹⁶ Therefore, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent.¹⁷
- 3.9 Approval equity is a fundamental commercial and legal principle.¹⁸

4 Applicable Standards for the Listing; Regulations for the Regulatory Evaluation¹⁹

4.1 Standards

- 4.1.1 *AISI S100: North American Specification for the Design of Cold-formed Steel Structural Members*
- 4.1.2 *ASCE/SEI 7: Minimum Design Loads for Buildings and Other Structures*
- 4.1.3 *ASTM A653: Specification for Steel Sheet, Zinc-coated Galvanized or Zinc-iron Alloy-coated Galvannealed by the Hot-dip Process*
- 4.1.4 *ASTM C90: Standard Specification for Loadbearing Concrete Masonry Units*
- 4.1.5 *ASTM D1761: Standard Test Methods for Mechanical Fasteners in Wood and Wood-Based Materials*

4.2 Regulations

- 4.2.1 *IBC – 15, 18, 21: International Building Code®*
- 4.2.2 *IRC – 15, 18, 21: International Residential Code®*
- 4.2.3 *IECC – 15, 18, 21: International Energy Conservation Code®*
- 4.2.4 *FBC-B—20, 23: Florida Building Code²⁰ – Building*
- 4.2.5 *FBC-R—20, 23: Florida Building Code²⁰ – Residential*

5 Listed²¹

- 5.1 Equipment, materials, products or services included in a List published by a nationally recognized testing laboratory (i.e., CBI), approved agency (i.e., CBI and DrJ), and/or approved source (i.e., DrJ) or other organization concerned with product evaluation (i.e., DrJ) that maintains periodic inspection (i.e., CBI) of production of listed equipment or materials, and whose listing states either that the equipment or material meets nationally recognized standards or has been tested and found suitable for use in a specified manner.

6 Tabulated Properties Generated from Nationally Recognized Standards

6.1 Xci Panel Attachment to Wood Framing

6.1.1 Xci Panels shall be fastened along each stud.

6.1.2 Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with **Table 1** and **Table 2**, when 1x wood furring strips (0.75" thick) are installed vertically over the Xci Foam and parallel to the studs (furring is in between insulation and underside of fastener head). The design of the furring is outside the scope of this report and must be checked for the applied loads.

6.1.2.1 **Table 1** lists the largest vertical spacing for the specified fastener(s), while **Table 2** lists maximum wind pressure and the corresponding maximum wind speed for each Exposure Category.

6.1.2.1.1 The fastener spacing to be used shall be governed by the stricter of:

6.1.2.1.1.1 Cladding weight per **Table 1**, or

6.1.2.1.1.2 Wind pressure/wind speed per **Table 2**.

6.1.2.1.1.3 **Example:** If the cladding weighing 15 psf is installed through a 1.6" Xci Ply panel into wood framing spaced 24" o.c. in a region with wind speeds that can reach up to 150 mph (Exposure Category C), the vertical fastener shall be installed 12" o.c. (value taken directly from **Table 2** as an example; per note #5 in **Table 2**, interpolation is permitted).

6.1.3 Connections to Wood Framing to Support Cladding Weight:

6.1.3.1 Fasteners are required to attach Xci Panels to wood framing to support the attached cladding weight. See **Table 1** for the maximum vertical fastener spacing (along the height of the stud) to support specified cladding weights.

6.1.3.2 See **Figure 2** for a typical installation detail of Xci Panels attached to wood studs.

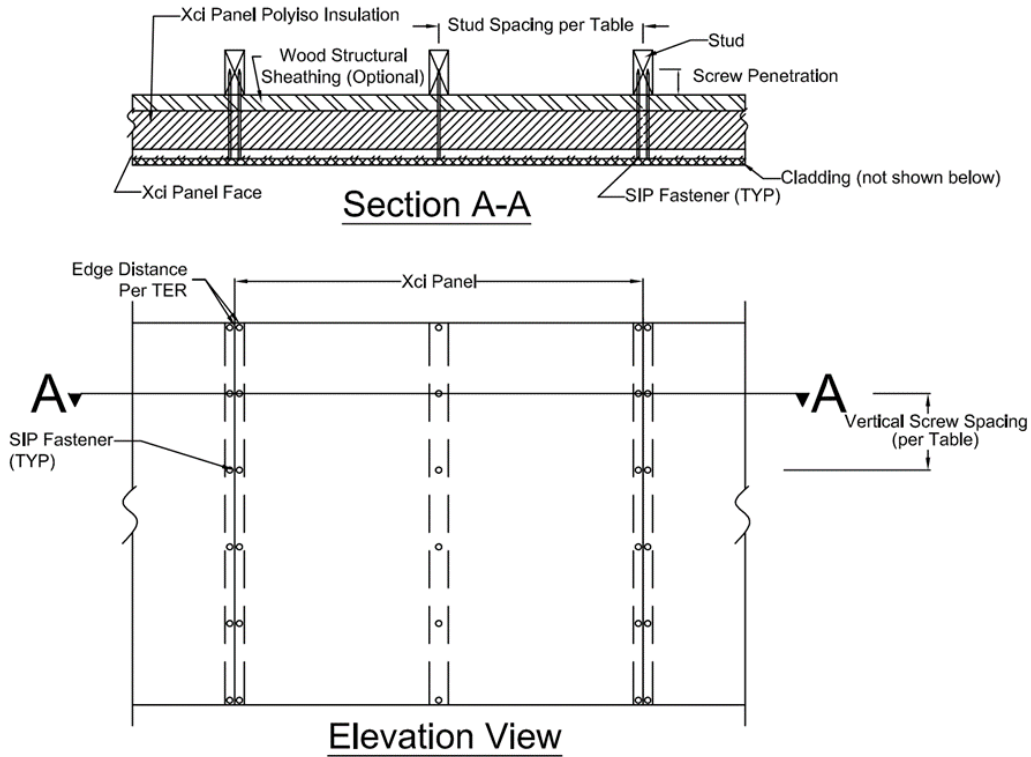


Figure 2. Typical Installation Detail

Table 1. Maximum Fastener Spacing for Xci Panels Attached to Wood Framing⁵

Framing Member ⁴	Stud Spacing (in) o.c.	Fastener ^{1,2}	Max. Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing (in)					
				Specified Cladding Weight ³ (psf)					
				5	10	15	20	25	30
Wood Framing	16"	Hunter SIP/SD	≤ 2½	24	24	24	24	24	24
			3	24	24	24	24	20	16
			3½	24	24	24	16	12	12
			4	24	16	12	8	8	6
		Hunter SIP/WD	≤ 2	24	24	24	24	24	24
			2½	24	24	24	24	24	20
			3	24	24	24	24	20	16
			3½	24	24	24	16	12	12
			4	24	16	12	8	8	6

Framing Member ⁴	Stud Spacing (in) o.c.	Fastener ^{1,2}	Max. Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing (in)					
				Specified Cladding Weight ³ (psf)					
				5	10	15	20	25	30
	24"	Hunter SIP/SD	1	24	24	24	24	24	24
			1½	24	24	24	24	24	20
			2	24	24	24	24	20	16
			2½	24	24	24	20	16	16
			3	24	24	20	16	12	12
			3½	24	20	16	12	8	8
		Hunter SIP/WD	4	20	12	8	6	4	4
			< 1½	24	24	24	24	20	16
			2	24	24	24	20	16	16
			2½	24	24	24	20	16	12
			3	24	24	20	16	12	12
			3½	24	20	16	12	8	8
		4	20	12	8	6	4	4	

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Minimum fastener penetration into stud for Hunter SIP/WD is 1½". Minimum fastener penetration into the stud for Hunter SIP/SD is 2" for use with Xci Panels 4.2" thick or less, and 1.5" for use with Xci Panels 4.6" thick. Fastener penetration length is equal to the threaded portion of the screw in the main member, including the tip.
2. Proprietary fastener properties are per published data or testing. Fastener length shall be chosen so that the fastener fully penetrates the Xci Panels and achieves the minimum required fastener penetration into stud.
3. The weight of Xci Panels are included in the fastener spacing calculations. The specified cladding weight shall include all other supported materials.
4. Wood studs shall be a minimum of 2x4 and have a minimum specific gravity of 0.42.
5. Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with **Table 1** when used with 1x wood furring strips (0.75" thick) are installed vertically over the Xci Foam and parallel to the studs (furring is in between insulation and underside of fastener's head).

6.1.4 *Connections to Wood Framing to Resist Out-of-Plane Wind Loading:*

- 6.1.4.1 Xci Panels shall be fastened along each stud with Hunter SIP/WD or Hunter SIP/SD.
- 6.1.4.2 See **Figure 2** for a typical installation detail of Xci Panels attached to wood studs.

Table 2. Allowable Wind Pressures for Xci Ply and Xci Ply NB Attached to Wood Framing With SIP/WD and SIP/SD^{1,2,3,6}

Stud Spacing (in) o.c.	Vertical Fastener Spacing (in) o.c.	Allowable Wind Pressure ⁴ (psf)	Maximum Wind Speed (mph) Based on Wind Exposure ^{4,5}		
			B	C	D
16"	24	54	165	145	135
	16	81	200	180	165
	12	108	200	200	195
	≤ 8	120	200	200	200
24"	24	36	135	115	110
	16	54	165	145	135
	12	72	195	170	155
	≤ 8	95	200	200	185

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Minimum fastener penetration into stud is 1.5". Fastener penetration length is equal to the threaded portion of the screw in the main member, including the tip.
2. Proprietary fastener properties are per published data or testing. Fastener length shall be chosen so that the fastener fully penetrates the Xci Panels and achieves the minimum required fastener penetration into stud.
3. Wood studs shall be a minimum of 2x4 and have a minimum specific gravity of 0.42.
4. Three-second-gust wind speed; based on a building height of 66-feet, Zone 5, Importance Factor, $I_w=1.0$ and Topographic Factor, $K_{zt}=1.0$, Internal Pressure Coefficient, $GC_{pi}=+/-0.18$ in accordance with ASCE 7, Section 30.4.2 and IRC Section R301.2.1. Pressure Equalization Factor, $PEF=1.0$.
5. Interpolation between table values is permitted.
6. Where furring strips are used over foam, their adequacy to span between fasteners shall be checked separately. The design of furring strips is not taken into account in this table.

6.2 *Xci Panel Attachment to CFS Framing*

- 6.2.1 Minimum penetration into CFS framing is the steel framing thickness plus three threads and the tip of the fastener, unless noted otherwise in this report.
- 6.2.2 Xci Panels shall be fastened along each stud. Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with **Table 3**, **Table 4**, **Table 5** and **Table 6**, when light-gauge furring channels or hat channels are installed vertically over the Xci Foam parallel to the studs (furring is in between insulation and underside of fastener head).
- 6.2.3 Furring or hat channel thickness must be equal to or greater than CFS framing thickness.
- 6.2.4 The design of the furring and hat channels is outside the scope of this report and should be checked for the applied loads.
 - 6.2.4.1 Furring or hat channels shall be oriented so that the raised portion of the furring or channel is snug against the polyiso insulation (i.e., inverted orientation).

6.2.5 **Table 3** through **Table 5** list the largest vertical spacing for the specified fastener(s) and CFS framing member thickness, while **Table 6** lists maximum wind pressure and the corresponding maximum wind speed for each Exposure Category.

6.2.5.1 The fastener spacing to be used shall be governed by the stricter of:

6.2.5.1.1 Cladding weight per **Table 3** through **Table 5**, or

6.2.5.1.2 Wind pressure/wind speed per **Table 6**.

6.2.6 *Xci Panel Attachment to CFS Framing to Support Cladding Weight:*

6.2.6.1 Fasteners are required to attach Xci Panels to CFS framing to support the attached cladding weight.

6.2.6.1.1 See **Table 3** for maximum vertical fastener spacing (along the height of the stud) for 18-gauge CFS framing to support specified cladding weights.

6.2.6.1.2 See **Table 4** for maximum vertical fastener spacing (along the height of the stud) for 16-gauge CFS framing to support specified cladding weights.

6.2.6.1.3 See **Table 5** for maximum vertical fastener spacing (along the height of the stud) for 12-gauge CFS framing to support specified cladding weights.

Table 3. Maximum Fastener Spacing for Xci Ply Attached to 18-Gauge CFS Framing⁵

Framing Member ⁴	Stud Spacing (in) o.c.	Fastener ^{1,3}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing (in)						
				Specified Cladding Weight ² (psf)						
				5	10	15	20	25	30	
18-gauge CFS Framing ^{6,7}	16"	Hunter SIP/SD	1	24	24	24	24	24	24	
			1 1/2	24	24	24	24	24	20	
			2	24	24	24	24	20	16	
			2 1/2 to 4	24	24	24	20	16	12	
		Hunter SIP/HD	1	24	24	24	24	24	20	
			1 1/2	24	24	24	24	20	16	
			2	24	24	24	20	16	12	
			2 1/2	24	24	20	16	12	8	
			3	24	24	16	12	8	8	
			3 1/2	24	20	12	8	8	6	
		24"	Hunter SIP/SD	1	24	24	24	24	20	16
				1 1/2	24	24	24	20	16	12
	2			24	24	20	16	12	12	
	2 1/2 to 3			24	24	16	12	12	8	
	3 1/2 to 4			24	24	16	12	8	8	
	Hunter SIP/HD		1	24	24	24	20	16	12	
		1 1/2	24	24	20	16	12	12		
		2	24	24	16	12	8	8		
		2 1/2 to 3	24	20	12	8	8	6		
		3 1/2	20	12	8	6	6	4		
		4	16	8	8	6	4	4		

Framing Member ⁴	Stud Spacing (in) o.c.	Fastener ^{1,3}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing (in)					
				Specified Cladding Weight ² (psf)					
				5	10	15	20	25	30
St: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m ² 1. Minimum fastener penetration into stud is the steel thickness plus three threads and the tip of the fastener. Required fastener length shall be chosen to fully penetrate Xci Panel to achieve minimum fastener penetration into framing. 2. The weight of Xci Panels are included in the fastener spacing calculations. The specified cladding weight shall include all other supported materials. 3. Proprietary fastener properties are per published data or testing. 4. CFS framing shall be a minimum of 45 mils thick and have a minimum ultimate tensile strength of 45 ksi (i.e., ASTM A653, SS Grade 33). 5. Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with Table 3 , Table 4 and Table 5 , when light-gauge furring channels or hat channels are installed vertically over the Xci Foam parallel to the studs (furring is in between insulation and underside of fastener head). 6. Furring or hat channel thickness must be equal to or greater than CFS framing thickness. 7. Furring or hat channels shall be oriented such that the raised portion of the furring or channel is snug against the polyiso insulation (i.e., inverted orientation).									

Table 4. Maximum Fastener Spacing for Xci Ply Attached to 16-Gauge CFS Framing⁵

Framing Member ⁴	Stud Spacing (in) o.c.	Fastener ^{1,3}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing (in)					
				Specified Cladding Weight ² (psf)					
				5	10	15	20	25	30
16-gauge CFS Framing ^{6,7}	16"	Hunter SIP/SD	≤ 4	24	24	24	24	24	24
			≤ 2	24	24	24	24	24	24
		Hunter SIP/HD	2 1/2	24	24	24	24	20	16
			3	24	24	24	16	16	12
			3 1/2	24	24	20	16	12	8
			4	24	24	16	12	8	8
	24"	Hunter SIP/SD	≤ 1 1/2	24	24	24	24	24	24
			2	24	24	24	24	24	20
			2 1/2	24	24	24	24	20	16
			3 to 4	24	24	24	20	16	16
		Hunter SIP/HD	1	24	24	24	24	24	24
			1 1/2	24	24	24	24	24	20
			2	24	24	24	24	20	16
			2 1/2	24	24	20	16	12	12
			3	24	20	16	12	8	8

Framing Member ⁴	Stud Spacing (in) o.c.	Fastener ^{1,3}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing (in)					
				Specified Cladding Weight ² (psf)					
				5	10	15	20	25	30
			3 ¹ / ₂	24	20	12	8	8	6
			4	24	16	12	8	6	6

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Minimum fastener penetration into stud is the steel thickness plus three threads and the tip of the fastener. Required fastener length shall be chosen to fully penetrate the Xci Ply panel to achieve minimum fastener penetration into framing.
2. The weight of Xci Ply panels are included in the fastener spacing calculations. The specified cladding weight shall include all other supported materials.
3. Proprietary fastener properties are per published data or testing.
4. CFS framing shall be a minimum of 53 mils thick and have a minimum ultimate tensile strength of 65 ksi (i.e., ASTM A653, SS Grade 50).
5. Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with **Table 3**, **Table 4** and **Table 5**, when light-gauge furring channels or hat channels are installed vertically over the Xci Foam parallel to the studs (furring is in between insulation and underside of fastener's head).
6. Furring or hat channel thickness must be equal to or greater than CFS framing thickness.
7. Furring or hat channels shall be oriented such that the raised portion of the furring or channel is snug against the polyiso insulation (i.e., inverted orientation).

Table 5. Maximum Fastener Spacing for Xci Panels Attached to 12-Gauge CFS Framing⁵

Framing Member ⁴	Stud Spacing (in) o.c.	Fastener ^{1,3}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing (in)					
				Specified Cladding Weight ² (psf)					
				5	10	15	20	25	30
12-gauge CFS Framing ^{6,7}	16"	Hunter SIP/SD	≤ 4	24	24	24	24	24	24
		Hunter SIP/HD	≤ 2 1/2	24	24	24	24	24	24
			3	24	24	24	24	20	16
			3 1/2	24	24	24	16	12	12
			4	24	20	12	8	8	8
	Hunter SIP/SD	≤ 1 1/2	24	24	24	24	24	24	
		2	24	24	24	24	24	20	
		2 1/2	24	24	24	24	20	16	
		3 to 4	24	24	24	24	16	16	
		Hunter SIP/HD	1	24	24	24	24	24	24
			1 1/2	24	24	24	24	24	20
			2	24	24	24	24	20	16
			2 1/2	24	24	20	16	12	12
			3	24	20	16	12	8	8
			3 1/2	24	20	12	8	8	6
			4	24	16	12	8	6	6

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Minimum fastener penetration into stud is the steel thickness plus three threads and the tip of the fastener. Required fastener length shall be chosen to fully penetrate the Xci Panel to achieve minimum fastener penetration into framing.
2. The weight of Xci Panels are included in the fastener spacing calculations. The specified cladding weight shall include all other supported materials.
3. Proprietary fastener properties are per published data or testing.
4. CFS framing shall be a minimum of 99 mils thick and have a minimum ultimate tensile strength of 65 ksi (i.e., ASTM A653, SS Grade 50).
5. Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with **Table 3**, **Table 4** and **Table 5**, when light-gauge furring channels or hat channels are installed vertically over the Xci Foam parallel to the studs (furring is in between insulation and underside of fastener head).
6. Furring or hat channel thickness must be equal to or greater than CFS framing thickness.
7. Furring or hat channels shall be oriented such that the raised portion of the furring or channel is snug against the polyiso insulation (i.e., inverted orientation).

6.2.7 Xci Panel Connections to CFS Framing to Resist Out-of-Plane Wind Loading:

6.2.7.1 Xci Panels shall be fastened along each stud with Hunter SIP/SD.

Table 6. Allowable Wind Pressures for Xci Ply and Xci Ply NB Attached to Steel Framing with SIP/SD^{1,2,5}

Steel Design Thickness (in)	Stud Spacing (in) o.c.	Vertical Fastener Spacing (in) o.c.	Allowable Wind Pressure ³ (psf)	Maximum Wind Speed (mph) Based on Wind Exposure ^{3,4}		
				B	C	D
0.0346" (20-gauge)	16"	24	43	155	135	125
		20	52	170	150	135
		16	65	190	165	155
		12	86	200	190	175
		≤ 8	120	200	200	200
	24"	24	29	130	110	100
		20	35	140	120	110
		16	43	155	135	125
		12	58	180	155	145
		≤ 8	86	200	190	175
0.0451" (18-gauge)	16"	24	68	195	170	155
		20	81	200	185	170
		16	101	200	200	190
		≤ 12	120	200	200	200
	24"	24	45	160	140	130
		20	54	175	150	140
		16	68	195	170	155
		12	90	200	195	180
		≤ 8	95	200	200	185
		≤ 8	95	200	200	185
0.0552" (16-gauge)	16"	24	102	200	200	190
		≤ 20	120	200	200	200
	24"	24	68	195	170	155
		20	81	200	185	170
		≤ 16	95	200	200	185
0.0979" (12-gauge)	16"	≤ 24	120	200	200	200
	24"	24	81	200	185	170
		≤ 20	95	200	200	185

Table 6. Allowable Wind Pressures for Xci Ply and Xci Ply NB Attached to Steel Framing with SIP/SD^{1,2,5}

Steel Design Thickness (in)	Stud Spacing (in) o.c.	Vertical Fastener Spacing (in) o.c.	Allowable Wind Pressure ³ (psf)	Maximum Wind Speed (mph) Based on Wind Exposure ^{3,4}		
				B	C	D

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Minimum fastener penetration into stud is the steel thickness plus three threads and the tip of the fastener. Required fastener length shall be chosen to fully penetrate the Xci Panel to achieve minimum fastener penetration into framing.
2. CFS framing shall be a minimum of 33 mils thick and have a minimum tensile strength of 45 ksi.
3. Three-second-gust wind speed, based on a building height of 66-feet, Zone 5, Importance Factor, $I_w=1.0$ and Topographic Factor, $K_{zt}=1.0$, Internal Pressure Coefficient, $GC_p=+/-0.18$ in accordance with ASCE 7, Section 30.4.2 and IRC Section R301.2.1. Pressure Equalization Factor, $PEF=1.0$.
4. Interpolation between table values is permitted.
5. Where furring channels or hat channels are used over foam, their adequacy to span between fasteners shall be checked separately. The design of furring channels and hat channels is not taken into account in this table.

6.3 Xci Panel Attachment to Concrete Substrates

6.3.1 Xci Panel Attachment to Concrete Substrates to Support Cladding Weight:

- 6.3.1.1 Fasteners are required to attach Xci Panels to concrete to support the attached cladding weight. See **Table 7** for maximum vertical fastener spacing to support specified cladding weights.
- 6.3.1.2 Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is permitted for use in accordance with **Table 7** when used with 1x wood furring strips (0.75" thick), and are installed vertically over the Xci Foam and parallel to the studs (furring is in between insulation and underside of fastener head). The design of the furring is outside the scope of this report, and should be checked for the applied loads.

Table 7. Maximum Fastener Spacing for Xci Panels Attached to Concrete Substrates⁷

Substrate Material ⁵	Maximum Horizontal Fastener Spacing (in)	Fastener ^{1,2,4}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing ⁶ (in)						
				Specified Cladding Weight ³ (psf)						
				5	10	15	20	25	30	
Concrete (f _c ' ≥ 2,500 psi)	16"	Hunter SIP/SD	≤ 1½	24	24	24	24	24	24	
			2	24	24	24	24	24	20	
			2½	24	24	24	24	20	16	
			3 to 4	24	24	24	20	16	12	
		Hunter SIP/WD	≤ 3	24	24	24	24	24	24	
			3½	24	24	24	24	24	20	
			4	24	24	24	24	20	16	
		¼" Tapcon	≤ 2	24	24	24	24	24	24	
			2½	24	24	24	24	24	20	
			3 to 4	24	24	24	24	20	16	
		24"	Hunter SIP/SD	1	24	24	24	24	24	20
				1½	24	24	24	24	20	16
	2			24	24	24	20	16	12	
	2½ to 3			24	24	20	16	12	8	
	3½ to 4			24	24	16	12	8	8	
	Hunter SIP/WD		≤ 1½	24	24	24	24	24	24	
			2 to 2½	24	24	24	24	24	20	
			3	24	24	24	24	20	16	
			3½	24	24	24	20	16	12	
			4	24	24	20	16	12	8	
	¼" Tapcon		≤ 1½	24	24	24	24	24	24	
			2	24	24	24	24	20	16	
		2½	24	24	24	20	16	12		
		3 to 4	24	24	20	16	12	12		



Substrate Material ⁵	Maximum Horizontal Fastener Spacing (in)	Fastener ^{1,2,4}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing ⁶ (in)					
				Specified Cladding Weight ³ (psf)					
				5	10	15	20	25	30
Sl: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m ² 1. Minimum fastener embedment into substrate is 1.5" for the Hunter SIP/SD and SIP/WD. Minimum fastener embedment into the substrate for Tapcon is 2" for use with Xci Panels 4.2" thick or less, and 1.4" for use with Xci Panels 4.6" thick or thicker. Required fastener length shall be chosen to fully penetrate the Xci Panel to achieve minimum fastener embedment into substrate. Fastener embedment is the threaded length embedded in the substrate, including the tip. 2. Fasteners shall be installed with a minimum end distance of 6" and a minimum edge distance of 2.5". 3. The weight of Xci Panels are included in the fastener spacing calculations. The specified cladding weight shall include all other supported materials. 4. Proprietary fastener properties are per published data or testing. 5. Concrete shall have a minimum compressive strength of 2,500 psi after 28 days. 6. Maximum Fastener Vertical Spacing is based on allowable lateral shear values determined by dividing the strength design value by a conversion factor (α) of 1.48. The conversion factor is based on the load combination: 1.2D + 1.6L, where Dead Load (D) = 30% and Live Load (L) = 70% of the total load, respectively. Adjustments shall be made where other load combinations control. 7. Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with this table when used with 1x wood furring strips (0.75" thick) are installed vertically over the Xci Foam and parallel to the studs (furring is in between insulation and underside of fastener's head)									

6.4 Xci Panel Attachment to CMU Substrates

- 6.4.1 Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is permitted for use in accordance with **Table 8** when used with 1x wood furring strips (0.75" thick), and are installed vertically over the Xci Foam and parallel to the studs (furring is in between insulation and underside of fastener head)
- 6.4.2 *Xci Panel Attachment to Masonry Substrates to Support Cladding Weight:*
 - 6.4.2.1 Fasteners are required to attach Xci Panels to masonry substrates to support the attached cladding weight. See **Table 8** for maximum vertical fastener spacing to support specified cladding weights.
 - 6.4.2.2 **Table 9** lists maximum wind pressure and the corresponding maximum wind speed for each Exposure Category.
 - 6.4.2.3 The fastener spacing to be used shall be governed by the stricter of:
 - 6.4.2.3.1 Cladding weight per **Table 8**, or
 - 6.4.2.3.2 Wind pressure/wind speed per **Table 9**.

Table 8. Maximum Fastener Spacing for Xci Panels Attached to Masonry Substrates⁷

Substrate Material ⁵	Maximum Horizontal Fastener Spacing (in)	Fastener ^{1,2,4}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing ⁶ (in)					
				Specified Cladding Weight ³ (psf)					
				5	10	15	20	25	30
CMU	16"	Hunter SIP/SD	≤ 3 1/2	24	24	24	24	24	24
			4	24	24	24	24	20	16
		Hunter SIP/WD	≤ 4	24	24	24	24	24	24
			1/4" Tapcon	≤ 2	24	24	24	24	24
	24"	Hunter	2 1/2 to 4	24	24	24	24	20	16
			≤ 3	24	24	24	24	24	24



Substrate Material ⁵	Maximum Horizontal Fastener Spacing (in)	Fastener ^{1,2,4}	Maximum Nominal Thickness of the Polyiso Portion of Xci Panels (in)	Maximum Fastener Vertical Spacing ⁶ (in)					
				Specified Cladding Weight ³ (psf)					
				5	10	15	20	25	30
		SIP/SD	3 1/2	24	24	24	24	24	20
			4	24	24	20	16	12	12
		Hunter SIP/WD	≤ 2 1/2	24	24	24	24	24	24
			3 to 4	24	24	24	24	24	20
		1/4" Tapcon	≤ 1 1/2	24	24	24	24	24	24
			2	24	24	24	24	20	16
2 1/2 to 4			24	24	20	16	12	12	

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

- Minimum fastener embedment into substrate is 2" for the Hunter SIP/SD and 1.5" for the SIP/WD. Minimum fastener embedment into the substrate for Tapcon is 2" for use with Xci Panels 4.2" thick or less, and 1.4" for use with Xci Panels 4.6" thick or thicker. Required fastener length shall be chosen to fully penetrate the Xci Panel to achieve minimum fastener embedment into substrate. Fastener embedment is the threaded length embedded in the substrate, including the tip.
- Fasteners shall be installed into the face of CMU block with a minimum end distance shall be 6" and a minimum edge distance shall be 2.5".
- The weight of Xci Panels are included in the fastener spacing calculations. The specified cladding weight shall include all other supported materials.
- Proprietary fastener properties are per published data or testing.
- Masonry shall be normal-weight CMU conforming to ASTM C90.
- Maximum Fastener Vertical Spacing is based on allowable lateral shear values determined by dividing the strength design value by a conversion factor (α) of 1.48. The conversion factor is based on the load combination: 1.2D + 1.6L, where Dead Load (D) = 30% and Live Load (L) = 70% of the total load, respectively. Adjustments shall be made where other load combinations control.
- Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is allowable for use in accordance with this table when used with 1x wood furring strips (0.75" thick) are installed vertically over the Xci Foam and parallel to the studs (furring is in between insulation and underside of fastener's head).

6.4.3 Xci Panel Attachment to Masonry Substrates to Resist Out-of-Plane Wind Loading:

6.4.3.1 Xci Panels shall be fastened with Hunter SIP/SD.

Table 9. Allowable Wind Pressures for Xci Ply and Xci Ply NB Attached to Masonry Substrates with SIP/SD^{1,2}

Horizontal Fastener Spacing (in) o.c.	Vertical Fastener Spacing (in) o.c.	Allowable Wind Pressure ³ (psf)	Maximum Wind Speed (mph) Based on Wind Exposure ^{4,5}		
			B	C	D
16"	24	34	130	115	105
	16	50	160	140	130
	12	67	190	165	150
	8	101	200	200	185
	≤ 6	120	200	200	200
24"	24	23	105	90	85
	16	34	130	115	105

Horizontal Fastener Spacing (in) o.c.	Vertical Fastener Spacing (in) o.c.	Allowable Wind Pressure ³ (psf)	Maximum Wind Speed (mph) Based on Wind Exposure ^{4,5}		
			B	C	D
	12	45	150	130	125
	8	67	190	165	150
	≤ 6	90	200	190	175

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

1. Masonry to have a minimum specified compressive strength of 2,500 psi. Screw shall have sufficient length and be installed so that it penetrates the masonry a minimum of 1.5 inches.
2. Proprietary fastener properties are per published data or testing.
3. Allowable pressure does not consider masonry strength in holding the fastener as a post-installed embedment in accordance with ACI 318, Appendix D.
4. Three-second-gust wind speed; based on a building height of 66-feet, Zone 5, Importance Factor, $I_w=1.0$ and Topographic Factor, $K_{zt}=1.0$, Internal Pressure Coefficient, $GC_p=+/-0.18$ in accordance with ASCE 7-10 and 7-16, Section 30.4.2 and IRC Section R301.2.1. Pressure Equalization Factor, PEF=1.0.
5. Interpolation between table values is permitted.

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 Performance²²

- 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.²³
- 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.²⁴



8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 Xci Wall Products comply with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:
 - 8.1.1 Connection of Xci Panels was evaluated for use in supporting attached cladding weight.
 - 8.1.1.1 The scope of this report includes connection to light-frame wood construction framing, light-frame Cold Formed Steel (CFS) framing, concrete substrates and Concrete Masonry Units (CMU) to support cladding weight.
 - 8.1.2 Connection of Xci Ply and Xci Ply NB panels were evaluated to determine the allowable out-of-plane wind pressure and maximum wind speeds.
 - 8.1.2.1 Allowable out-of-plane wind pressures are provided for wood construction framing, CFS framing and CMU.
- 8.2 Allowable out-of-plane wind pressures for concrete substrates is outside the scope of this report.
- 8.3 Attachment of the cladding to the Xci Panels is outside the scope of this report.
- 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 qualified²⁵ 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 accredited ICS code scope 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 *Installation Procedure*
 - 9.3.1 All Xci Panel edges shall be supported by framing or blocking.
 - 9.3.2 Fasteners shall be installed with a minimum edge distance of $\frac{3}{8}$ " on all sides of the Xci Panel.
 - 9.3.3 Fasteners shall be installed with the appropriate rotating drill oriented normal to the surface of the Xci Panel.
 - 9.3.4 Fastener head shall be installed in contact with the face of the Xci Panel.
 - 9.3.5 Fasteners shall be installed with the maximum on-center spacing indicated in **Table 1** through **Table 9**, as applicable.
 - 9.3.6 Fasteners installed in masonry shall be in the face of normal-weight CMU block conforming to ASTM C90.
 - 9.3.7 Fasteners installed in concrete and CMU shall have predrilled holes in accordance with manufacturer installation instructions.
 - 9.3.8 When Xci Foam (without the FRT plywood or OSB facer adhered to the polyiso insulation) is noted allowable for use in accordance with **Table 1** through **Table 9**, 1x furring strips or inverted hat/furring channels shall be installed in accordance with the respective table and the sections listed below:
 - 9.3.8.1 See **Section 6.1** for wood framing.
 - 9.3.8.2 See **Section 6.2** for CFS framing.



- 9.3.8.3 See **Section 6.3** for concrete substrates.
- 9.3.8.4 See **Section 6.4** for masonry substrates.

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 Lateral resistance testing in accordance with ASTM D1761
 - 10.1.2 Fastener spacing, wind pressure and wind speed calculations performed by DrJ Engineering, LLC
- 10.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources and/or RDPs. Accuracy of external test data and resulting analysis is relied upon.
- 10.3 Where applicable, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability and safety.
- 10.4 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate or 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: 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.²⁶
- 10.6 Where additional condition of use and/or regulatory compliance information is required, please search for Xci Wall Products on the DrJ Certification website.



11 Findings

- 11.1 As outlined in **Section 6**, Xci Wall Products 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, Xci Wall Products shall be approved for the following applications:
- 11.2.1 Use as a nail base for support of cladding materials products.
- 11.3 Unless exempt by state statute, when Xci Wall Products 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 Hunter Panels.
- 11.5 IBC Section 104.11 (IRC Section R104.11 and IFC Section 104.10²⁷ 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:**²⁸ Building regulations require that the building official shall accept duly authenticated reports.²⁹
- 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 Agreements (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.³⁰

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 As listed herein, Xci Wall Products shall be used:
- 12.3.1 In dry lumber with a moisture content less than or equal to nineteen percent (19%).
- 12.4 Cladding attachment shall be in accordance with the cladding manufacturer installation instructions or an approved engineered design.



- 12.5 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:
- 12.5.1 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.
 - 12.5.2 This report and the installation instructions shall be submitted at the time of permit application.
 - 12.5.3 These innovative products have an internal quality control program and a third-party quality assurance program.
 - 12.5.4 At a minimum, these innovative products shall be installed per **Section 9** 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 These innovative products have an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.4, IBC Section 110.4, IBC Section 1703, IRC Section R104.4 and IRC Section R109.2.
 - 12.5.7 The application of these innovative products in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by IBC Section 110.3, IRC Section R109.2 and any other regulatory requirements that may apply.
- 12.6 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *“the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new material or assemblies as provided for in Section 104.11,”* all of IBC Section 104, and IBC Section 105.4.
- 12.7 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).
- 12.8 The actual design, suitability, and use of this report for any particular building, is the responsibility of the owner or the authorized agent of the owner.

13 Identification

- 13.1 The innovative products listed in **Section 1.1** 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.hunterpanels.com.

14 Review Schedule

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



Issue Date: November 5, 2021
Subject to Renewal: October 1, 2026

FBC Supplement to Report Number 2102-05

REPORT HOLDER: Hunter Panels

1 Evaluation Subject

- 1.1 Xci Wall Products:
 - 1.1.1 Xci Panel Products:
 - 1.1.1.1 Xci Ply
 - 1.1.1.2 Xci Ply (Class A)
 - 1.1.1.3 Xci NB
 - 1.1.2 Xci Foam Products:
 - 1.1.2.1 Xci CG
 - 1.1.2.2 Xci CG (Class A)
 - 1.1.2.3 Xci Foil
 - 1.1.2.4 Xci Foil (Class A)

2 Purpose and Scope

- 2.1 Purpose
 - 2.1.1 The purpose of this Report Supplement is to show Xci Wall Products, recognized in Report Number 2102-05, 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 Xci Wall Products, described in Report Number 2102-05, 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 2020 FBC-B Section 2109.3 replaces IBC Section 2114.3.
 - 3.2.4 2017 FBC-B Section 2103.1 replaces IBC Section 2114.3.



4 Conditions of Use

- 4.1 Xci Wall Products, described in Report Number 2102-05, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in Report Number 2102-05.
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of FBC-B Chapter 16 and Chapter 17, as applicable.



Notes

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

2 <https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1702>

3 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/colorado/ibc-2021/chapter/1/scope-and-administration#104.11>

4 <https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1706>:-:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests%20as

5 The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice. <https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1706>:-:text=shall%20conform%20to%20the%20specifications%20and%20methods%20of%20design%20of%20accepted%20engineering%20practice

6 <https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1707.1>:-:text=the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies

7 <https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1703.4.2>

8 https://up.codes/viewer/wyoming/ibc-2021/chapter/2/definitions#approved_agency

9 https://up.codes/viewer/wyoming/ibc-2021/chapter/2/definitions#approved_source

10 <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](#).

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

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

13 <https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-administration#104>:-:text=to%20enforce%20the%20provisions%20of%20this%20code

14 <https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-administration#104.11>:-:text=Where%20the%20alternative%20material%20design%20or%20method%20of%20construction%20is%20not%20approved%20the%20building%20official%20shall%20respond%20in%20writing%20stating%20the%20reasons%20why%20the%20alternative%20was%20not%20approved AND <https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-administration#105.3.1>:-:text=If%20the%20application%20or%20the%20construction%20documents%20do%20not%20conform%20to%20the%20requirements%20of%20pertinent%20laws%20the%20building%20official%20shall%20reject%20such%20application%20in%20writing%20stating%20the%20reasons%20therefore

15 <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%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.11

16 <https://iaf.eu/en/about-iaf>

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

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

19 Unless otherwise noted, all references in this Listing are from the 2021 version of the codes and the standards referenced therein. This material, product, design, service and/or method of construction also complies with the 2000-2021 versions of the referenced codes and the standards referenced therein.

20 All references to the 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.

21 <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>

22 <https://up.codes/viewer/colorado/ibc-2021/chapter/17/special-inspections-and-tests#1703.4>

23 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#>:-:text=All%20construction%20methods%20shall%20be%20in%20conformance%20with%20accepted%20engineering%20practices%20to%20insure%20durable%20livable%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades

24 <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

25 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](#).

26 See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition.

27 [2018 IFC Section 104.9](#)

28 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.



29 <https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1707.1>

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