

BOCA ENGINEERING CO. | SPAR

STRUCTURAL & CIVIL CONSULTANTS

## FLORIDA BUILDING CODE ENGINEERING EVALUATION REPORT

Date 2022-05-17 Report Number 0093-3-1 Client Name FastPlank Inc. Address 101-4441 76th Ave SE, Calgary, AB T2C 2G8

## **Subject**

FastPlank Systems aluminum exterior wall cladding

## **Evaluation Scope**

This report is provided to assist registered design professionals and building officials in the United States with determining compliance to the performance objectives in the named building codes. The product(s) described herein have been evaluated to the 2020 Florida Building Code (FBC) and Residential Code (FBC-R).

CSI DIVISION:	07 00 00 THERMAL AND MOISTURE PROTECTION
SUBDIVISION:	07 46 16 Aluminum Siding

FBC CATEGORY:	Panel Walls
SUB-CATEGORY:	Siding

#### CODE SECTIONS AND STANDARDS:

FBC Section	Description	Referenced Standardor Code Section1	<u>Year</u>
703.5.1	Non-Combustibility Tests, Elementary Materials	ASTM E136	2016
703.5.2	Non-Combustibility Tests, Composite Materials	ASTM E84	2016
1403.2	Exterior Walls, Weather Protection	ASTM E331	2009
1403.3	Exterior Walls, Structural	FBC Ch 16	2020
1404.5.1	Aluminum Siding	AAMA 1402	2009
1405.1	Installation of Wall Coverings, General (HVHZ)	TAS 202, 203	1994
1405.2	Installation of Wall Coverings, Weather Protection	Table 1405.1	2020
1609.1.1	Determination of Wind Loads	ASCE 7	2016
1609.1.3	Testing to Allowable or Nominal Loads	ASCE 7	2016
1625.2	Load Tests, Testing Method (HVHZ)	TAS 202	1994
1625.4	Fatigue Load Testing (HVHZ)	TAS 203	1994
1626.2	Large Missile Impact Test	TAS 201, 203	1994
1709.2	Load Test Procedures Specified	ASTM E330 (Ch 35)	2014



FBC-R Section	Description	Referenced Standard or Code Section <sup>1</sup>	Year
202	Noncombustible Material (Def.)	ASTM E136	2016
R703.1.1	Water Resistance	ASTM E331	2009
R703.1.2	Wind Resistance	ASTM E330	2014
R703.1.2	Wind Resistance	Tables R301.2(2) & R301.2(3)	2020
R703.3	Siding Minimum Attachment and Minimum Thickness	Table R703.3(1)	2020
R703.3.1	Wind Limitations	Tables R703.3.1, R301.2(2) & R301.2(3)	2020
R4401.1	High Velocity Hurricane Zone – Exterior Wall Coverings (HVHZ)	FBC Ch 14	2020

1. Only the applicable reference standards and code sections sited in the main body text are listed. (-) indicates that the main body text covers the full explanation of the objective.

**Compliance Statement:** It is the opinion of Boca Engineering Co. that FastPlank Systems aluminum exterior wall cladding, installed as described in this report, has demonstrated compliance with the listed sections of the 2020 Florida Building Code (FBC) and Residential Code (FBC-R), inclusive of the requirements for High Velocity Hurricane Zone (HVHZ), in accordance with the code-referenced Standards.

Design and performance information can be found in Section 2 of this report.

This report has been prepared and reviewed on behalf of Boca Engineering Co. by:

Christopher Bowness, P.Eng., P.E.

Date



## Evaluation

## 1.0 PRODUCT DESCRIPTION:

**Fastplank Systems** are aluminum siding planks with fastening clips and trim accessories, serving as an exterior wall covering. Planks are cold-formed from 3/64-inch thick aluminum with a V-Notch<sup>™</sup> profile, available in widths of 4-inch or 6-inch and 16-ft lengths. The plank exterior surface is typically finished with a powder-coat paint in a variety of colors.

## 2.0 TECHNICAL EVALUATION:

## 2.1 INSTALLATION

- 2.1.1 Siding planks shall be installed in accordance with the Florida Building Code, manufacturer's published instructions and this report, subject to the Limitations in Section 3.
- 2.1.2 Wall framing construction and water resistive barrier for which the cladding are to be installed over shall be designed and installed in accordance with the Florida Building Code.
- 2.1.3 ASSEMBLY INSTALLATION DETAILS WITH DESIGN WIND PRESSURE See attachment 1 of this report, Tables 1.1 - 2.3 and assembly diagrams.



#### 2.2 CODE SECTIONS REVIEW:

FBC Section Description	<b>FBC Section</b>	Description
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703.5.1Non-Combustibility Tests, Elementary MaterialsFastPlank siding planks <u>uncoated</u> have been tested to and met the definition criteria as non-<br/>combustible in accordance with ASTM E136.

#### 703.5.2 Non-Combustibility Tests, Composite Materials

FastPlank siding planks coated with the typical paint exterior surface finish which measures less than the ¼-inch maximum thickness, has a flame spread index not greater than 50 when tested in accordance with ASTM E84 resulting within the definition as noncombustible material.

#### 1403.2 Exterior Walls, Weather Protection

A representative wall construction assembly with FastPlank siding installed on light-frame construction with a water-resistive barrier and flashing as described in this evaluation report has been tested to ASTM E331, under the conditions of FBC 1403.2 Exception 2. The tested assembly meets the criteria and conforms to this code section.

#### 1403.3 Exterior Walls, Structural

The structural design loads described in this report are in accordance with Ch 16 of the FBC.

#### 1404.5.1 Aluminum Siding

FastPlank siding has been tested and conforms to the requirements of AAMA 1402. The allowable design pressures published in this report have incorporated the modification stated in FBC 1404.5.1.

## 1405.1 Installation of Wall Coverings, General (HVHZ)

General installation instructions comply with the provisions of this section, and HVHZ assemblies comply with TAS 202 and 203, see this report commentary to FBC 1625 & 1626.

#### 1405.2 Installation of Wall Coverings, Weather Protection

FastPlank siding plank nominal thickness of 0.0469-inches exceeds the minimum thickness for aluminum siding (0.019-inches) listed in Table 1405.2. The proprietary corrosion-resistant fastening system has been tested to the code-level environmental loading criteria.

#### 1609.1.1 Determination of Wind Loads

Wind load pressure (psf) applied to the cladding for use with the design values published in this report are determined in accordance with Chapter 30 of ASCE 7.

1609.1.3Testing to Allowable or Nominal LoadsThe ASD conversion factor of tested allowable loads has been applied in accordance with this<br/>code section.

#### **1625.2** Load Tests, Testing Method (HVHZ) A representative test assembly for HVHZ applications was tested to FBC standard TAS 202.



#### 1625.4 Fatigue Load Testing (HVHZ)

The representative test assembly for HVHZ applications was tested to FBC standard TAS 203 following the load sequencing of FBC 1625.4.

#### 1626.2 Large Missile Impact Test

The representative test assembly for HVHZ applications was tested to FBC standards TAS 201 and TAS 203 for large missile impact and complied with the criteria of FBC 1626.2. Wood-based structural sheathing of 7/16-inch thickness was installed in the test assembly, providing for a tested alternative solution substitution to FBC 1626.4 and 2322.3 specified minimum 19/32-inch (15 mm) CD exposure 1 plywood sheathing which does not require impact testing.

#### 1709.2 Load Test Procedures Specified

The load test procedure and load factors in FBC referenced standards ASTM E330 (non-HVHZ) and TAS 202 (HVHZ) were used.

#### FBC-R Section Description

#### 202 Noncombustible Material (Def.)

FastPlank siding planks <u>uncoated</u> have been tested to for defining non-combustibility of elementary materials set forth in ASTM E136. Also see this report commentary to FBC 703.5.1 and 703.5.2.

#### R703.1.1 Water Resistance

Same as this report commentary to FBC 1403.2.

#### R703.1.2 Wind Resistance

The load test procedure and load factors in FBC referenced standard ASTM E330 were used to determine allowable wind pressure.

#### R703.1.2 Wind Resistance

Allowable wind pressure values published in this report may be used with Tables R301.2(2) and R301.2(3) for walls using an effective wind area of 10 square feet.

#### Table R703.3(1) Siding Minimum Attachment and Minimum Thickness

FastPlank siding plank nominal thickness of 0.0469-inches exceeds the minimum thickness for aluminum siding (0.019-inches) listed in Table R703.3(1). The proprietary corrosion-resistant fastening system has been tested to the code-level environmental loading criteria.

#### R703.3.1 Wind Limitations

Where wind pressure exceeds 30 psf, see published allowable pressures in this report and further commentary to sections R703.1.2 and R703.3(1).

# R4401.1 High Velocity Hurricane Zone – Exterior Wall Coverings (HVHZ)

Refers user to FBC Ch 14. See this report commentary to FBC 1405.1.



### 3.0 LIMITATIONS:

- 3.1 This Evaluation is for the base code requirements of the building system as addressed in this report. In some building applications, additional performance objectives may be required by Code which must be addressed in the building design for those specific cases.
- 3.2 Design calculations, drawings, and special inspections are to be furnished for building projects by registered professionals as required by the respective jurisdictional authorities and Codes.
- 3.3 Wall assemblies with FastPlank siding, to achieve the wall assembly water-resistance performance standards as stated in this report, must be constructed with the components of water-resistive barrier per FBC 1404.2 or R703.2, and flashing per FBC 1405.4 or R703.4.
- 3.4 Screws supplied with the siding planks are Ruspert coated corrosion-resistant in accordance with FBC 1405.17. The supplied screws must be used to install the siding planks and trim accessories.
- 3.5 Wall framing and sheathing to which the siding is attached must be designed and installed for the applicable wind pressure and other climate and occupancy loads as required by Code for the construction project. Where framing and sheathing details are provided in this report, they are representing the minimum tested or calculated materials for the required strength of attachment for the wall cladding. The wall framing structural design and performance is outside the scope of this report.
- 3.6 FastPlank siding used in HVHZ light-framed wall construction shall be installed over minimum 7/16-inch CD exposure 1 plywood or product approved wood-based structural sheathing in accordance with FBC 2322.3, and framing shall be in accordance with the HVHZ sections of FBC Ch 22 or 23.
- 3.7 Scope of evaluation does not include siding applications where interior or exterior wall Fire Resistance rating is required.
- 3.8 Clearance between exterior wall coverings and final earth grade on the exterior of a building shall not be less than 6 inches, in accordance with FBC 1403.8.

#### 4.0 FIRE CLASSIFICATION:

Summary of fire performance classifications found by testing to code referenced standards: ASTM E136: Unfinished plank meets definition of <u>non-combustible</u>. ASTM E84: Flame Spread Index (FSI): < 25, Smoke Developed Index (SDI): < 450, Class A

#### 5.0 QUALITY ASSURANCE ENTITY:

The products evaluated in this report are surveyed at the approved manufacturing locations with third-party quality assurance inspections and product certification labeling by Intertek.

#### 6.0 MANUFACTURING PLANTS:

Calgary, AB

#### 7.0 LABELING:

Labeling shall be in accordance with the requirements of the FBC, and the Accredited Quality Assurance Agency.

#### 8.0 EVALUATION RENEWALS:

This Evaluation Report expires Dec 31, 2023, open to renewal, and is valid until such time as the named product(s) changes, the Quality Assurance Agency changes, the report is amended, or provisions of the Code that relate to the product change.



<u>Entity</u>	Entity Accreditation <sup>1</sup>	<u>Standards</u>	Report No.	Issued Date
Intertek	IAS TL-274	ASTM E136	104572653COQ-003	2021-04-27
Intertek	IAS TL-274	ASTM E84	104572653COQ-004	2021-03-18
Intertek	IAS TL-274	ASTM E331	104634983COQ-002A	2021-07-23
Intertek	IAS TL-274	AAMA 1402	104352869COQ-003B	2021-09-23
Intertek	IAS TL-274	TAS 201/202/203	104352869COQ-003A	2021-10-14
Intertek	IAS TL-274	ASTM E330	104352097COQ-002	2021-05-06
Intertek	IAS TL-274	ASTM E330	104352869COQ-022A	2021-08-10
Boca Eng.	Note 2	Structural Calculations	0093-4-1	2022-01-24
Intertek	IAS AA-647	Quality Assurance	FAM	May 2022

## 9.0 REFERENCE TESTING AND EVALUATION DOCUMENTS:

 Testing, certification, evaluation, and inspection agencies referenced have been verified to be accredited by the International Accreditation Service (www.iasonline.org) for the applicable scope, in good standing on the date of the evaluation, in accordance with ISO 17025 and ISO 17020 international standards for testing and inspection bodies.

2. Professional Engineer sealed report.

#### **10.0 CERTIFICATION OF INDEPENDENCE:**

- 1. Boca Engineering Co., it's employees and shareholders, do not have, nor do they intend to or will acquire, a financial interest in any company manufacturing or distributing products that they evaluate.
- 2. Boca Engineering Co. is not owned, operated or controlled by any company manufacturing or distributing products that they evaluate.

#### **11.0 EVALUATION REPORT TERMS:**

This report is a general evaluation of the building code section requirements as identified and applies only to the samples that were evaluated. It does not imply any endorsement or warranty, nor that the signatory Engineer is the Designer of Record of any construction project for which the information is used.

#### ATTACHMENTS:

1. Wind Pressure Assembly Tables and Diagrams (11 pages)



#### ATTACHMENT 1: FASTPLANK SIDING WIND PRESSURE ASSEMBLY TABLES & DIAGRAMS

The FastPlank siding wind pressures and wind speed conversion tables have been developed to assist users with determining appropriate installation details for a range of wall construction components, building dimension plans, and site and environmental conditions.

Wind speed conversion tables have been prepared following design methodology of ASCE7-16, Ch. 30.3, for low-rise buildings with maximum height of 60 ft, for enclosed buildings with topographic and elevation factors set to unity. These settings are typical of many installations, and consistent with the prescriptive approach used in FBC-R Table R301.2(2). All conditions must be consistent with Table Notes 1-16 and the details within the wind speed conversion tables to be considered valid. If the actual site, building dimension or climatic conditions (including the given variables) differ from those prescribed, the allowable pressure values may be used to calculate adjusted wind speed limits.

For building heights over 60 ft, the Allowable Pressure (ASD) values listed in the wind uplift tables may be used by a licensed design professional to calculate ultimate wind speed and/or allowable height for the given product installation detail and building project conditions.

At any building height, when the Allowable Pressure (ASD) has been pre-determined by the designer or building official, the user only needs to check that the installation detail is shown as capable of that pressure or greater.

#### Tables 1 - 4, Notes:

- The siding has been tested to the published allowable pressures at the respective bending limitation of L/180 for wall heights up to 10 ft. Wall framing and sheathing to which the siding is attached must be designed and installed for the applicable wind pressure and other climate and occupancy loads as required by Code for the construction project. Where framing and sheathing details are provided in these tables, they are representing the minimum tested or calculated materials for the required strength of attachment for the wall cladding.
- 2) Allowable pressure (psf) (ASD) non-HVHZ represents tested assembly ultimate pressure divided by safety factor of 2.
- 3) Wood framing minimum nom. 2x4 species SPF No. 2 or better. Members may be substituted with i) any larger section dimension of the same material, and/or, ii) any species/grade of 0.42 specific gravity or greater.
- 4) Steel framing minimum dimensions 1-5/8 x 3-5/8, with minimum yield strength of 33 ksi and 18 ga (43 mil) thickness. The framing members may be substituted with i) any larger section dimension of the same material, and/or, ii) any greater yield strength and/or gauge thickness.
- 5) Plywood Sheathing: Min. 15/32, 0.42 SG, 4-ply Exposure 1, complying with NIST DOC PS 2. Plywood sheathing may be substituted with thicker profile of up to nominal 1-inch, and any specific gravity greater than 0.42.
- 6) OSB Sheathing: Min. 7/16, Exposure 1, complying with NIST DOC PS 2. OSB sheathing may be substituted with thicker profile of up to nominal 1-inch.
- 7) Gypsum sheathing must comply with ASTM C1396 and be rated by the manufacturer for exterior use; gypsum thickness may not be increased.
- 8) Fasteners supplied with FastPlank siding must be used.
- 9) Further assembly details provided the diagrams in this report are to be followed.
- 10) Allowable pressure (psf) (ASD) for assemblies in HVHZ determined in accordance with TAS 202 and 203.
- 11) Table limiting heights and wind velocity values are for low-rise buildings of maximum 60 ft height, developed in accordance with ASCE7-16, Table 30.3-1. Design input values: GC<sub>p</sub> = -1.4, GC<sub>pi</sub> = 0.18, K<sub>zt</sub> = 1, K<sub>d</sub> = 0.85, K<sub>e</sub> = 1, I<sub>w</sub> = 1.0.
- 12) Wind speed conversion corresponds to the maximum Zone 5 pressure with effective area of 10 ft<sup>2</sup>. Table wind speeds are only valid under the design conditions stated. For other site conditions and/or building dimensions, designers can use the published Allowable Pressure (psf) (ASD) to determine allowable wind speeds with FBC-R Table R301.2(2) or calculations to FBC Ch 16.
- 13) Wind exposure categories as defined in ASCE7-16, section 26.7.
- 14) Interpolation not permitted. For heights in between those listed, use next highest height column.
- 15) NA indicates that the installation condition is not acceptable within the design limits of the table.
- 16) To convert to Factored Design Resistance Pressure (psf) (LRFD), multiply Allowable Pressure (psf) (ASD) by 1.67.



Tab	Table 1.1: Wind Assembly Details with FastPlank P44V and P46V planks - 2020 FBC Non-HVHZ Applications         Wall Height Limit of 10 ft, Bending Deflection Limit of L/180 <sup>1,9</sup>												
ASSEMBLY NO.	MIN. <sup>3,4</sup> FRAMING	MIN. <sup>5,6,7</sup> SHEATHING	STUDS SPACED @	FASTPLANK CLIP HORIZONTAL SPACING	CLIP FASTENER SPECIFICATION <sup>8</sup>	FASTENER SUBSTRATE	Allowable Pressure (psf) (ASD) <sup>2,16</sup>						
1	Nominal 2x SPF No. 2 wood	7/16 in. OSB	16 in.	32 in.	#10 x 1-3/4 in. screw	Studs only	70						
2	Nominal 2x SPF No. 2 wood	7/16 in. OSB + 5/8 in. Ext. Gyp	16 in.	32 in.	#10 x 2-1/4 in. screw	Studs only	70						
3	Nominal 2x, 33 ksi,18 ga steel	1/2 in. Ext. Gypsum	16 in.	32 in.	#12 x 1-1/2 in. screw	Studs only	69						
4	Nominal 2x, 33 ksi, 18 ga steel	7/16 in. OSB	16 in.	32 in.	#12 x 1-1/2 in. screw	Studs only	70						

	Table 1.2: Wind Assembly Details with FastPlank P24V and P26V planks Wall Height Limit of 10 ft, Bending Deflection Limit of L/180												
ASSEMBLY NO.	MIN. FRAMING	MIN. SHEATHING	STUDS SPACED @	FASTPLANK CLIP HORIZONTAL SPACING	CLIP FASTENER SPECIFICATION	FASTENER SUBSTRATE	Allowable Pressure (psf) (ASD)						
5	Nominal 2x SPF No. 2 wood	7/16 in. OSB	16 in.	32 in.	#10 x 1-3/4 in. screw	Studs only	90						
6	Nominal 2x SPF No. 2 wood	7/16 in. OSB + 5/8 in. Ext. Gyp	16 in.	32 in.	#10 x 2-1/4 in. screw	Studs only	90						
7	Nominal 2x, 33 ksi,18 ga steel	1/2 in. Ext. Gypsum	16 in.	32 in.	#12 x 1-1/2 in. screw	Studs only	90						
8	Nominal 2x, 33 ksi, 18 ga steel	7/16 in. OSB	16 in.	32 in.	#12 x 1-1/2 in. screw	Studs only	90						

Table 1.3:	Table 1.3: Maximum Wind Speeds of Wall Cladding Installed at Various Building Heights and         Exposure Categories - 2020 FBC Non-HVHZ <sup>11</sup>												
FastPlank	Allowable	Fire a suma		Maxi	mum Wi	nd Spee	d V <sub>ult</sub> (m	ph) <sup>12</sup>					
Assembly	Pressure	Exposure Category <sup>13</sup>			Building	g Height	(ft) <sup>14,15</sup>						
No.	(psf)(ASD) <sup>16</sup>	category	15	20	25	30	40	50	60				
		В	210	210	210	210	210	210	210				
5, 6, 7, 8	90	С	210	210	210	210	205	200	197				
		D	206	201	197	194	189	185	182				
		В	210	210	210	210	210	205	200				
1, 2, 4	70	С	200	194	190	186	181	176	174				
		D	182	177	174	171	167	163	161				
		В	210	210	210	210	210	203	198				
3	69	С	198	193	189	185	179	175	173				
		D	180	176	173	170	166	162	160				

See page 7 for User's Guide and Table Notes 1-16.



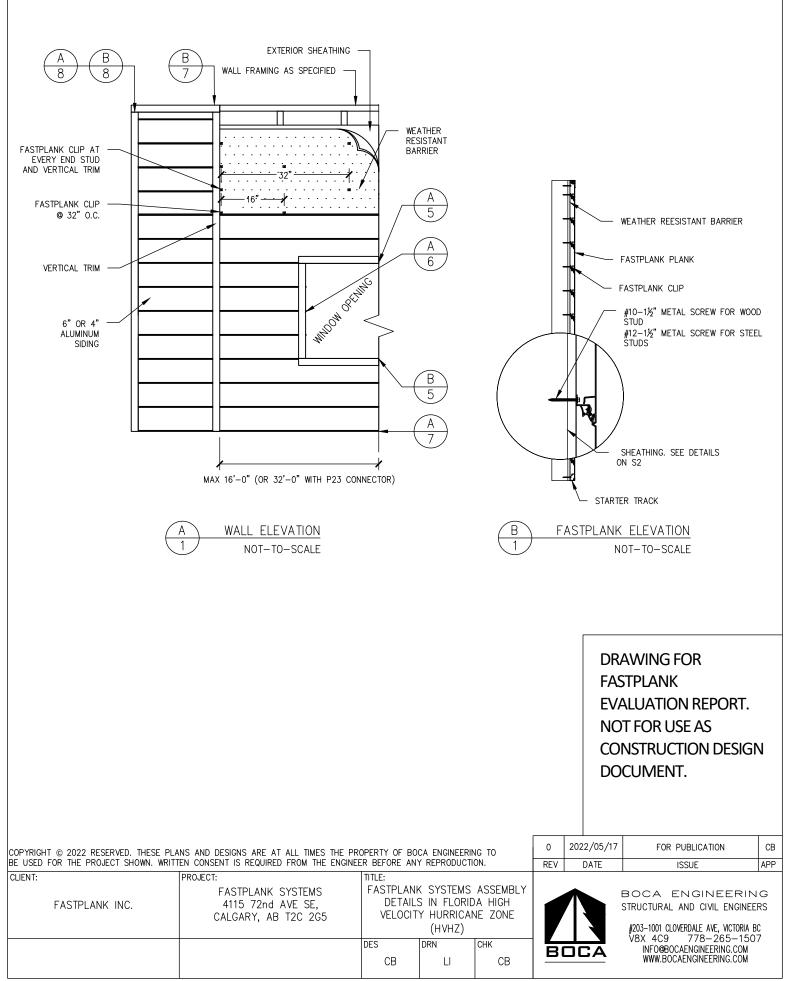
Tab	Table 2.1: HVHZ Wind Assembly Details with FastPlank P44V and P46V planks - 2020 FBC HVHZ Applications         Wall Height Limit of 10 ft, Bending Deflection Limit of L/180 <sup>1,9</sup>											
ASSEMBLY MIN. <sup>3,4</sup> MIN. <sup>5,6,7</sup> ST NO. FRAMING SHEATHING SPAC				FASTPLANK CLIP HORIZONTAL SPACING	CLIP FASTENER SPECIFICATION <sup>8</sup>	FASTENER SUBSTRATE	Allowable Pressure (psf) (ASD) <sup>10,16</sup>					
9	Nominal 2x SPF No. 2 wood	7/16 in. Plywood	16 in.	32 in.	#10 x 1-3/4 in. screw	Studs only	70					
10	Nominal 2x, 33 ksi, 18 ga steel	7/16 in. Plywood	16 in.	32 in.	#12 x 1-1/2 in. screw	Studs only	70					

Tab	Table 2.2: HVHZ Wind Assembly Details with FastPlank P24V and P26V planks - 2020 FBC HVHZ Applications         Wall Height Limit of 10 ft, Bending Deflection Limit of L/180 <sup>1,9</sup>											
ASSEMBLY MIN. <sup>3,4</sup> MIN. <sup>5,6,7</sup> STUD NO. FRAMING SHEATHING SPACED				FASTPLANK CLIP HORIZONTAL SPACING	CLIP FASTENER SPECIFICATION <sup>8</sup>	FASTENER SUBSTRATE	Allowable Pressure (psf) (ASD) <sup>10,16</sup>					
11	Nominal 2x SPF No. 2 wood	7/16 in. Plywood	16 in.	32 in.	#10 x 1-3/4 in. screw	Studs only	90					
12	Nominal 2x, 33 ksi, 18 ga steel	7/16 in. Plywood	16 in.	32 in.	#12 x 1-1/2 in. screw	Studs only	90					

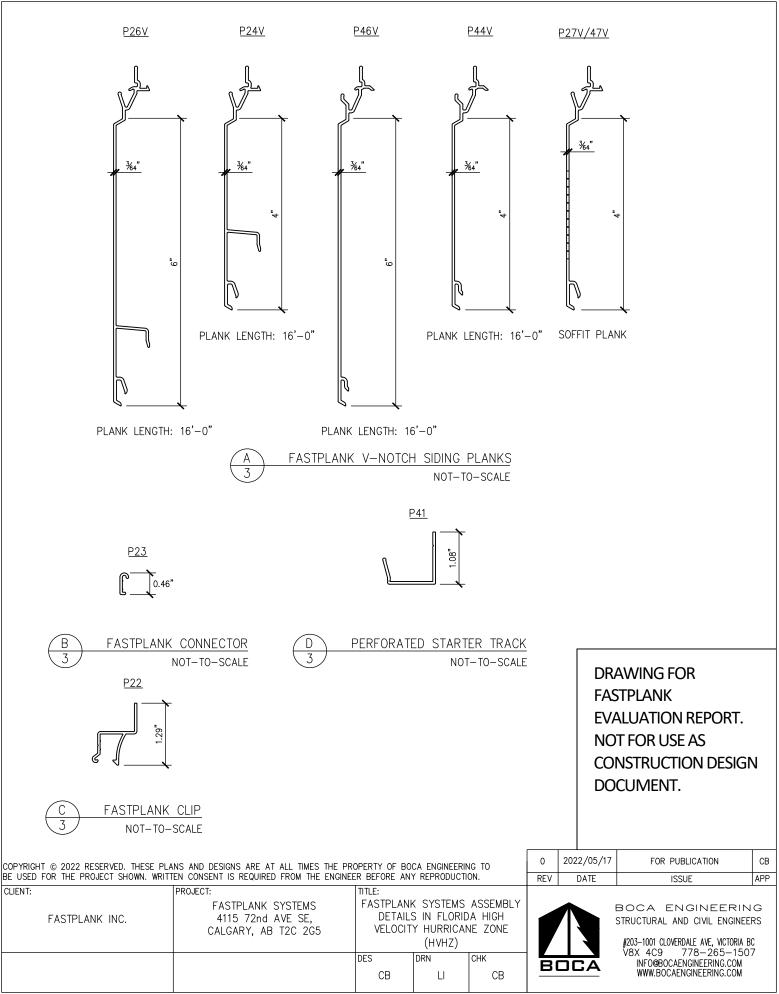
	Table 2.3: HVHZ Maximum Wind Speeds of Wall Cladding Installed at Various Building Heightsand Exposure Categories - 2020 FBC High Velocity Hurricane Zone (HVHZ) <sup>11</sup>												
FastPlank	Allowable	-		Maxi	mum Wi	ind Spee	d V <sub>ult</sub> (m	nph) <sup>12</sup>					
Assembly	Assembly Pressure No. (psf)(ASD) <sup>16</sup>	Exposure Category <sup>13</sup>			Buildin	g Height	(ft) <sup>14,15</sup>						
No.		Category	15	20	25	30	40	50	60				
		В	210	210	210	210	210	210	210				
11, 12	90	С	210	210	210	210	205	200	197				
		D	206	201	197	194	189	185	182				
		В	NA	NA	NA	NA	NA	NA	NA				
9, 10	9, 10 70	С	200	194	190	186	181	176	174				
		D	182	177	174	171	167	163	161				

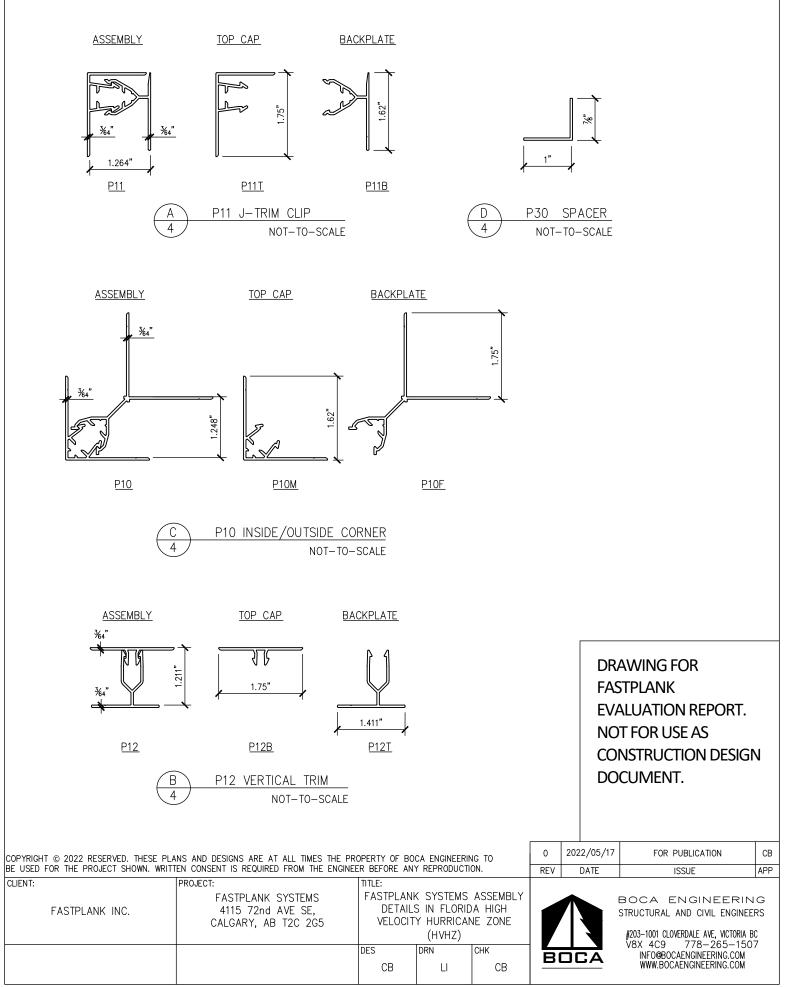
See page 7 for User's Guide and Table Notes 1-16.

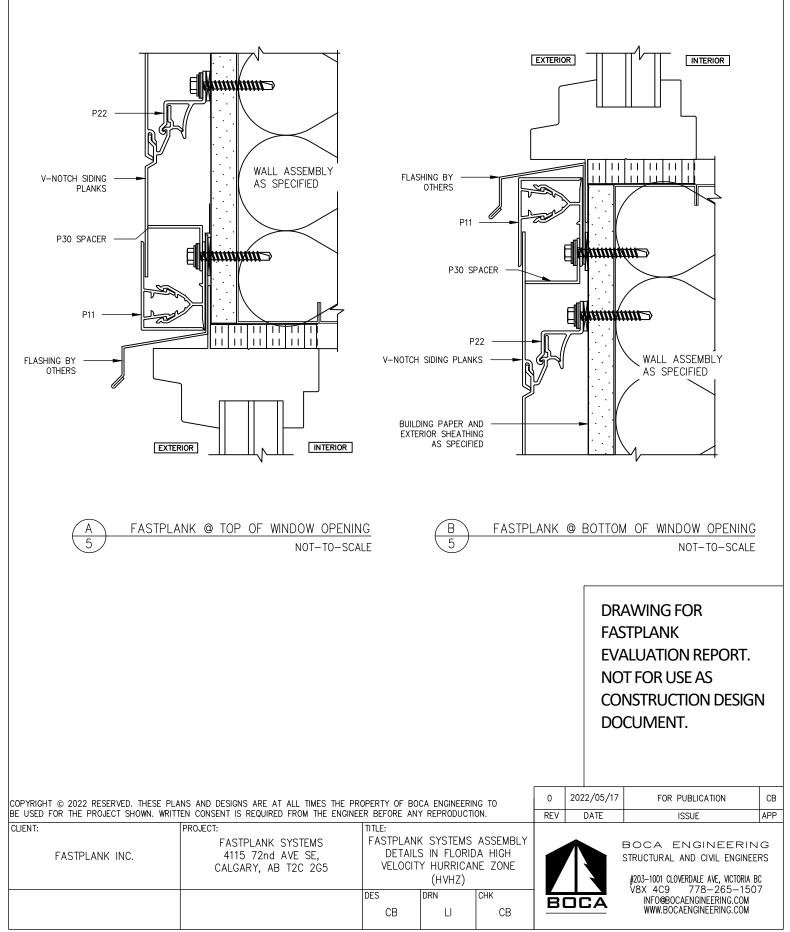
ASSEMBLY DIAGRAMS BEGIN NEXT PAGE

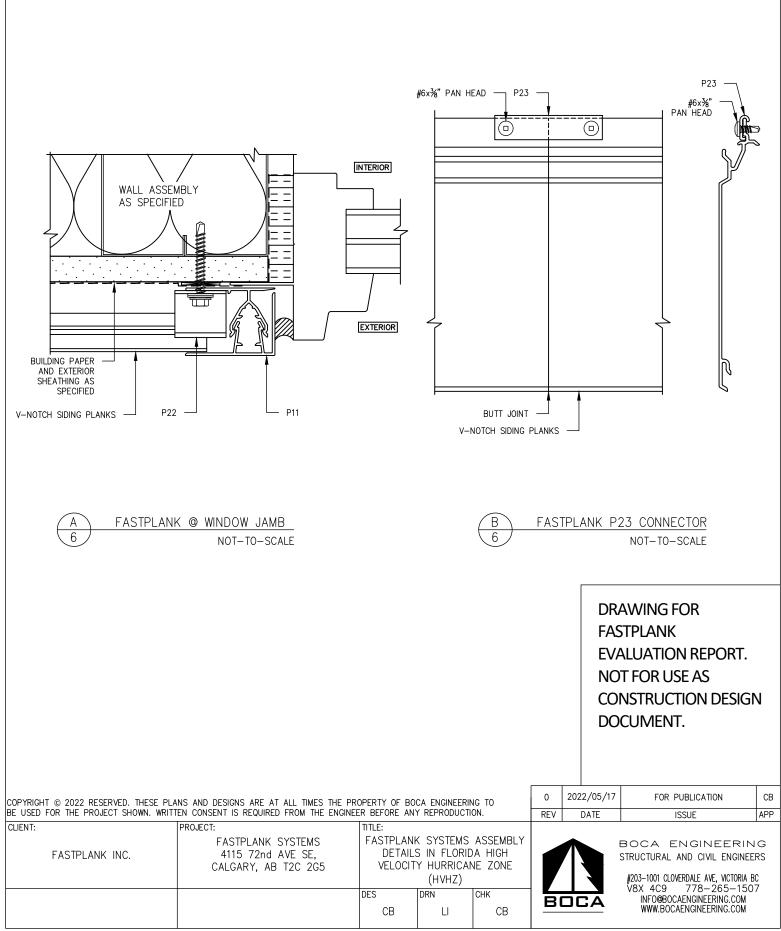


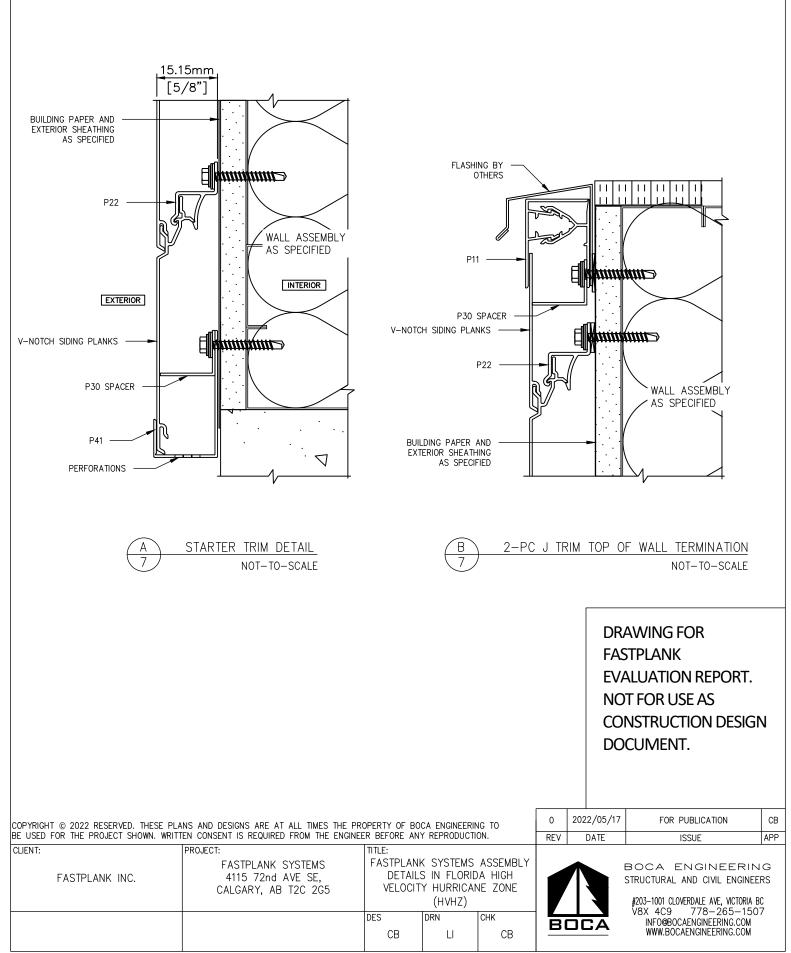
		LIGH	IT-FRAMED S	STUD WALL	INSTALLA	TION INTE	RIOR TO	EXTERIOR		
		1 MIN. 2x4 SPF No.2 WOOD STUDS @ 16" O.C.								
		2 MIN. 7/6" PLYWOOD SHEATHING.								
		3 W	3 WATER RESISTIVE BARRIER TO CODE							
		4 1)	4 1½" #10-16 WOOD SCREWS @ EACH CLIP MIN. 32" O.C.							
A FASTPLANK OV	ER WOOD STUDS NOT-TO-SCALE	5 FASTPLANK CLIP @ 32" O.C HORIZONTALLY AND @ EVERY END STUD AND VERTICAL TRIM						VERY END		
		6 F/	ASTPLANK SI	DING						
			HOR FINISH AI HING: (NOT S ATIONS.							
$(1)_{1}(2)_{1}(3)_{1}(4)_{-}$	- (5)- (6)-	LIGHT-FRAMED STUD WALL INSTALLATION INTERIOR TO EXTERIOR						EXTERIOR		
			1 MIN 1%"x6 18GA 33ksi STEEL STUDS @ 16" O.C.							
		2 MIN. 3/6" PLYWOOD SHEATHING.								
	/ER_STEEL_STUDS NOT-TO-SCALE	3 W	ATER RESIST	IVE BARRI	ER TO COD	E				
		4 13	4 1½" #12-16 METAL SCREWS @ EACH CLIP MIN 32" O.C.							
B FASTPLANK OV		5 FASTPLANK CLIP @ 32" O.C HORIZONTALLY AND @ EVERY END STUD AND VERTICAL TRIM								
			ASTPLANK SI	DING						
			HOR FINISH AI HING: (NOT S ATIONS.							
TESTING AND CODE COMPLIANCE           1. THE SIDING PRODUCT ASSEMBLY SHOW HAS BEEN EVALUATED ACCORDING TO 201-94, TAS 202-94, TAS 203-94.           2. THE STRUCTURAL FRAMING AND SHEA ALL LOADS TO THE STRUCTURE. FRAM FOR THE PROJECT OF INSTALLATION.           3. THESE DRAWINGS APPLY TO THE TEST RECORD FOR ANY FUTURE CONSTRUCT           4. SOME NON-STRUCTURAL COMPONENTS MAY INCLUDE: FLASHING, INTERIOR INST	THE ASSEMBLY HAS SUCCESSFU THING SHALL BE DESIGNED AND IING DESIGN AND INSTALLATION I IING ASSEMBLY ONLY AND DO NI ITON ON WHICH THEY ARE USED. 8 NOT SHOWN AND DO NOT IMPA	LY BEEN T ANCHORED S THE RES DT IMPLY T	ESTED TO AN AS TO PROVIDE LA PONSIBILITY OF 1 HAT THE SIGNAT	D DESIGN PF TERAL BRACIN THE ENGINEER DRY ENGINEEI	RESSURE OF 95 NG AND PROPE OR ARCHITEC R IS THE DESIG	opsf RLY TRANSF T OF RECOR	ER D			
INSTALLATION THE INSTALLATION DETAILS DESCRIBED ART SPECIFIC SITE. IF SITE CONDITIONS DEVIATE SITE-SPECIFIC DOCUMENTS SHALL BE USEI	E FROM THE REQUIREMENTS DET.	ASSEMBLY . AILED HERE	AND MAY NOT RI IN, THE LICENSEI	EFLECT ACTU ENGINEER (	AL CONDITIONS DR ARCHITECT	FOR A PREPARED		WING FOR		
SHEATHING 1. WOOD-BASED STRUCTURAL SHEATHING TO CONFORM TO US DOC PS1-09 OR PS2-10 U. 2. DRYWALL SHEATHING TO CONFORM TO ASTM C1396							_	TPLANK LUATION REPOR	T.	
FASTENERS 1 WOOD SCREWS TO CONFORM TO ASME B18.6.1 U.N.O.										
2. METAL SCREWS TO CONFORM TO ASTM C1513								ISTRUCTION DES	IGN	
ERAMING         1. METAL FRAMING MEMBERS MINIMUM 18 GAUGE U.NO., 33ksi, COMPLIANCE WITH ANSI S100–16         2. WOOD FRAMING MIN. 2x4 S.G. 0.42, COMPLIANCE WITH US DOC PS20–05								LUMENT.		
ALUMINUM 1. ALUMINUM TO CONFORM TO AAMA1402-	-09, GRADE 6063-T6									
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	PROJECT: FASTPLANK SYSTEI		TITLE: FASTPLANK				I			
FASTPLANK INC.	4115 72nd AVE S CALGARY, AB T2C 2	Ε,	DETAILS IN FLORIDA HIGH VELOCITY HURRICANE ZONE (HVHZ)				REAL AND CIVIL ENGINEER	GINEERS DRIA BC		
			DES CB	drn Li	снк СВ	BO	CA	V8X 4C9 778-265- INFO@BOCAENGINEERING.C WWW.BOCAENGINEERING.C	OM	

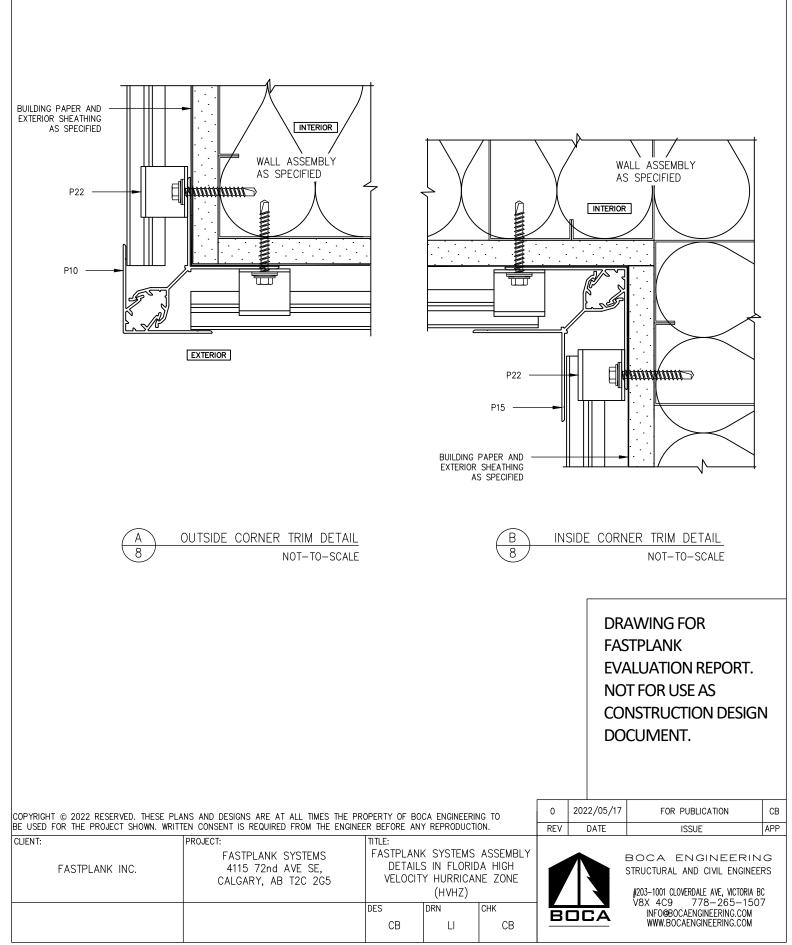














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