

Product Evaluation

EC124 | 0921

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: EC-124

Effective Date: September 1, 2021

Re-evaluation Date: September 2025

Product Name: FASTPLANK™ Aluminum Plank Siding System

Manufacturer: FastPlank Systems Inc.
4115 72nd Avenue SE
Calgary, AB T2C 2G5
(778) 265-1507

General 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" thick aluminum with a V-Notch™ profile, available in widths of 4" or 6" and 16' lengths. The plank exterior surface is typically finished with a powder-coat paint in a variety of colors.

Limitations:

Wall Framing: Wall framing must be either minimum 18-gauge steel or minimum Spruce-Pine-Fir dimension lumber. The wall framing is spaced a maximum of 16" on center.

New Wall Framing Attachment: The wall framing must meet or exceed the requirements of the IRC or IBC and must be installed as required for resistance to wind loads and to resist lateral loads.

Lateral Bracing: The aluminum siding planks must not be used to resist lateral loads.

Design Pressure: The allowable design pressure for the siding installation is specified in the Installation section of this evaluation report.

Installation:

General: The aluminum siding planks must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

The aluminum siding planks must be secured to walls framed with wood or steel studs and sheathed. Refer to each assembly for the maximum allowable spacing for the wall studs and for sheathing requirements.

A weather resistive barrier is required in accordance with the requirements of the IRC and IBC.

Fasteners must be corrosion resistant as required by the IRC and the IBC.

Wind Resistant Assemblies:

STEEL FRAMING APPLICATIONS

Assembly No. 1: 6" Fastplank V-Notch Siding P26

Starter Track: FastPlank Part No. P41

Panel Clip: FastPlank Part No. P22

Vertical Joints: FastPlank Part No. P10, P11, P12

Fastener: No. 12 x 1-1/2" hex head screw

Wall Framing: Minimum 3-5/8" steel studs, 18-gauge, 1-5/8" legs, spaced at 16" o.c.

Wall sheathing: Minimum 1/2" glass-mat gypsum sheathing

Design pressure: -95 psf

Assembly No. 2: 4" Fastplank V-Notch Siding P24

Starter Track: FastPlank Part No. P41

Panel Clip: FastPlank Part No. P22

Vertical Joints: FastPlank Part No. P10, P11, P12

Fastener: No. 12 x 1-1/2" hex head screw

Wall Framing: Minimum 3-5/8" steel studs, 18-gauge, 1-5/8" legs, spaced at 16" o.c.

Wall sheathing: Minimum 1/2" glass-mat gypsum sheathing

Design pressure: -120 psf

Installation: The planks are applied horizontally. The wall sheathing (minimum 1/2" exterior gypsum) is secured to the steel wall framing in accordance with IRC and IBC requirements. A perforated starter track, FastPlank Part No. P41, is fastened to the bottom plate of the wall frame with one (1) No. 12 x 1-1/2" long screw at 16" o.c. The panel clips, FastPlank Part No. P22, are secured to the steel wall studs with one (1) No. 12 x 1-1/2" long hex head self-drilling screw per clip applied over the sheathing aligned with the wall studs, spaced at 32" o.c. horizontally in a

vertically staggered pattern so that each wall stud has a fastening clip at every second course of planks. The planks are installed in courses starting from the bottom and moving up the wall height. Planks are snap fit in to the fastening clips. The plank ends are terminated with FastPlank Part No. P12 at mid-length vertical joints, FastPlank Part No. P10 at inside and outside corners, and FastPlank Part No. P11 at window and door openings. Vertical trim pieces are installed with No. 12 x 1-1/2" long screws into wall studs at 16" o.c. All fasteners must be long enough to penetrate completely through the wall framing members.

WOOD FRAMING APPLICATIONS

Assembly No. 3: 6" Fastplank V-Notch Siding P26

Starter Track: FastPlank Part No. P41

Panel Clip: FastPlank Part No. P22

Vertical Joints: FastPlank Part No. P10, P11, P12

Fastener: No. 10 x 1-1/2" hex head screw

Wall Framing: Minimum nominal 2x4 SPF dimension lumber spaced at 16" o.c.

Wall sheathing: Minimum 7/16" OSB sheathing

Design pressure: -97.5 psf

Assembly No. 4: 4" Fastplank V-Notch Siding P24

Starter Track: FastPlank Part No. P41

Panel Clip: FastPlank Part No. P22

Vertical Joints: FastPlank Part No. P10, P11, P12

Fastener: No. 10 x 1-1/2" hex head screw

Wall Framing: Minimum nominal 2x4 SPF dimension lumber spaced at 16" o.c.

Wall sheathing: Minimum 7/16" OSB sheathing

Design pressure: -132.5 psf

Installation: The planks are applied horizontally. The wall sheathing (minimum 7/16" OSB or plywood) is secured to the wood wall framing in accordance with IRC and IBC requirements. A perforated starter track, FastPlank Part No. P41, is fastened to the bottom plate of the wall frame with one (1) No. 10 x 1-1/2" long screw at 16" o.c. The panel clips, FastPlank Part No. P22, are secured to the wall studs with one (1) No. 10 x 1-1/2" long hex head self-drilling screw per clip applied over the sheathing aligned with the wall studs, spaced at 32" o.c. horizontally in a vertically staggered pattern so that each wall stud has a fastening clip at every second course of planks. The planks are installed in courses starting from the bottom and moving up the wall height. Planks are snap fit in to the fastening clips. The plank ends are terminated with FastPlank Part No. P12 at mid-length vertical joints, FastPlank Part No. P10 at inside and outside corners, and FastPlank Part No. P11 at window and door openings. Vertical trim pieces are installed with No. 10 x 1-1/2" long screws into wall studs at 16" o.c. All fasteners must be long enough to penetrate a minimum of 1" into the wall framing members.

Note: Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.