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LOS ANGELES, CA 90012

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Fastplank, Inc.  
4441 76 Ave SE, Suite #101  
Calgary, AB T2C 2G8

Attn: Maika Boila  
(403) 370-4822  
maika@easytrimreveals.com

RESEARCH REPORT: RR 26221  
(CSI # 07 46 16)

Expires: September 1, 2023  
Issued Date: September 1, 2022  
Code: 2020 LABC

**GENERAL APPROVAL** – General Approval – Exterior wall cladding, aluminum planks.

## DETAILS

Fastplank Systems are aluminum siding planks with fastening clips and trim accessories, serving as an exterior wall covering. Planks are extruded 3/64-inch thick aluminum with a V-Notch™ 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.

The sequence of plank installation proceeds horizontally, bottom to top. A perforated starter track, FastPlank Part No. P41, is fastened to the bottom plate of the wall frame with one 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 No. 10 x 1-1/2" long hex head self-drilling screws applied over the sheathing aligned with the wall studs, spaced at 32" o.c. horizontally in a vertically staggered pattern so that each 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 in to studs at 16" o.c. All fasteners must penetrate in to wood framing members a minimum of 1", or through steel framing members a minimum of 3/16".

RR 26221  
Page 1 of 4

Fastplank, Inc.

RE: Exterior wall cladding, aluminum planks

The Fastplank cladding system is installed over various approved substrates. A weather barrier is employed at the exterior surface of the sheathing onto which the aluminum plank system is installed. The weather barrier shall be installed, taped/sealed, per the manufacturer's installation instructions.

<b>Table x1: Wind Assembly Details with FastPlank P44V and P46V planks Wall Height Limit of 10 ft, Bending Deflection Limit of L/180</b>							
ASSEMBLY NO.	MIN. FRAMING	MIN. <sup>1</sup> SHEATHING	STUDS SPACED @	FASTPLANK CLIP HORIZONTAL SPACING	CLIP FASTENER SPECIFICATION	FASTENER SUBSTRATE	Allowable Pressure (psf) (ASD)
1	Nominal 2x SPF No. 2 wood	7/16 in. OSB	16 in.	32 in. staggered	#10 x 1-3/4 in. screw	Studs only	70
2	Nominal 2x SPF No. 2 wood	7/16 in. OSB + 5/8 in. Exterior Gypsum	16 in.	32 in. staggered	#10 x 2-1/4 in. screw	Studs only	70
3	Nominal 2x, 33 ksi, 18 ga steel	1/2 in. Exterior Gypsum	16 in.	32 in. staggered	#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. staggered	#12 x 1-1/2 in. screw	Studs only	70

<b>Table x2: Wind Assembly Details with FastPlank P24V and P26V planks Wall Height Limit of 10 ft, Bending Deflection Limit of L/180</b>							
ASSEMBLY NO.	MIN. FRAMING	MIN. <sup>1</sup> 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. staggered	#10 x 1-3/4 in. screw	Studs only	90
6	Nominal 2x SPF No. 2 wood	7/16 in. OSB + 5/8 in. Exterior Gypsum	16 in.	32 in. staggered	#10 x 2-1/4 in. screw	Studs only	90
7	Nominal 2x, 33 ksi, 18 ga steel	1/2 in. Exterior Gypsum	16 in.	32 in. staggered	#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. staggered	#12 x 1-1/2 in. screw	Studs only	90

Fastplank aluminum siding planks have been tested to the standards within Section 703.5 of the Los Angeles Building Code and meet the definition of noncombustible material.

Fastplank, Inc.

RE: Exterior wall cladding, aluminum planks

**The approval is subject to the following conditions:**

1. Each panel shall be labeled with the Fastplank, Inc. name and address, the product name, production date and research report number, LARR 26221.
2. The Fastplank aluminum wall cladding system shall be installed in accordance with the manufacturer's published installation instructions and this general approval.
3. Structural calculations demonstrating that applied loads are less than the allowable loads must be submitted to the Structural Plan Check Section for approval. The calculations shall be signed and sealed by a licensed civil or structural engineer, registered in the State of California.
4. The approval of the structural substrate to which the Fastplank aluminum wall cladding system is attached is beyond the scope of this approval. Structural calculations demonstrating the capacity of the substrate to support imposed loads must be submitted to the Structural Plan Check Section for review and approval. The calculations shall be signed and sealed by a licensed civil or structural engineer, registered in the State of California.
  - a. A licensed civil or structural engineer shall analyze the fasteners for pullout for use atop the specified sheathing and framing. The structural framing and sheathing shall be reviewed and approved by the Structural Plan Check Section.
5. Use of the Fastplank aluminum cladding system as bracing against lateral wind or earthquake forces is outside the scope of this approval.
6. Panels are manufactured in Calgary, AB under a quality control program with inspections by Intertek.

**DISCUSSION**

The report is in compliance with the 2020 City of Los Angeles Building Code.

The approval is based on structural calculations, tests and analysis in accordance with the following standards:

- ASTM E330, Standard Test Method for Structural Performance of Exterior Windows, Curtain walls and Door by Uniform Static Air Pressure Difference.
- ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Curtain wall and Doors by Uniform Static Air Pressure Difference.
- AAMA 1402, Standard Specifications for Aluminum Siding, Soffit and Fascia.

Fastplank, Inc.

RE: Exterior wall cladding, aluminum planks

- ASTM E136, Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C.
- ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this approval have been met in the project in which it is to be used.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

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EUGENE BARBEAU, Chief  
Engineering Research Section  
201 N. Figueroa St., Room 880  
Los Angeles, CA 90012  
Phone: 213-202-9812  
Email: [engineering-research@lacity.org](mailto:engineering-research@lacity.org)

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Attachments: FASTPLANK Profiles (3pgs)