

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION

Section: 07 46 00 – Siding

REPORT HOLDER:

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REPORT SUBJECT:

Fastplank Siding System

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2021 and 2018 *International Building Code*® (IBC)
- 2021 and 2018 *International Residential Code*® (IRC)

NOTE: This report references the most recent Code editions cited. Section numbers in earlier editions may differ.

1.2 The Fastplank Siding System has been evaluated for the following properties (see Table 1):

- Physical properties
- Surface burning characteristics
- Weather resistance
- Wind resistance
- Non-combustibility

1.3 The Fastplank Siding System has been evaluated for the following uses (see Table 1):

- Use as an exterior wall cladding on buildings of Types I, II, III, IV, and V construction under the IBC and construction permitted under the IRC

2.0 STATEMENT OF COMPLIANCE

Fastplank Siding System complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

3.1 Fastplank Siding System: Fastplank Systems are exterior wall coverings consisting of aluminum siding planks, fastening clips and trim accessories. The coated aluminum 16 ft. planks are extruded from 3/64 in. thick aluminum with a V-Notch™ profile. The planks are manufactured in 4 in. and 6 in. See Figure 1 for panel dimensions.

3.2 Fastening Clips: The fastening clips are illustrated in Figure 2. The clips are 1 in. wide aluminum extrusions. All additional trims are illustrated in Figure 3.

3.3 Fasteners: Fasteners are as noted in Table 2.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Physical Properties: The Fastplank Siding System complies with the requirements of AAMA 1402.

4.2 Flame Spread: The Fastplank Siding System has a flame spread index not exceeding 25 and a smoke developed index not exceeding 450 when tested in accordance with ASTM E84.

4.3 Wind Resistance: Allowable negative wind design pressures are given in Table 2 for Fastplank Siding Systems installed in accordance with Section 5.0.

4.4 When installed in accordance with this report, the Fastplank Siding System complies with the requirements for weather protection as per IBC Section 1402.2 and IRC Section R703.1.1.

4.5 Non-combustibility: The Fastplank Siding planks have been tested in accordance with IBC 703.3.1 and meet the criteria as non-combustible materials.

4.6 Corrosion Resistance: The Fastplank Siding planks have been exposed to 1000 hours in accordance with ASTM B117 and displayed no visible deleterious effects.



5.0 INSTALLATION

5.1 General: The Fastplank Siding System must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Application: The Fastplank Siding System shall be installed over an approved water-resistive barrier in accordance with Section 1403.2 of the IBC and Section R703.2 of the IRC. The water-resistive barrier is installed over OSB or plywood sheathing complying with IBC Section 2303.1.5 for wood-framed walls, and over gypsum sheathing complying with ASTM C1396 when installed over steel framing. See Table 2 for components and attachment.

The planks must be attached to framing using P22 clips and the fasteners described in Table 2.

For use in Types I, II, III, or IV construction on buildings greater than 40 feet above grade, evidence the water-resistive barrier complies with IBC Section 1402.5, Exception 2, or a report of testing in accordance with NFPA 285 and IBC Section 1402.5 for an assembly representative of the final construction, must be submitted to the building official.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Wind design pressures determined from allowable stress design (ASD) in accordance with the applicable Code shall not exceed the allowable wind design pressures identified in Table 2.

6.3 Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the Fastplank Siding System. Other methods of attachment are outside the scope of this report.

6.4 The Fastplank Siding System is manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with AAMA 1402, ASTM E330, ASTM E331, ASTM E84, ASTM B117, and ASTM E136.

7.2 Intertek Listing Report "Fastplank - Aluminum Siding", on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The components of the Fastplank Siding System are identified with the manufacturer's name (Fastplank Inc.), the product name (P44V and P46V), the Intertek Mark as shown below, the Intertek Control Number, and the Code Compliance Research Report number (CCRR-0480).



9.0 OTHER CODES

This section is not applicable.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.





TABLE 1 – PROPERTIES EVALUATED

PROPERTY	2021 IBC SECTION	2021 IRC SECTION
Exterior Wall Performance Requirements	1402	R703.1
Materials	1403.5.1	-
Weather Protection	1402.2/1404.2	R703.3
Wind Load Resistance	1609	R703.1.2
Non-Combustibility	703.3.1	-

TABLE 2 – WIND RESISTANCE
Fastplank Siding System Allowable Negative Design Pressure (psf)

Profile	Framing	Fastening	Clip Spacing ²	Minimum Sheathing ³	Allowable Negative Design Pressure (ASD) (psf) ^{4,5}
P44V and P46V	2 x 4 SPF ¹ #2 or BTR spaced 16 in. oc	#10 1-1/2 in. wood screws	32 in. oc staggered	7/16 in. OSB	70
	18 GA 33ksi, 3-5/8 in. x 1-5/8 in. steel stud spaced 16 in. oc	#12 1-1/2 in. metal screws		1/2 in. Exterior Gypsum	69

¹ Minimum Specific Gravity of 0.42

² Clips staggered 16 in. every second plank

³ Sheathing must comply with the Code

⁴ Allowable Negative Design Pressure based on the average ultimate load of the assemblies and a safety factor of 2

⁵ Maximum wall height of 10 ft. Wall deflection limit of L/180

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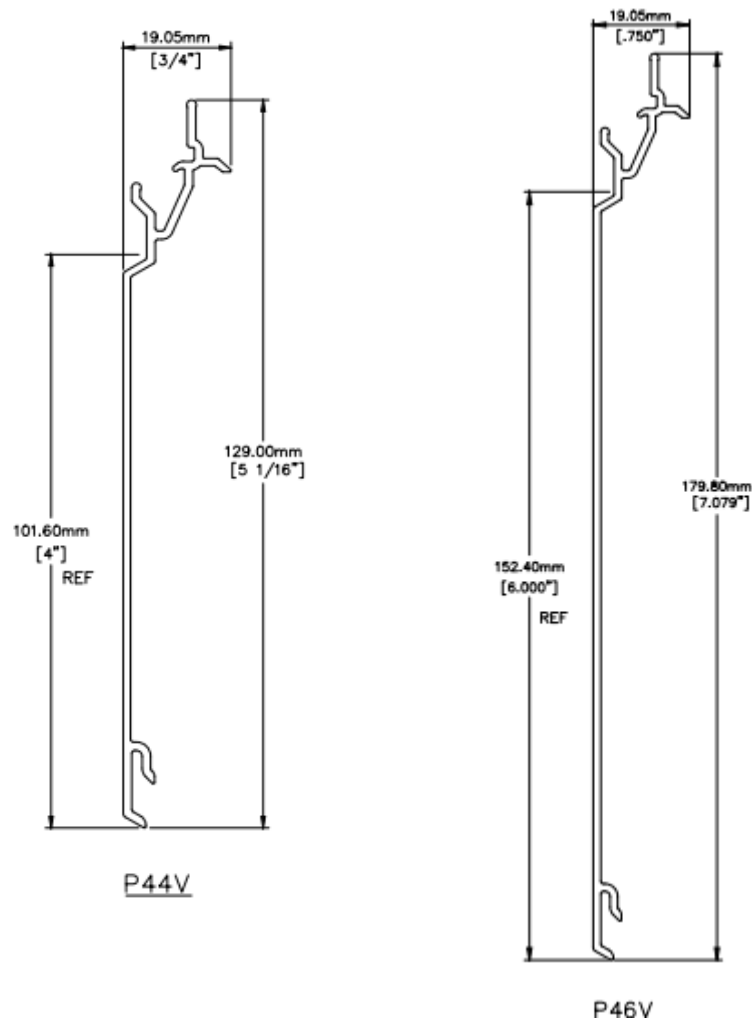


FIGURE 1 – PLANK DIMENSIONS

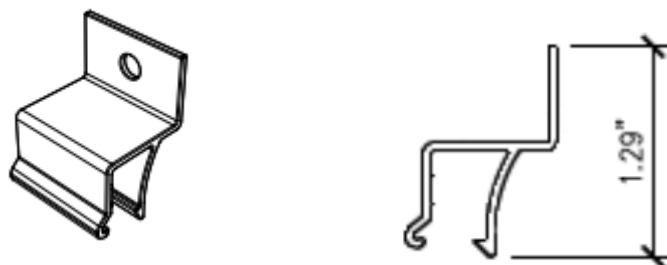


FIGURE 2 – FASTENING CLIPS

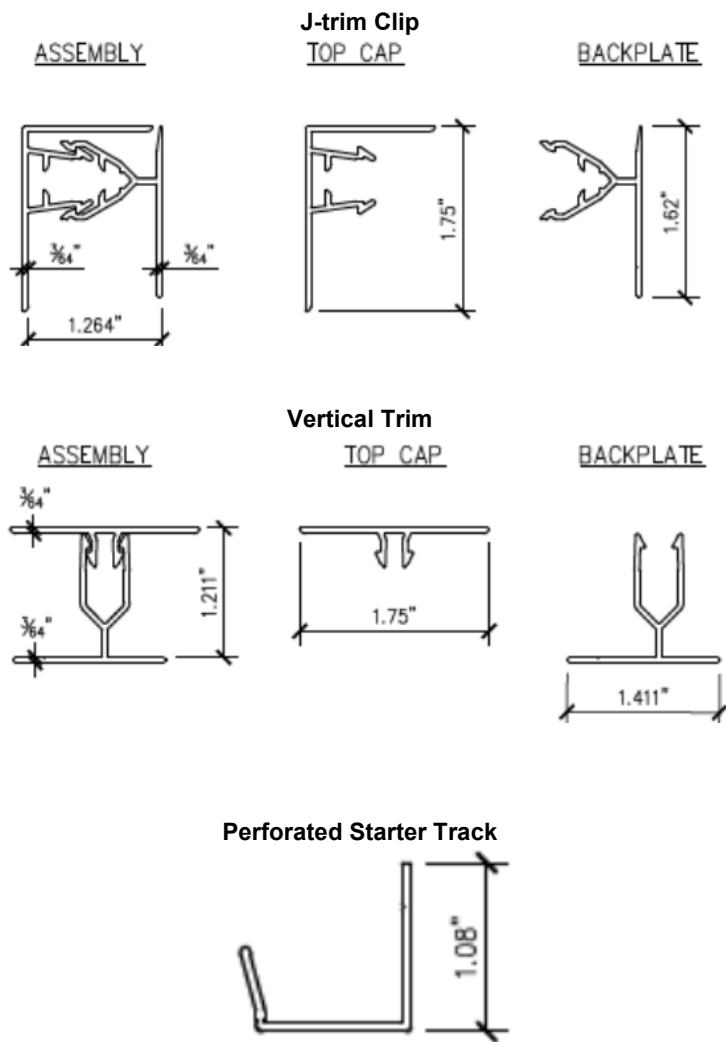


FIGURE 3 – TRIM AND ACCESSORIES

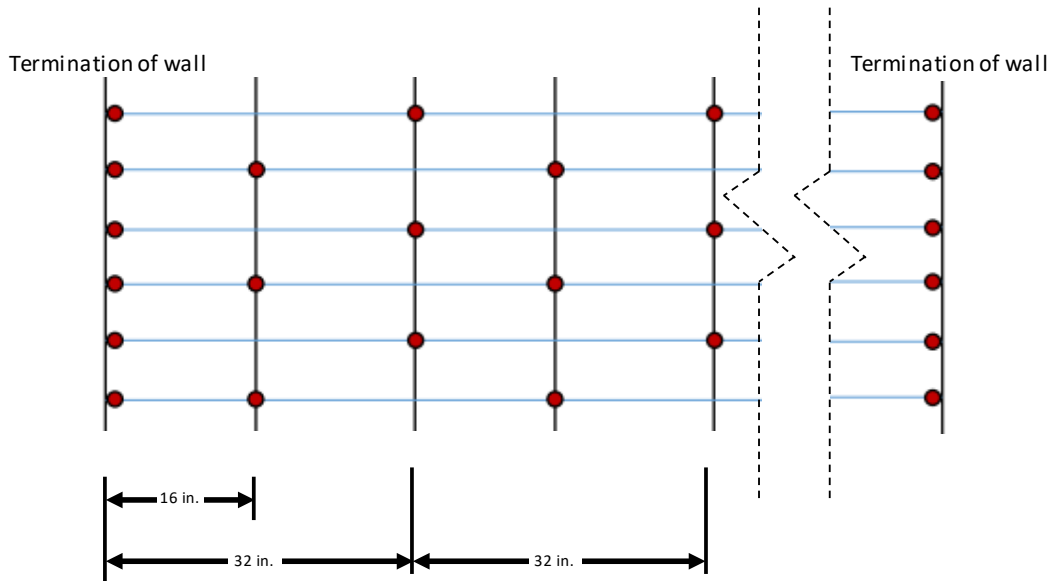


FIGURE 4 – CLIP INSTALLATION PATTERN

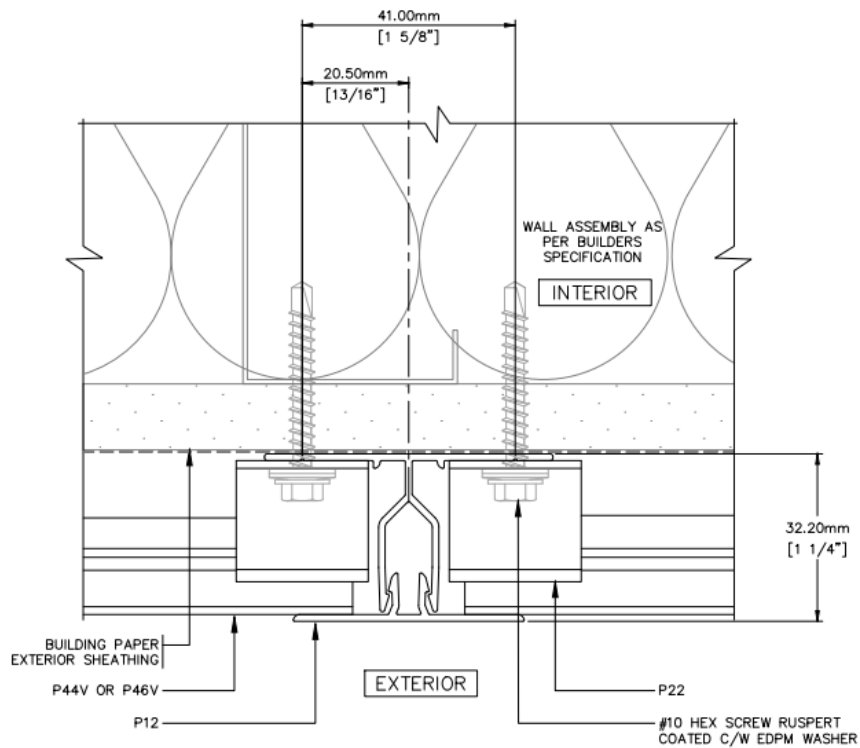


FIGURE 5 – TYPICAL INSTALLATION DETAIL