

Submittal **Package**

Submittal Form	>
Profile Legend	>
Project Gallery	>
Woodgrain and Solid Options	>
Typical Details	>
Specifications	>
Code Compliance Research Report	>
Environmental Health Declaration	>
Health Product Declaration	>
Installation Guide	>

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SUBMITTAL

Date

Date Due

Project Name

To

From

Subcontractor

Key #

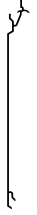
Description:

Notes:

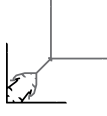
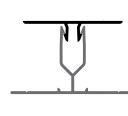
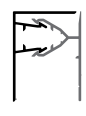
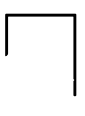
Submitted by

Signature

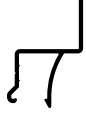
PLANKS Length: 16'

P46V  V-Notch® 6" Plank QTY per bundle: 6	P44V  V-Notch® 4" Plank QTY per bundle: 10	P47V  V-Notch® 4" Perforated Soffit Plank QTY per bundle: 10 Net Free Air Space 7.7 in ² /lin ft 163.3 cm ² /lin m
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TRIMS Length: 12'

P10  Inside/Outside Corner QTY Per Bundle: 5	P12  2-Piece Intermediate Trim QTY Per Bundle: 10	P11  2-Piece J Trim QTY Per Bundle: 10	P13  General J Trim QTY Per Bundle: 10	P41  Perforated Starter J QTY Per Bundle: 10
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CLIPS & CONNECTORS

P22  Plank Clip QTY Per Bag: 100	P23  Plank Connector QTY Per Bag: 50	P30  Plank Backer QTY Per Bag: 50
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ACCESSORIES

MS34  3/4" Metal Screw QTY Per Bag: 250	MS112  1-1/2" Metal Screw QTY Per Bag: 250	WS112  1-1/2" Wood Screw QTY Per Bag: 250
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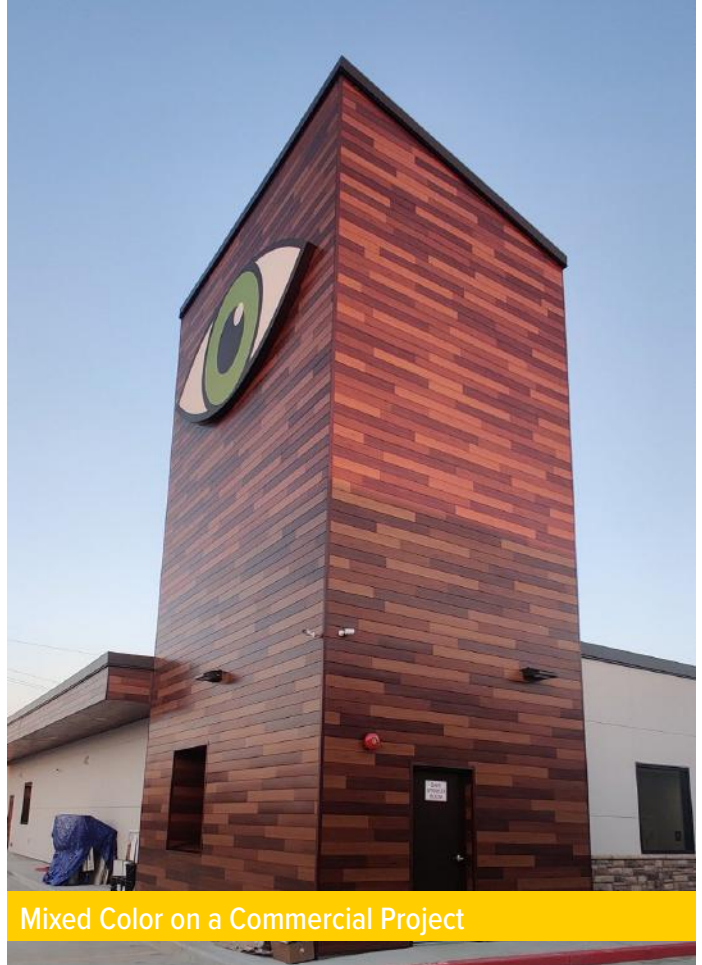
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Light Cherry Soffit



Dark Fit on a Residential Home



Mixed Color on a Commercial Project



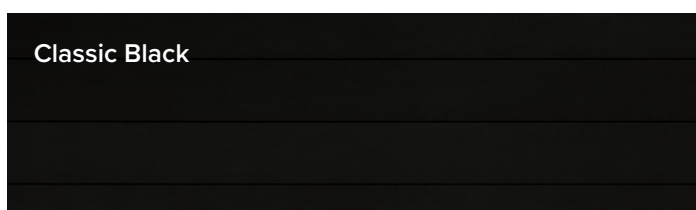
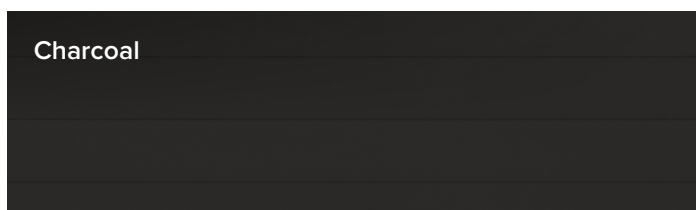
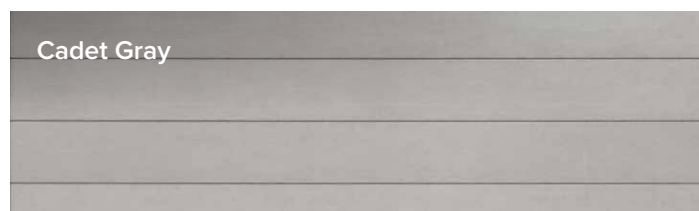
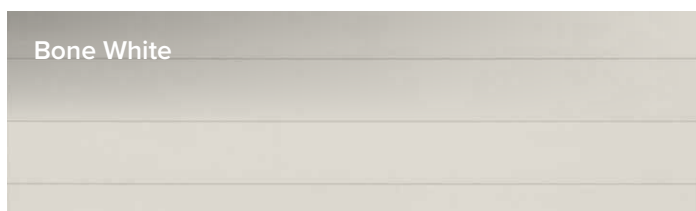
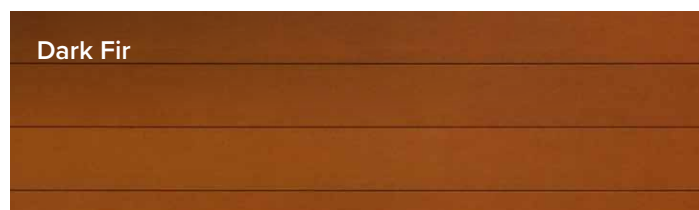
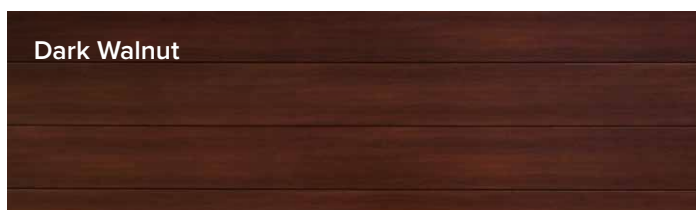
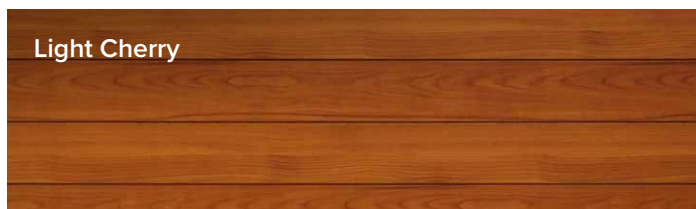
Dark Walnut on a Residential Home



Light Cherry Cladding and Soffit

A Complete 4" & 6" Woodgrain Aluminum Siding System

Choose from four woodgrains, our four standard colors or ask us to find out more about ColorMatch® options. All FastPlank® finishes are durable, maintenance-free, and come with a 20-year warranty.

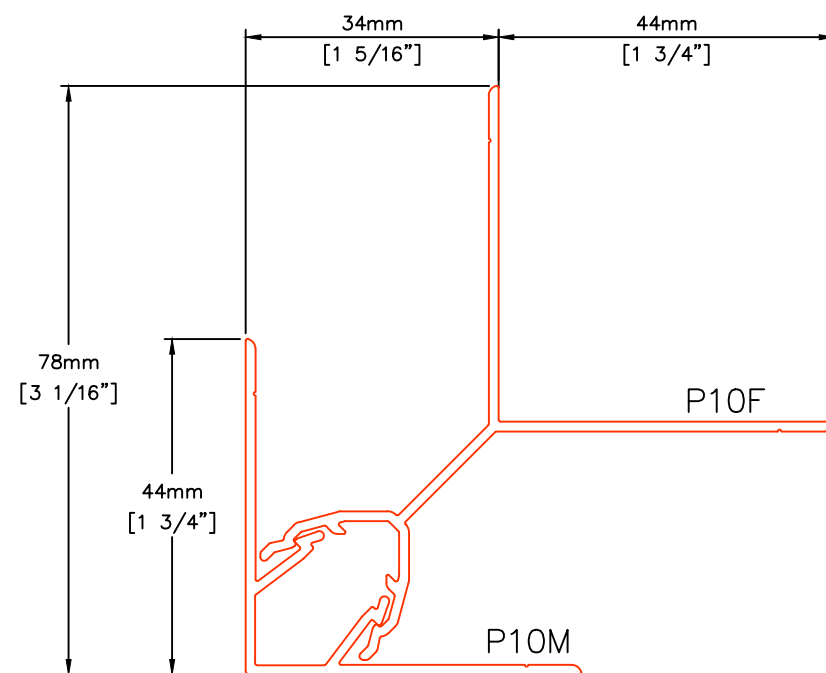


- Woodgrain sublimation by Sublitouch (by Sublitex) with Qualideco Class 2 rating
- High quality, high-definition "Touch" finish for impeccable realism
- Durable and maintenance-free
- Eco-friendly and sustainable production process
- Superior selection of woodgrain finishes & colors
- 20-year finish warranty

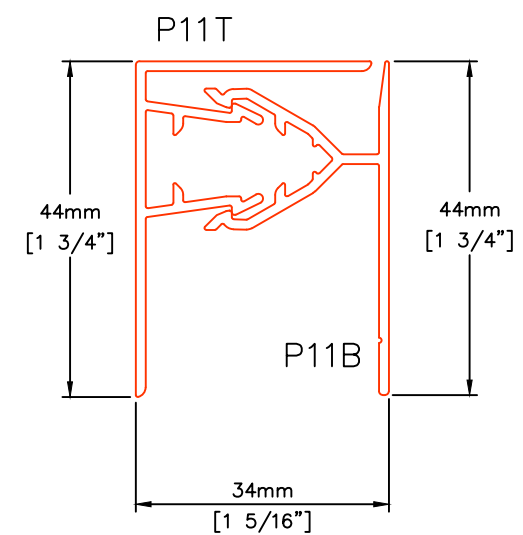
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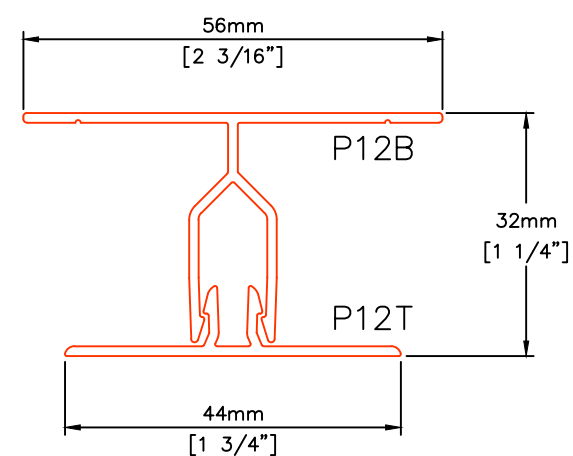
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P10
INSIDE/OUTSIDE
CORNER



P11
2-PIECE J

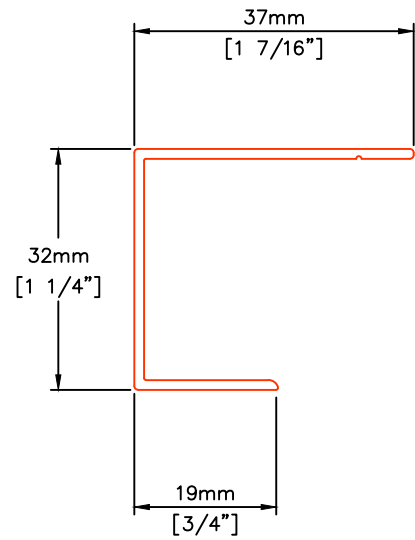


P12
2-PIECE VERTICAL

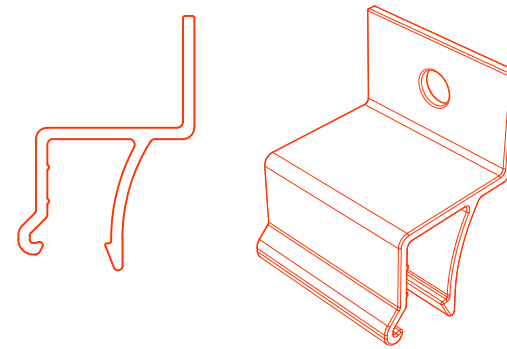
ALL TRIM APPROX. 1.30mm [.051\"] ~16 ga

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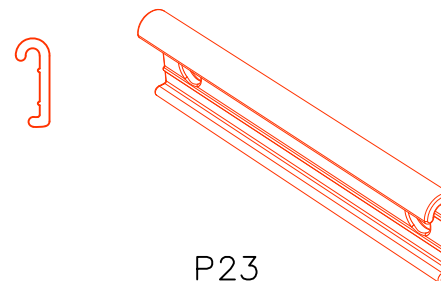
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PROFILE DETAILS 1of3			
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	DATE	MAR2023	FP0.1
	DRWN BY	HJ/DDG	



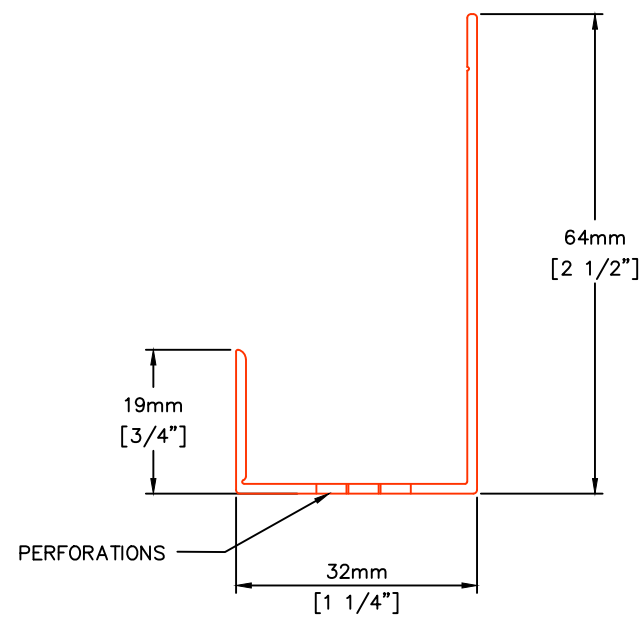
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GENERAL J



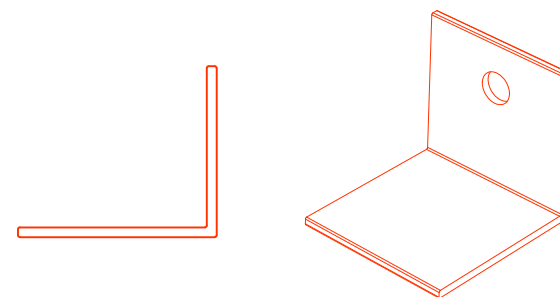
P22
PLANK CLIP



P23
PLANK CONNECTOR



P41
PERFORATED STARTER J

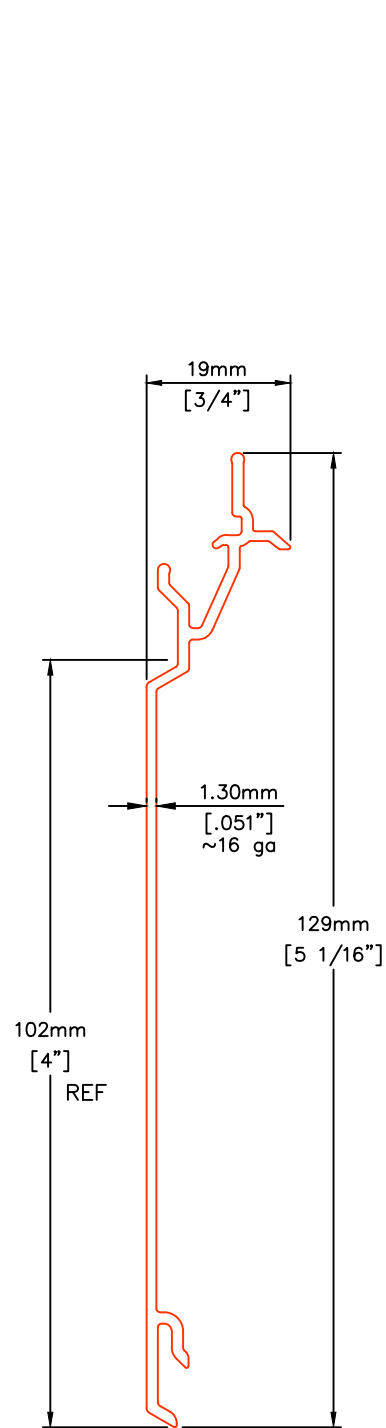


P30
PLANK BACKER

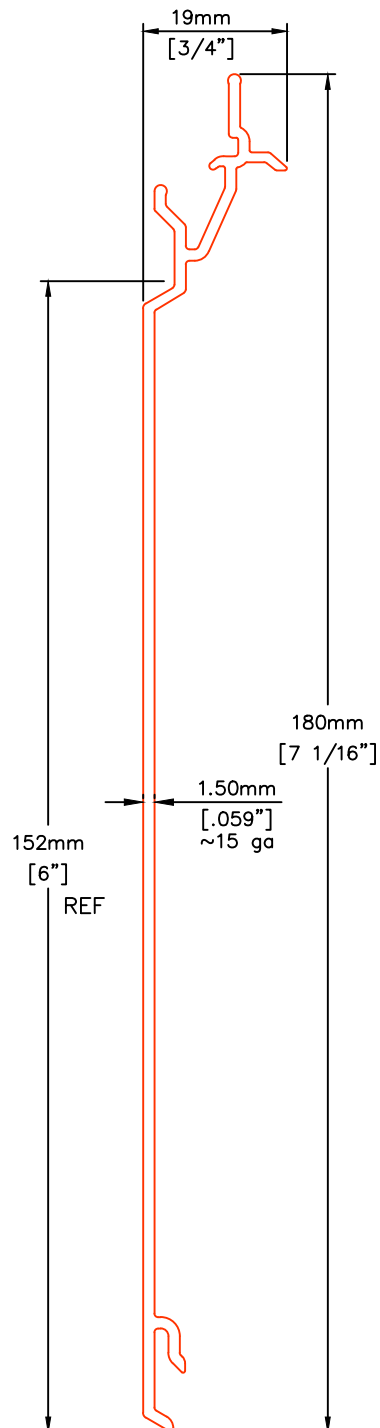
ALL TRIM APPROX. 1.30mm [.051"] ~16 ga

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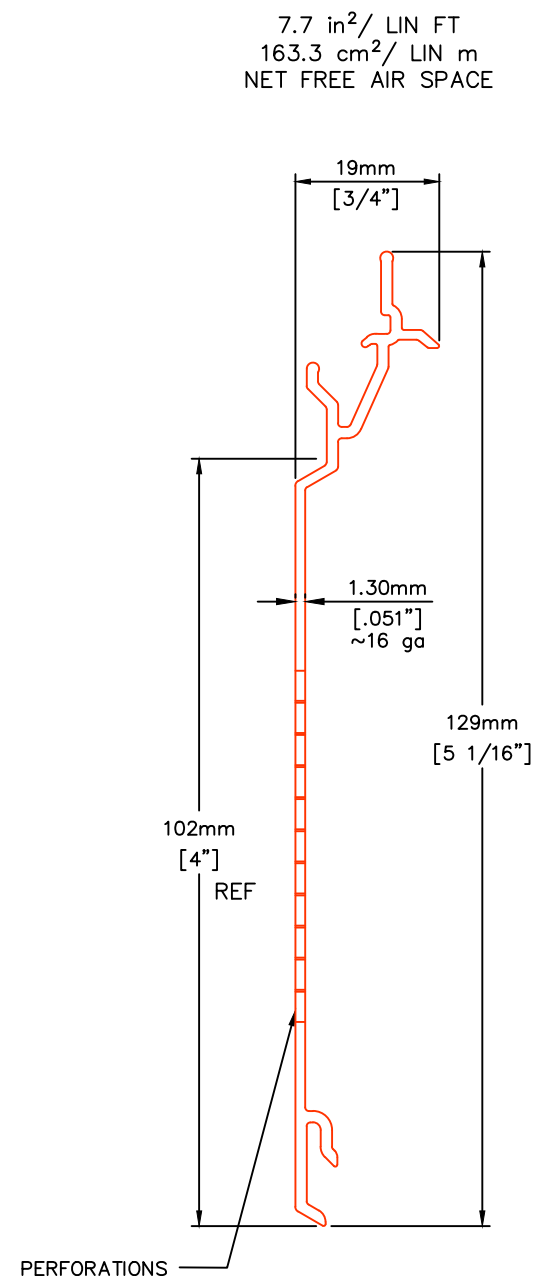
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PROFILE DETAILS 2of3			
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	DRWN BY	HJ/DDG	



P44V
V-NOTCH 4"
PLANK

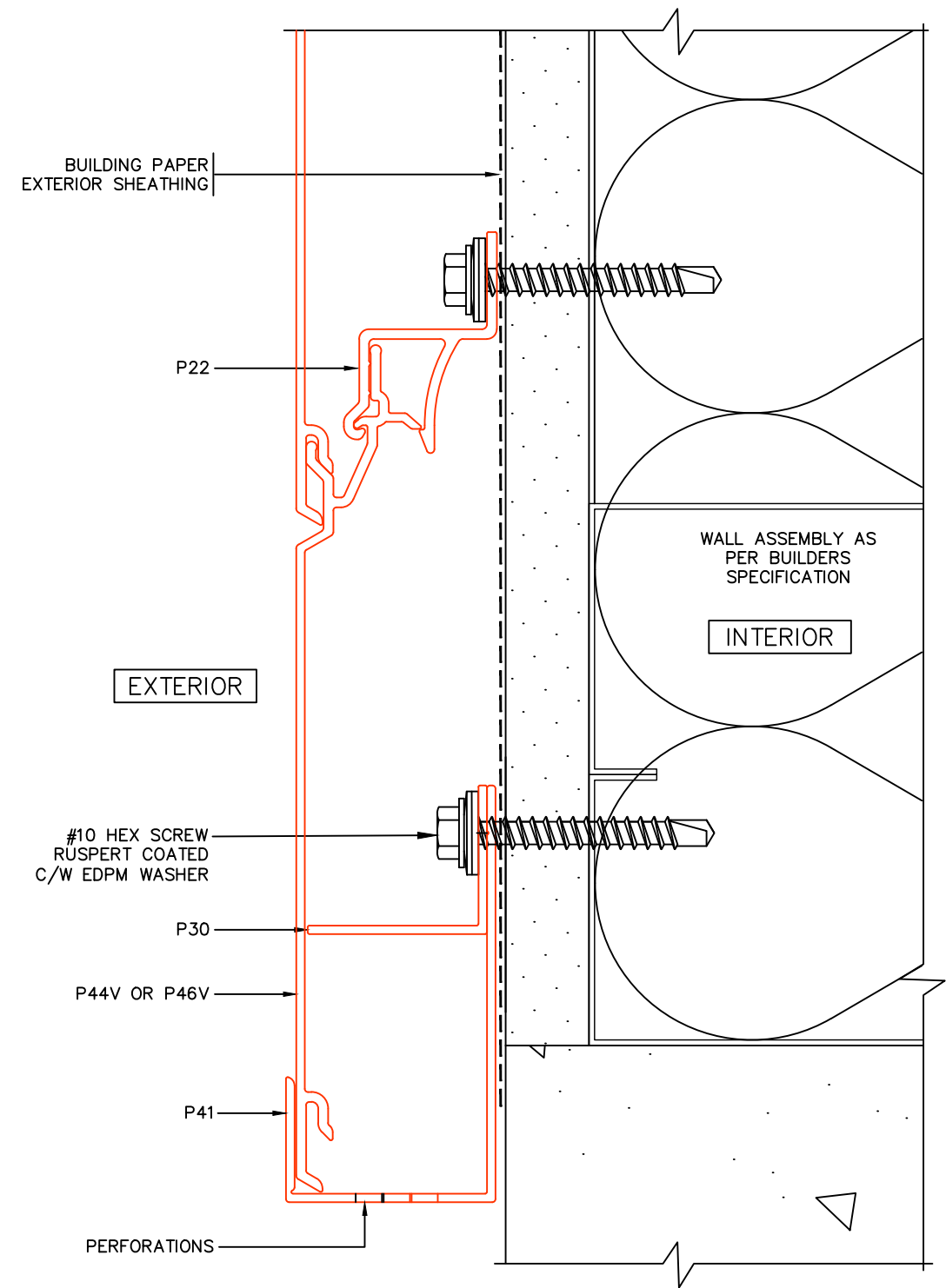


P46V
V-NOTCH 6"
PLANK

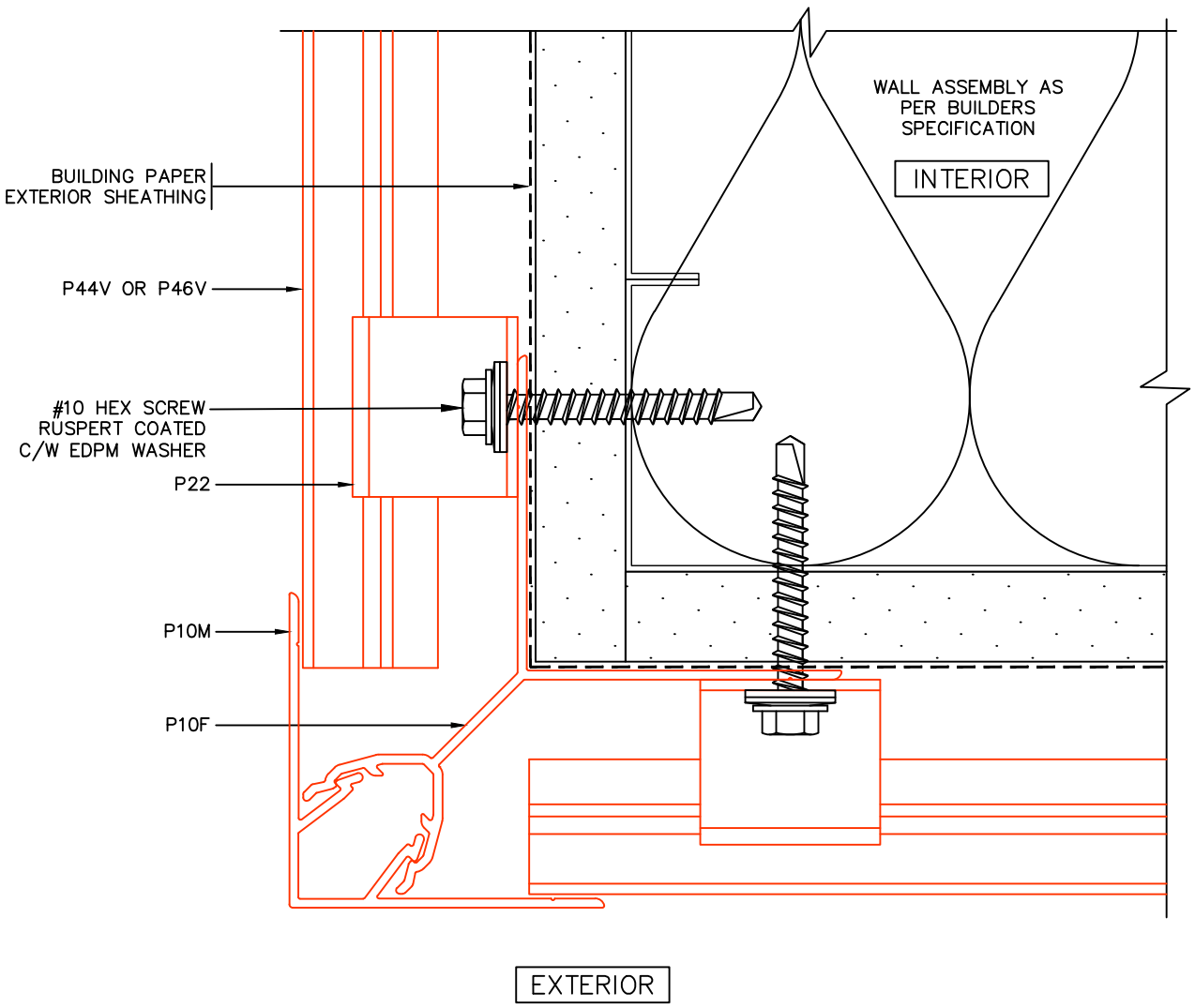
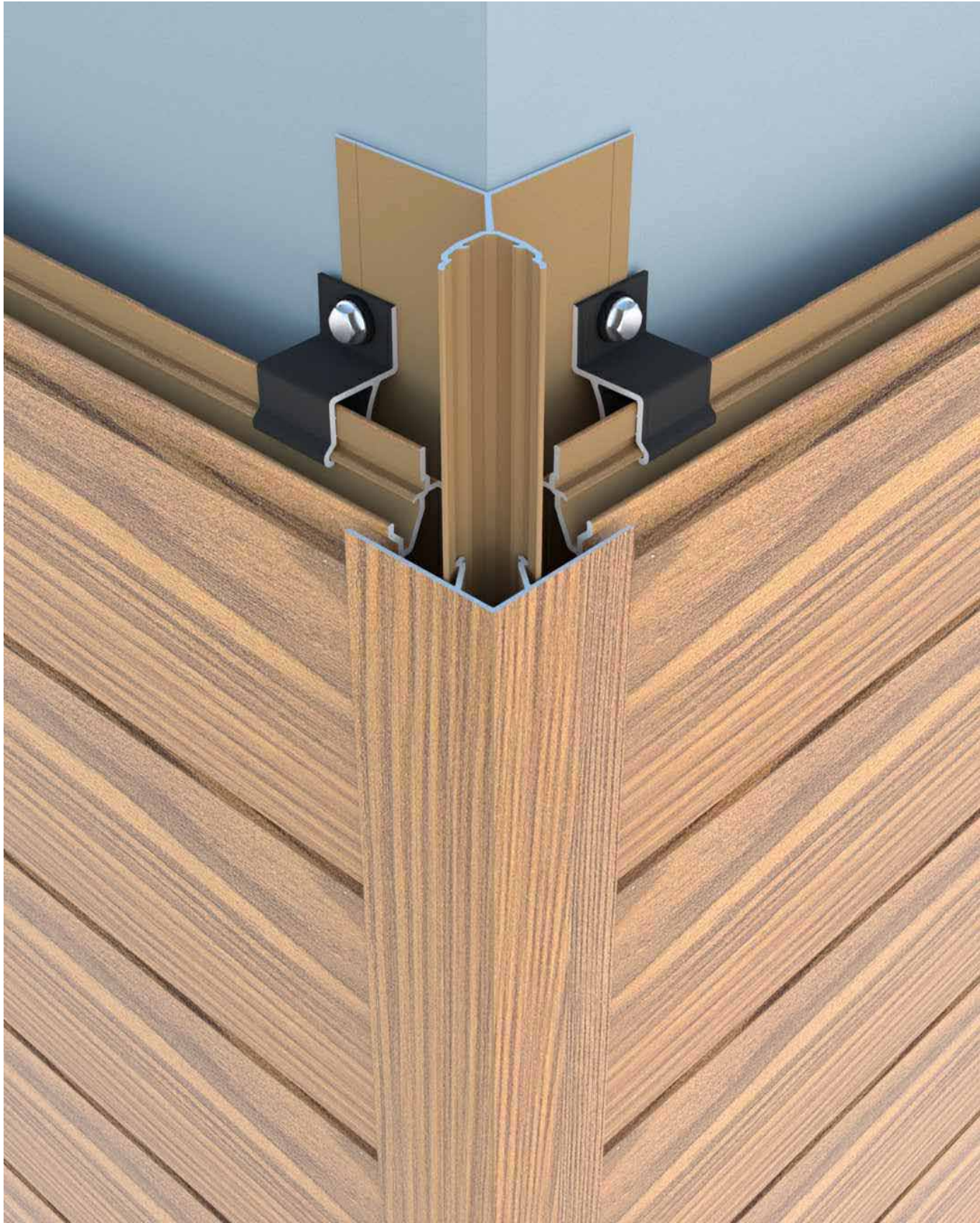


P47V
V-NOTCH SOFFIT
PLANK

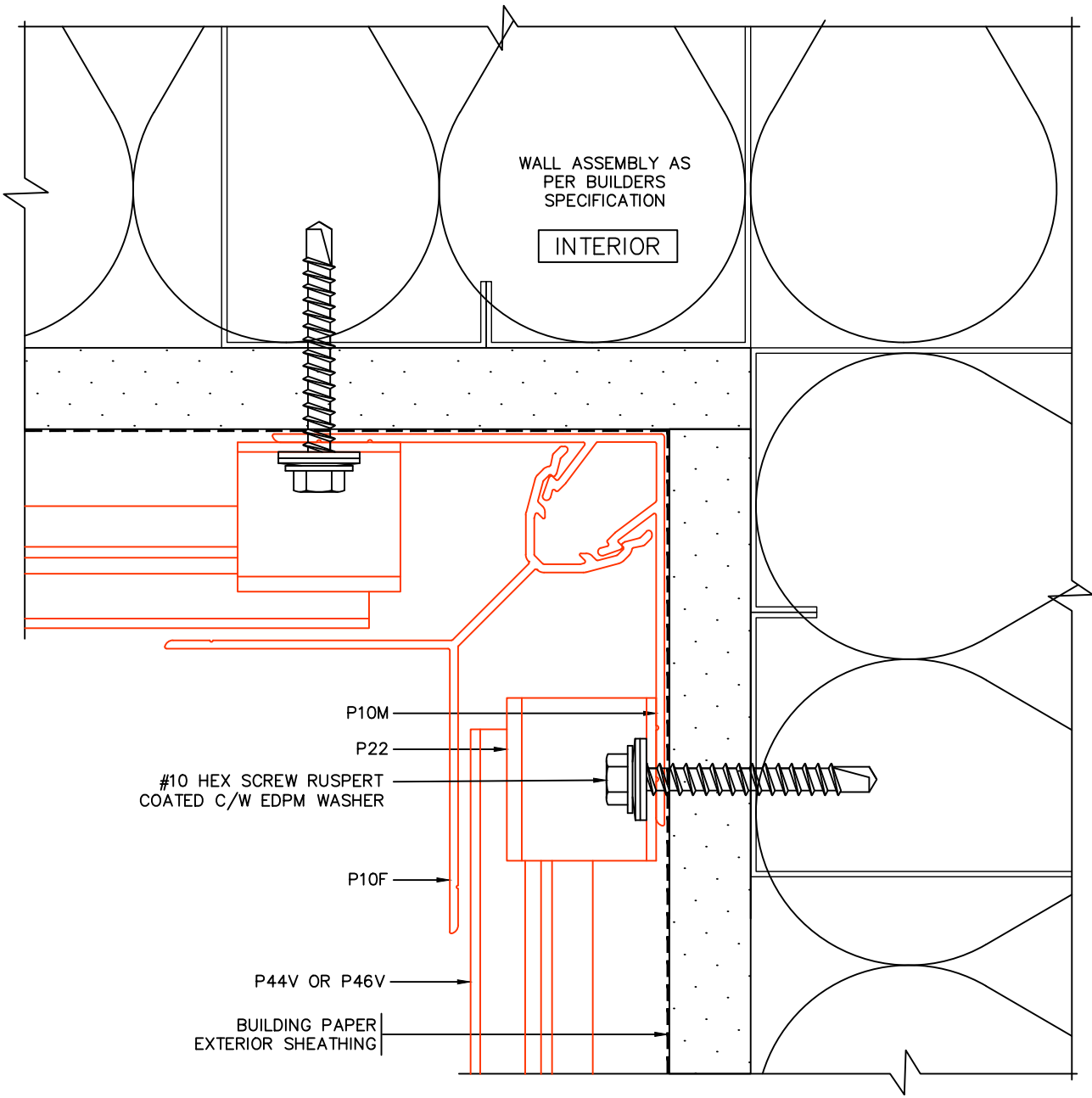
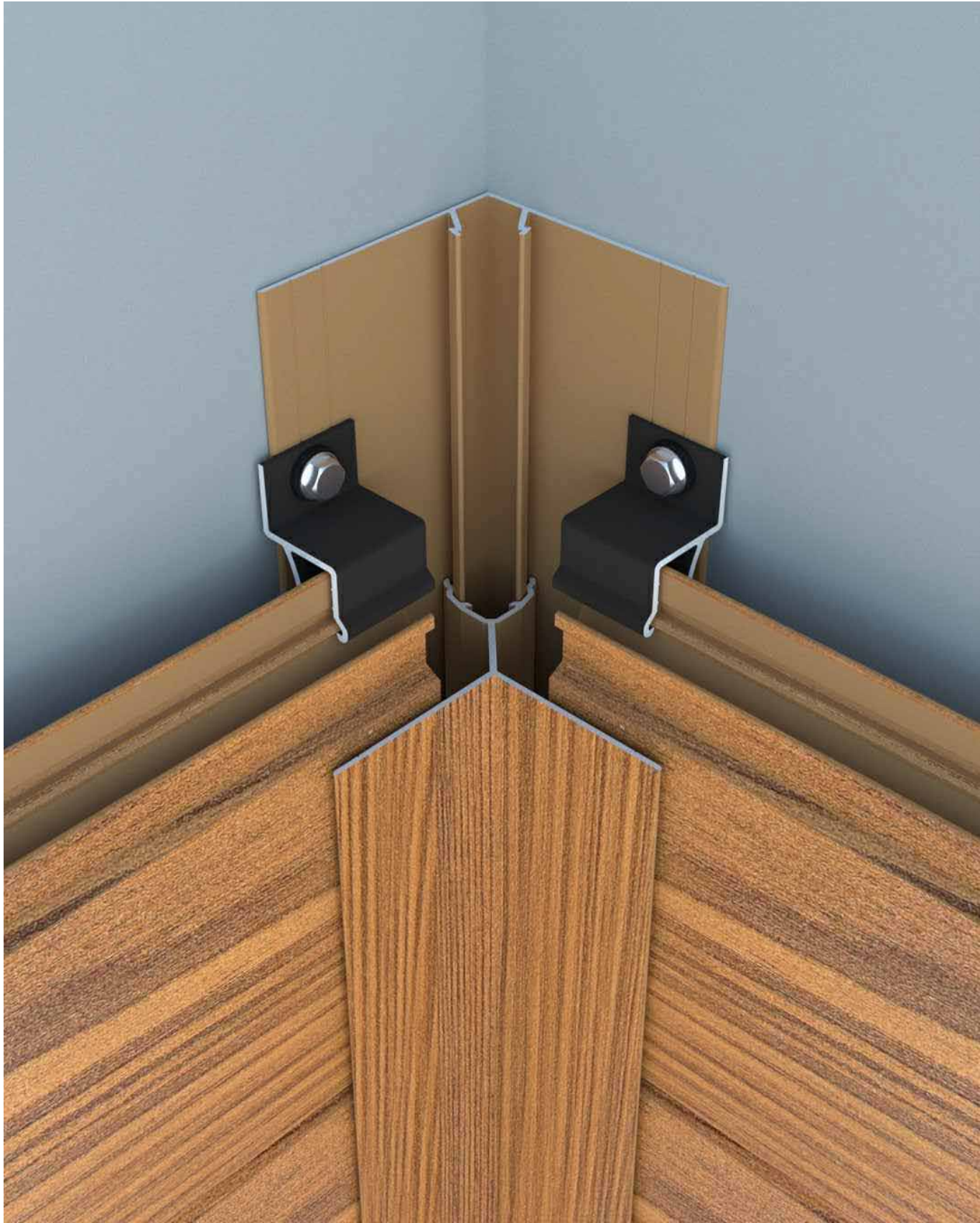
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	DRWN BY	HJ/DDG	



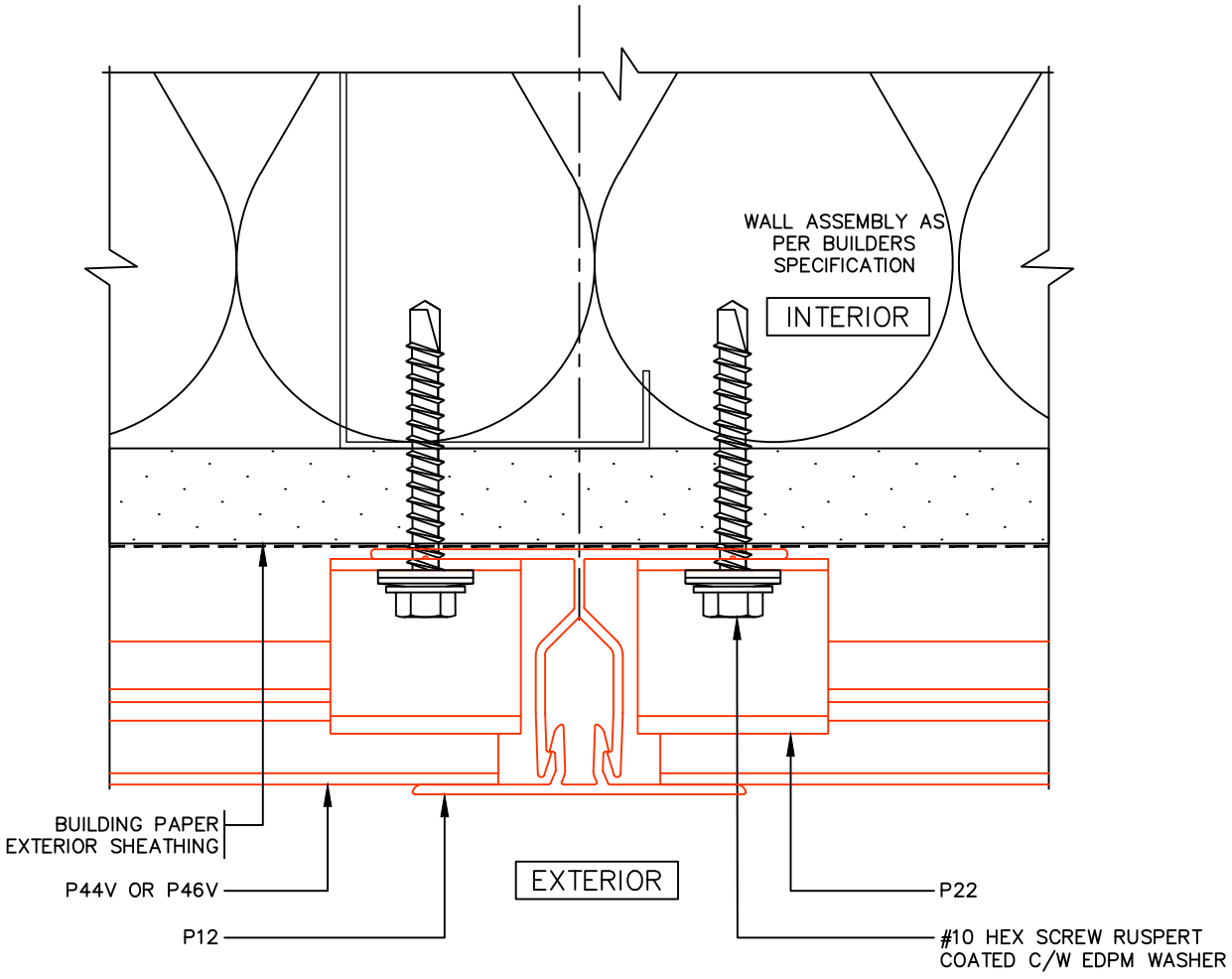
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	DRWN BY	HJ/DDG	



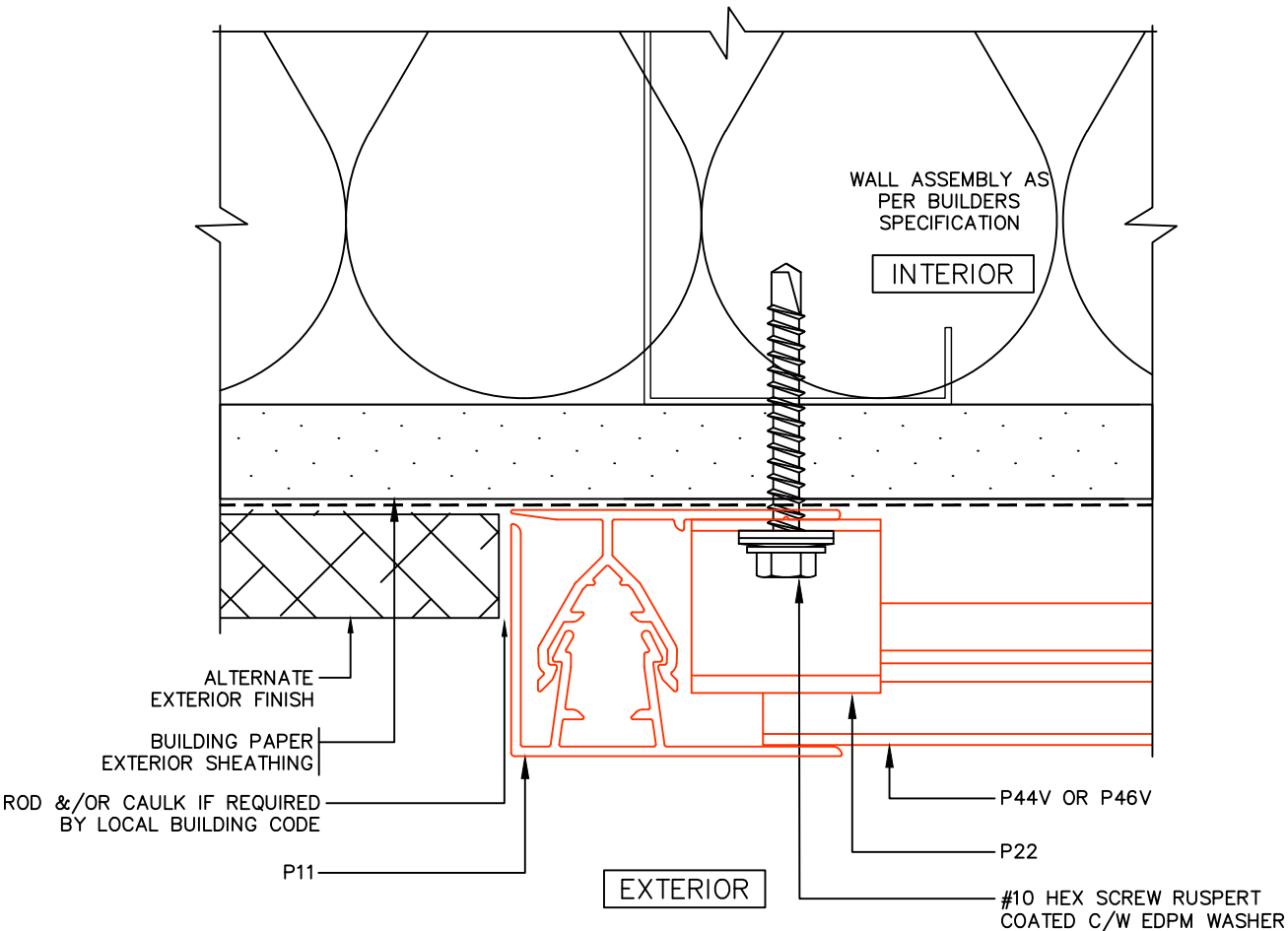
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	DRWN BY	HJ/DDG	



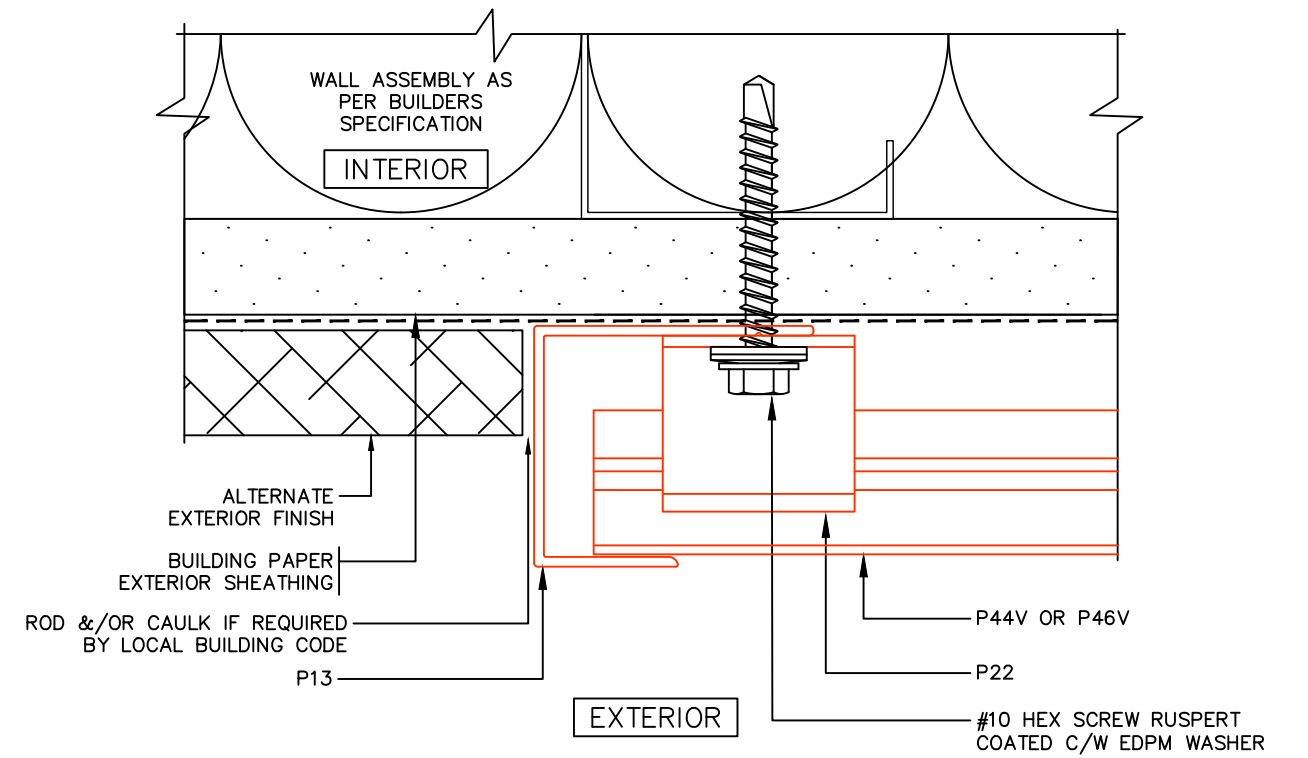
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INSIDE CORNER TRIM			
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	DATE	MAR2023	FP1.3
	DRWN BY	HJ/DDG	



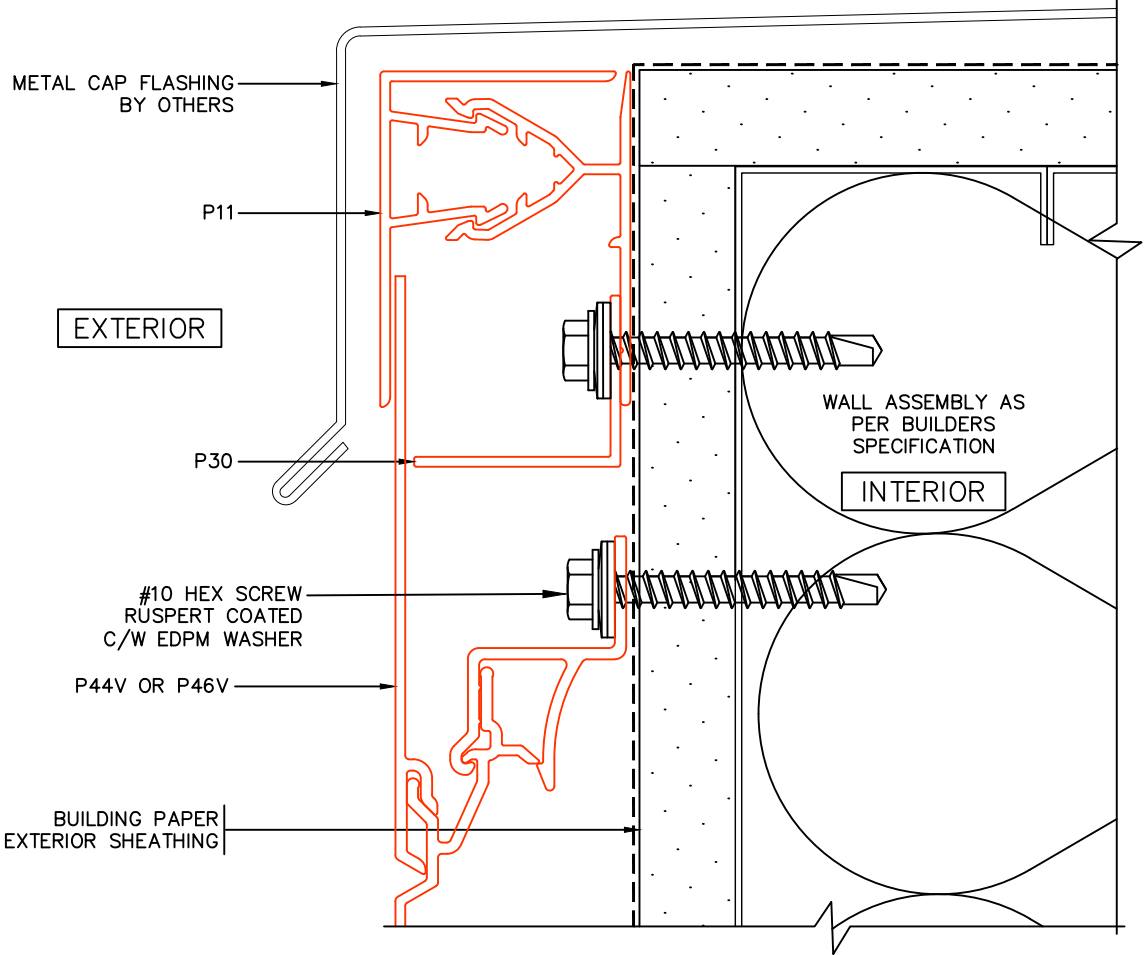
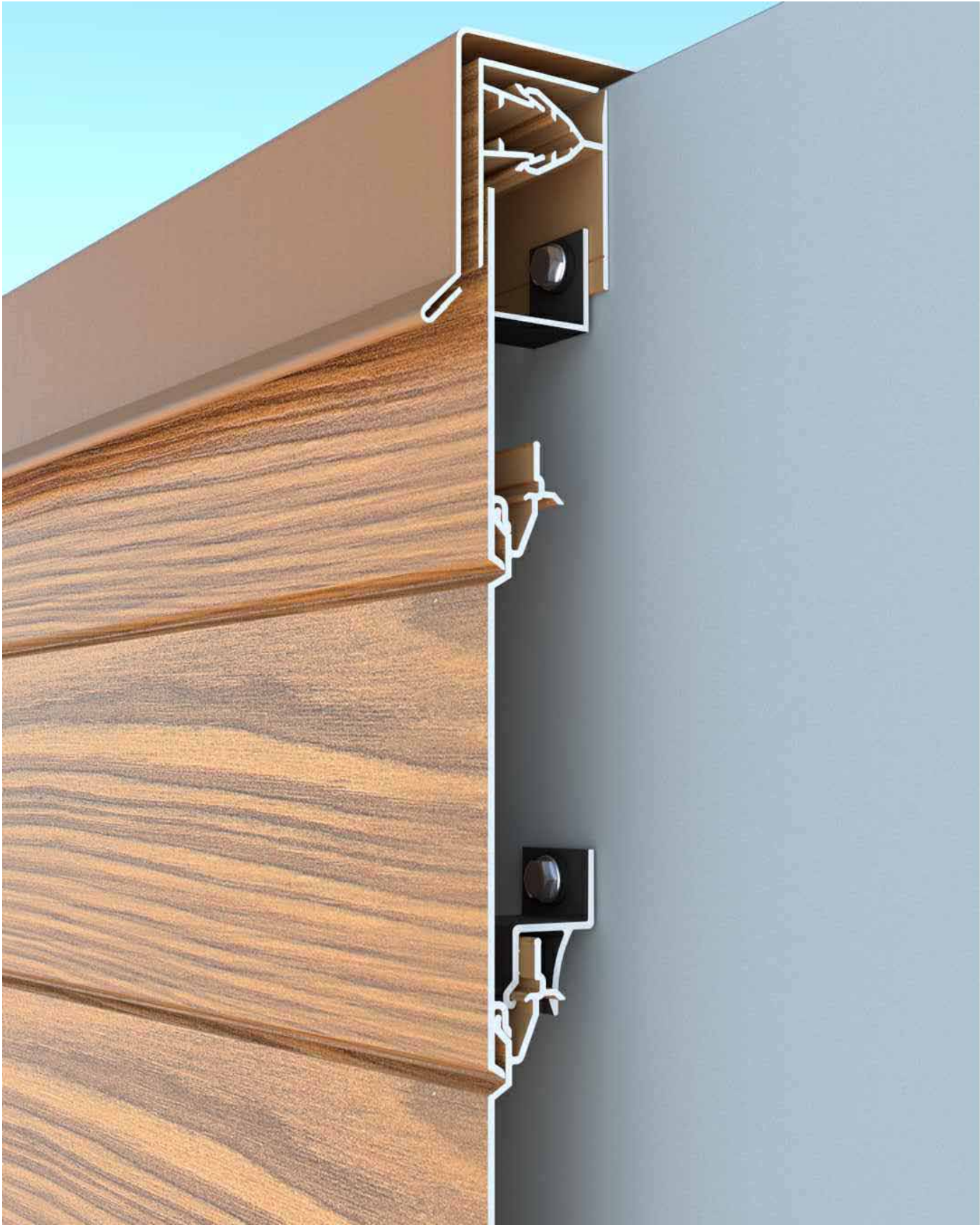
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	DATE	MAR2023	FP1.4
	DRWN BY	HJ/DDG	



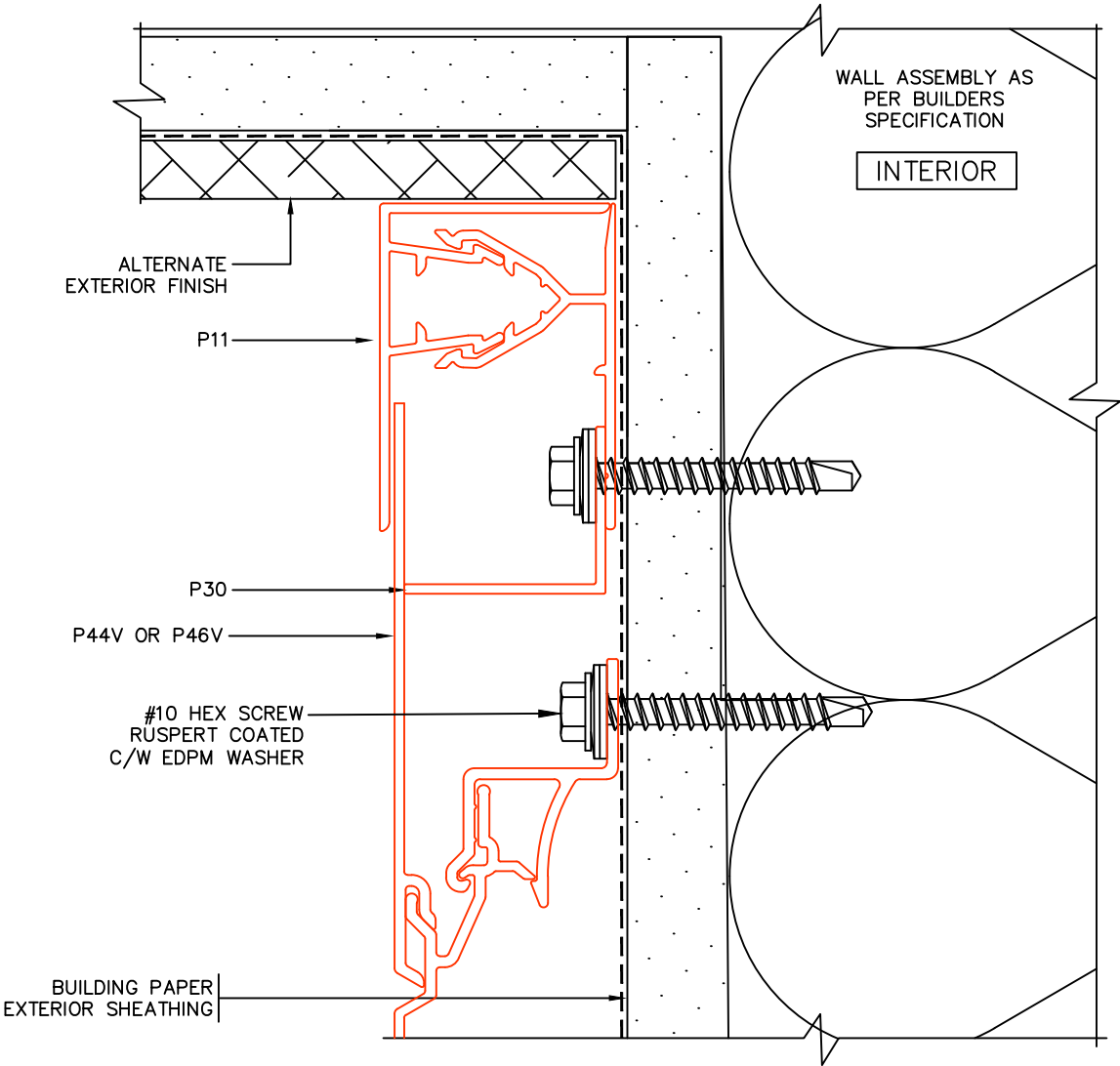
DESCRIPTION			
2-PIECE J VERTICAL TERMINATION			
	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP1.5a
	DRWN BY	HJ/DDG	



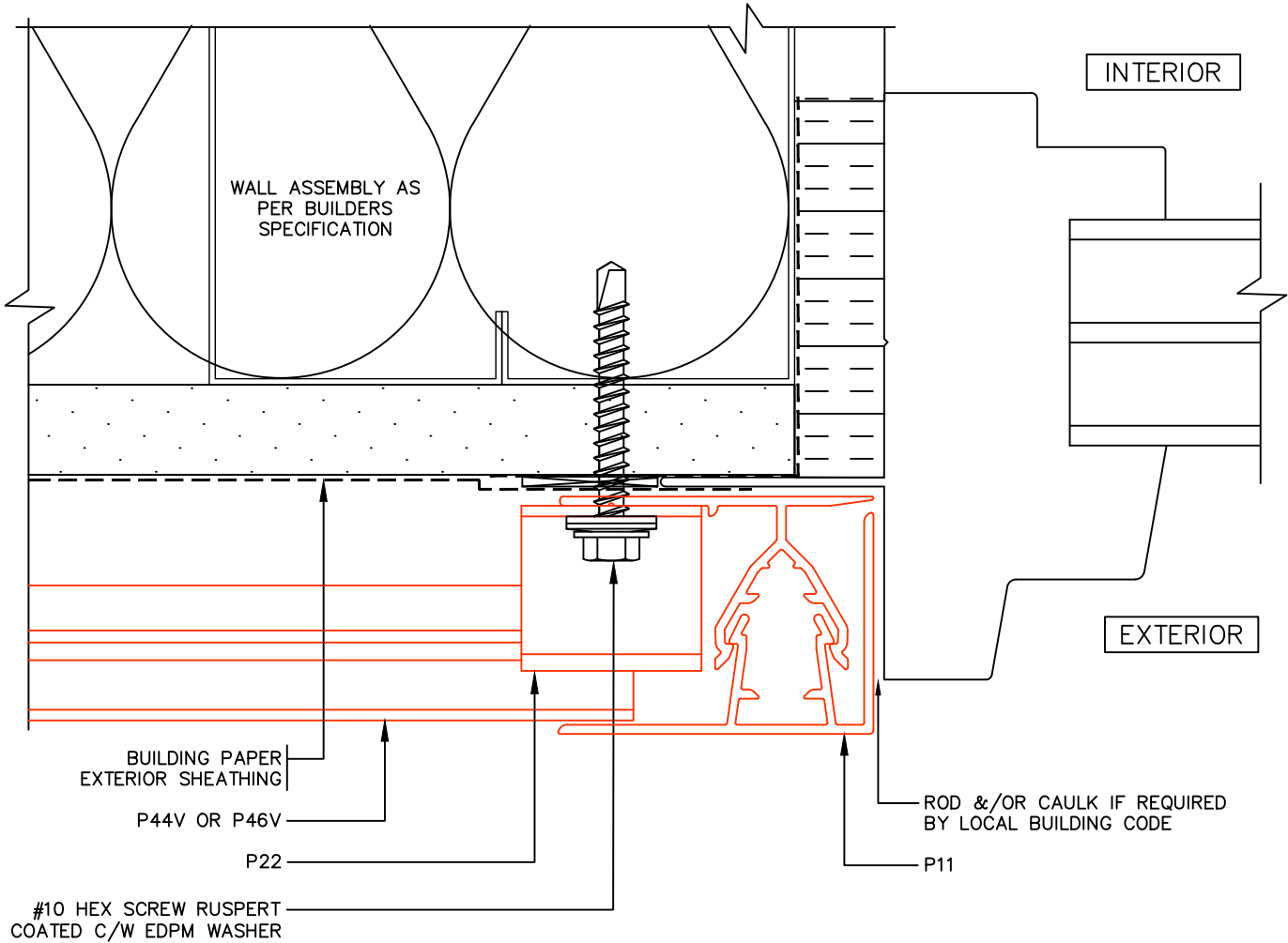
DESCRIPTION			
GENERAL J VERTICAL TERMINATION			
	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP1.5b
	DRWN BY	HJ/DDG	



DESCRIPTION			
2-PIECE J PARAPET			
	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP1.6a
	DRWN BY	HJ/DDG	

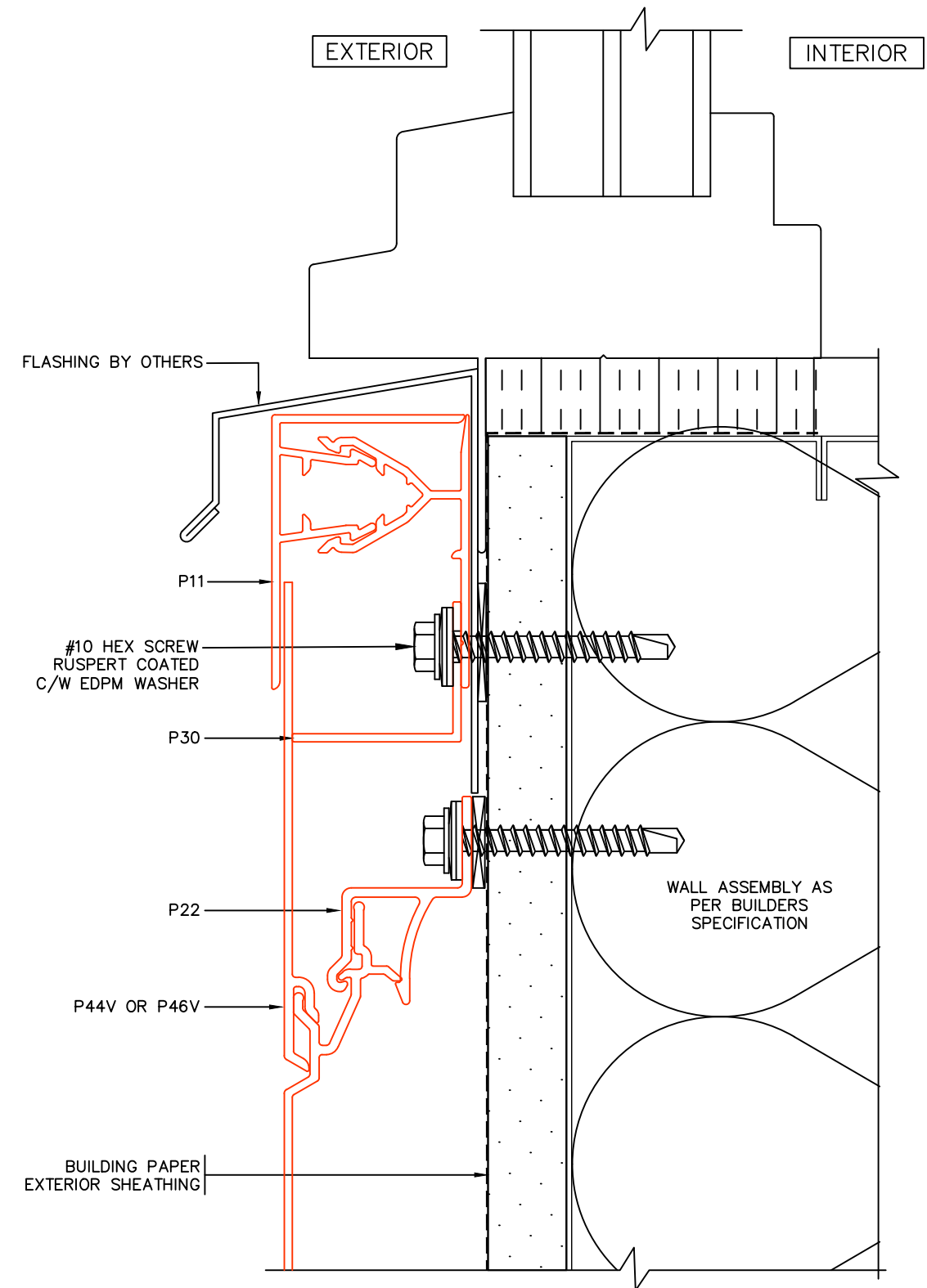
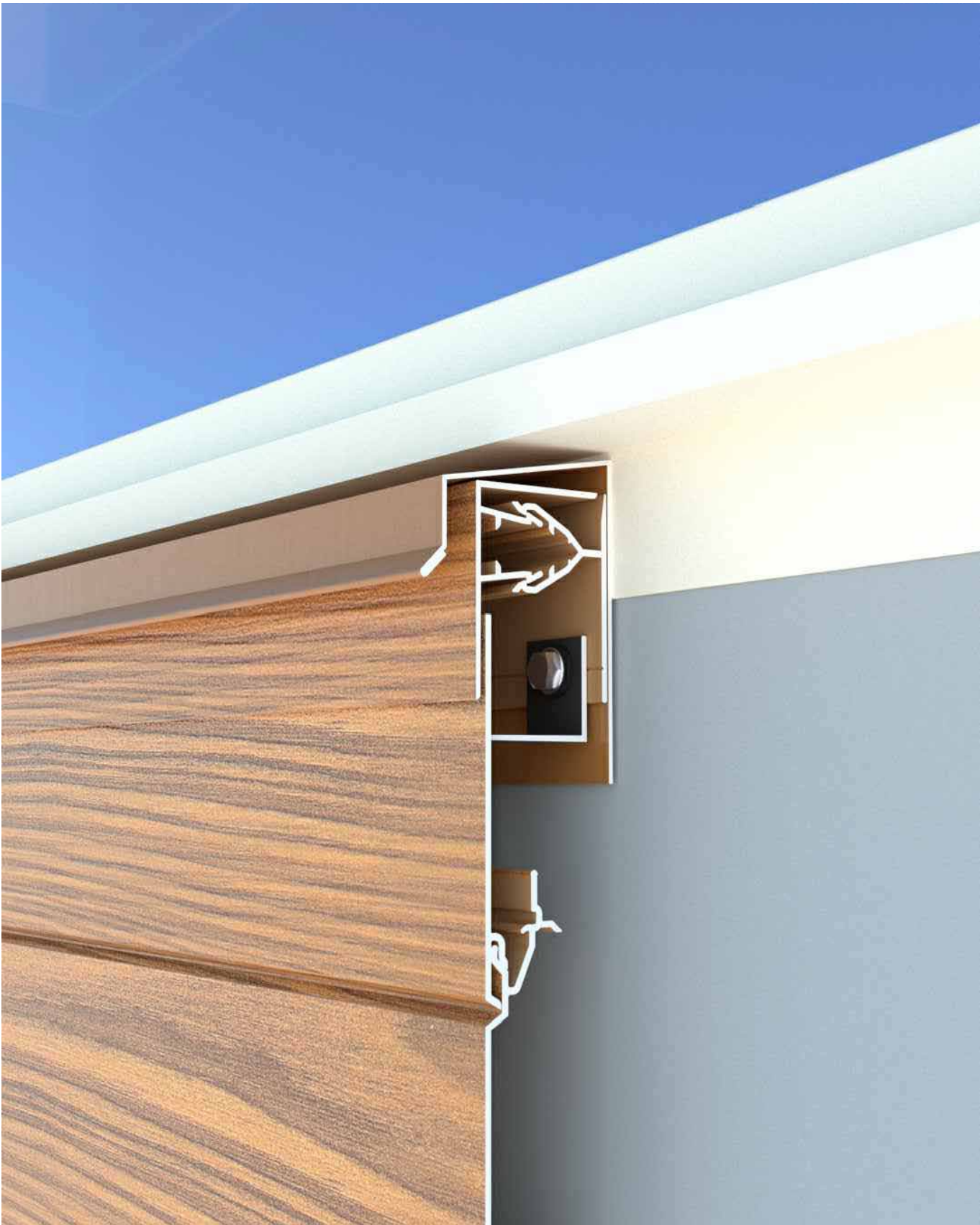


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	DRWN BY	HJ/DDG	

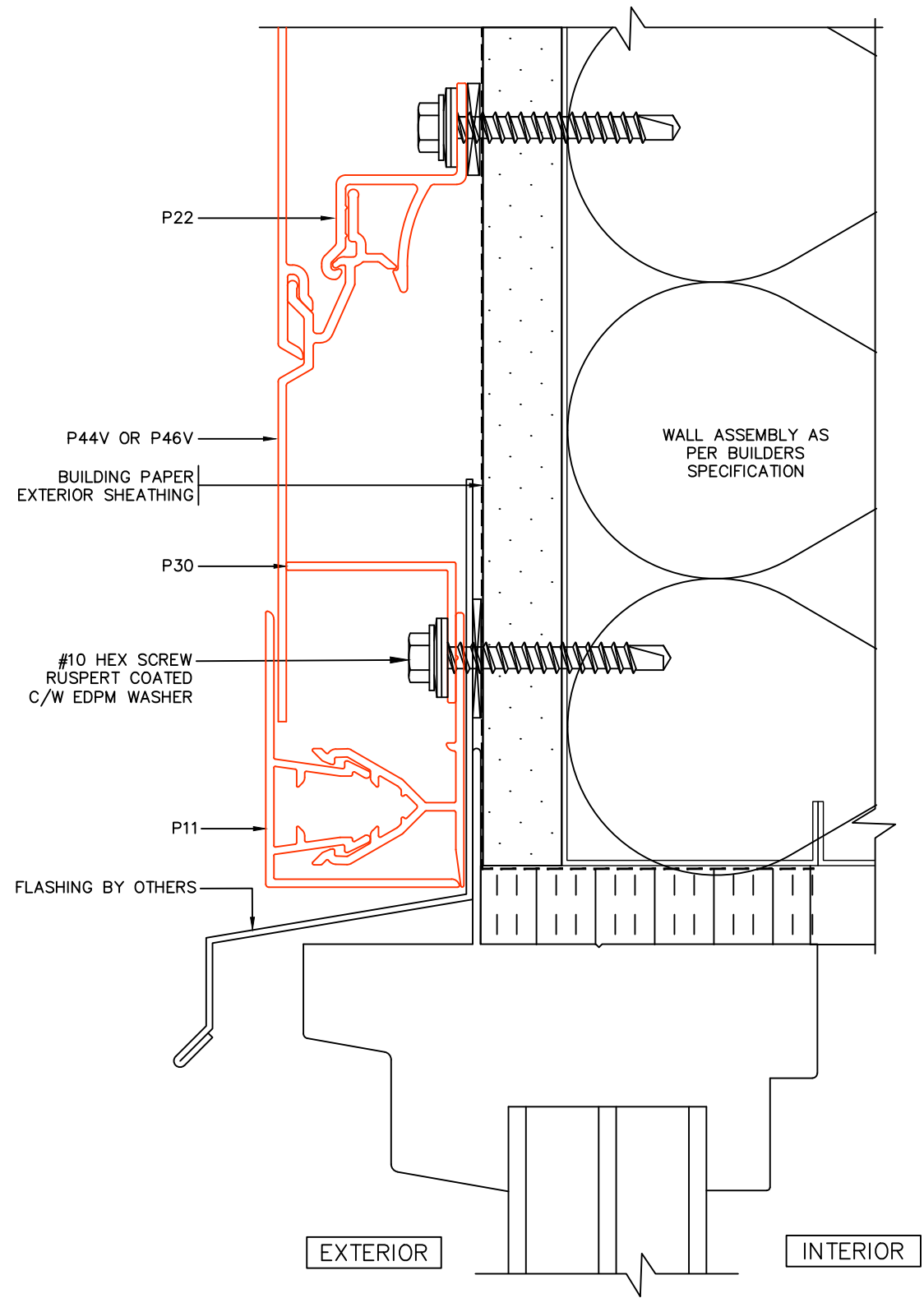


DESCRIPTION	WINDOW JAMB w/ 2-PIECE J TRIM		
	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP2.1
	DRWN BY	HJ/DDG	

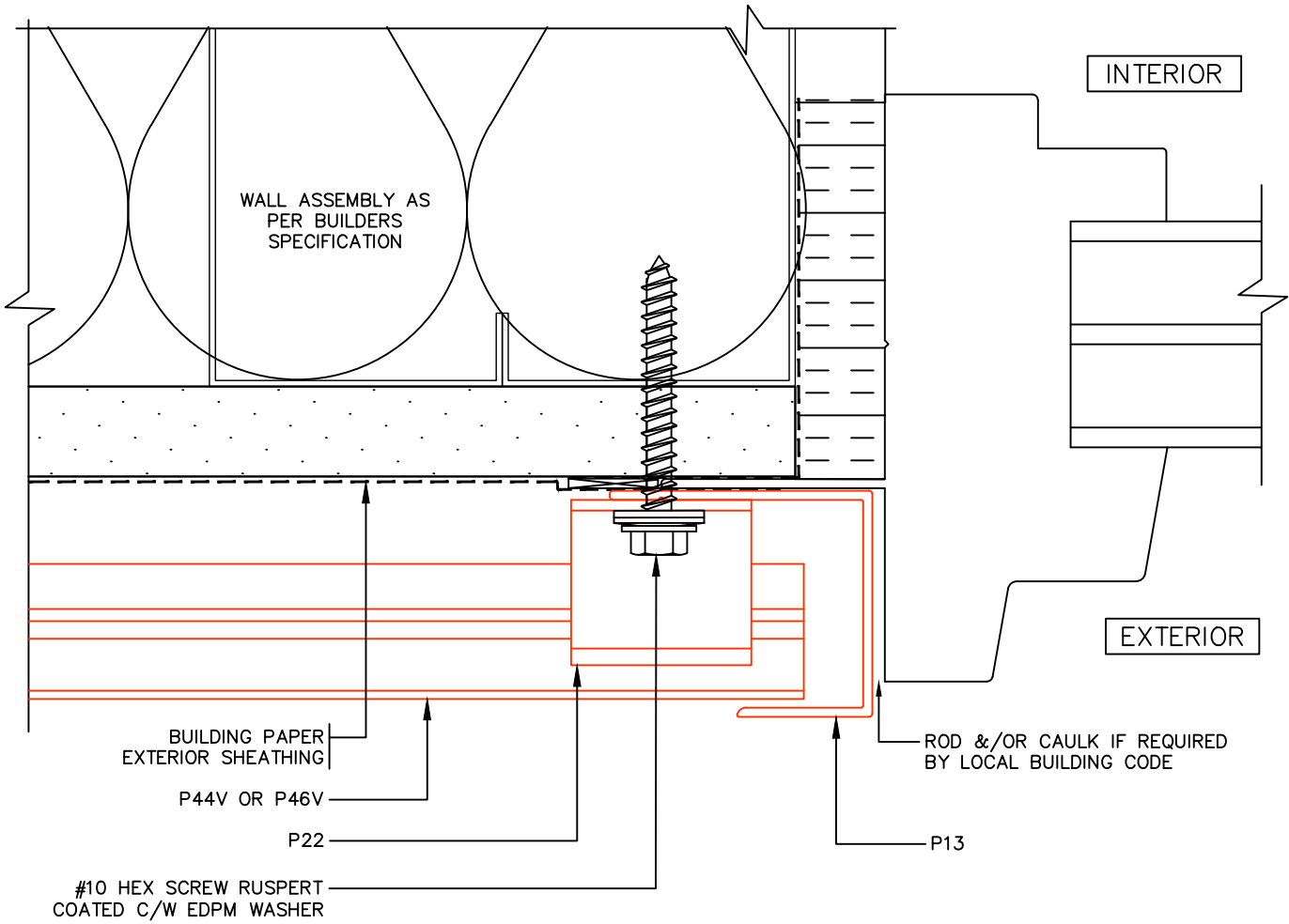




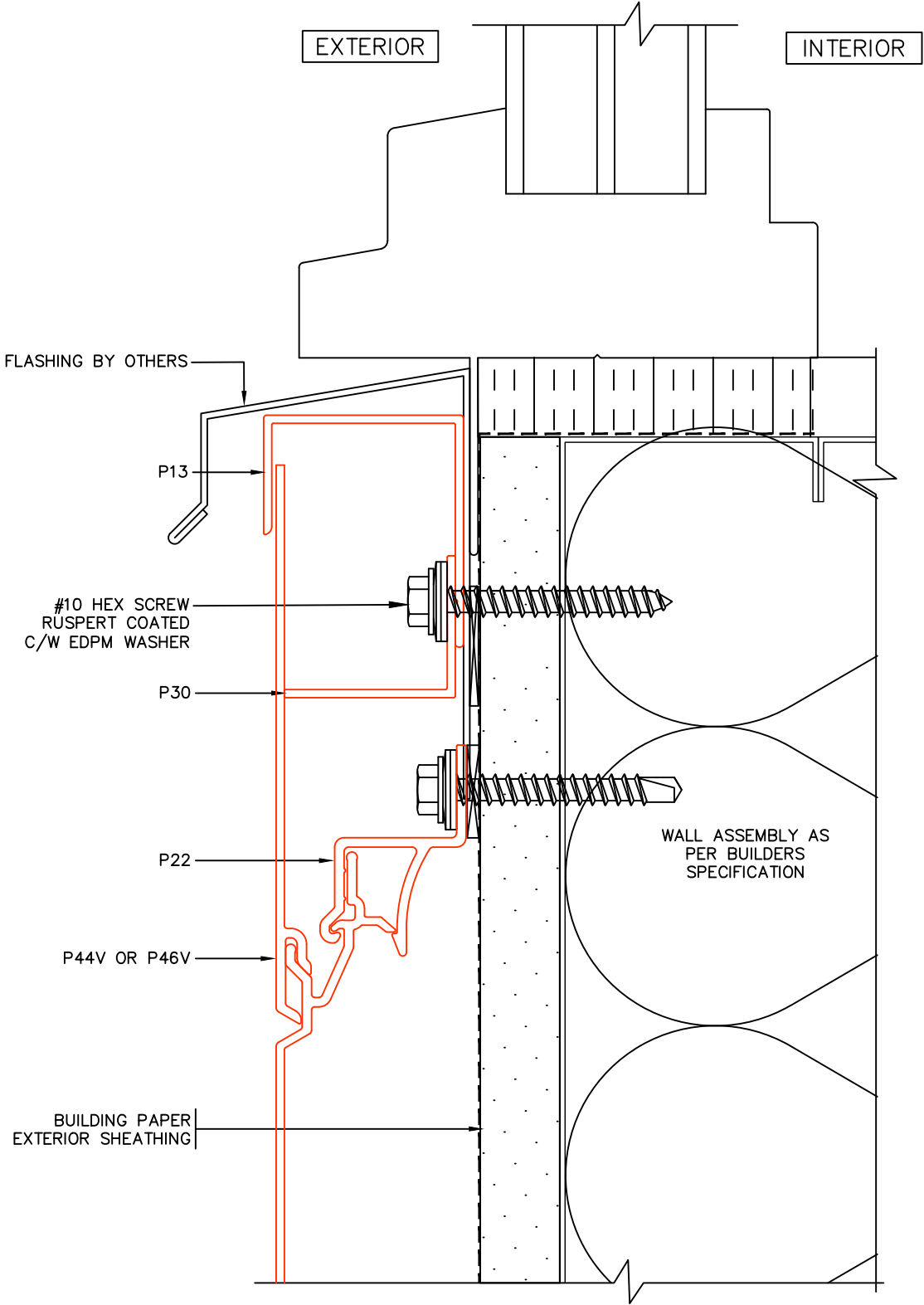
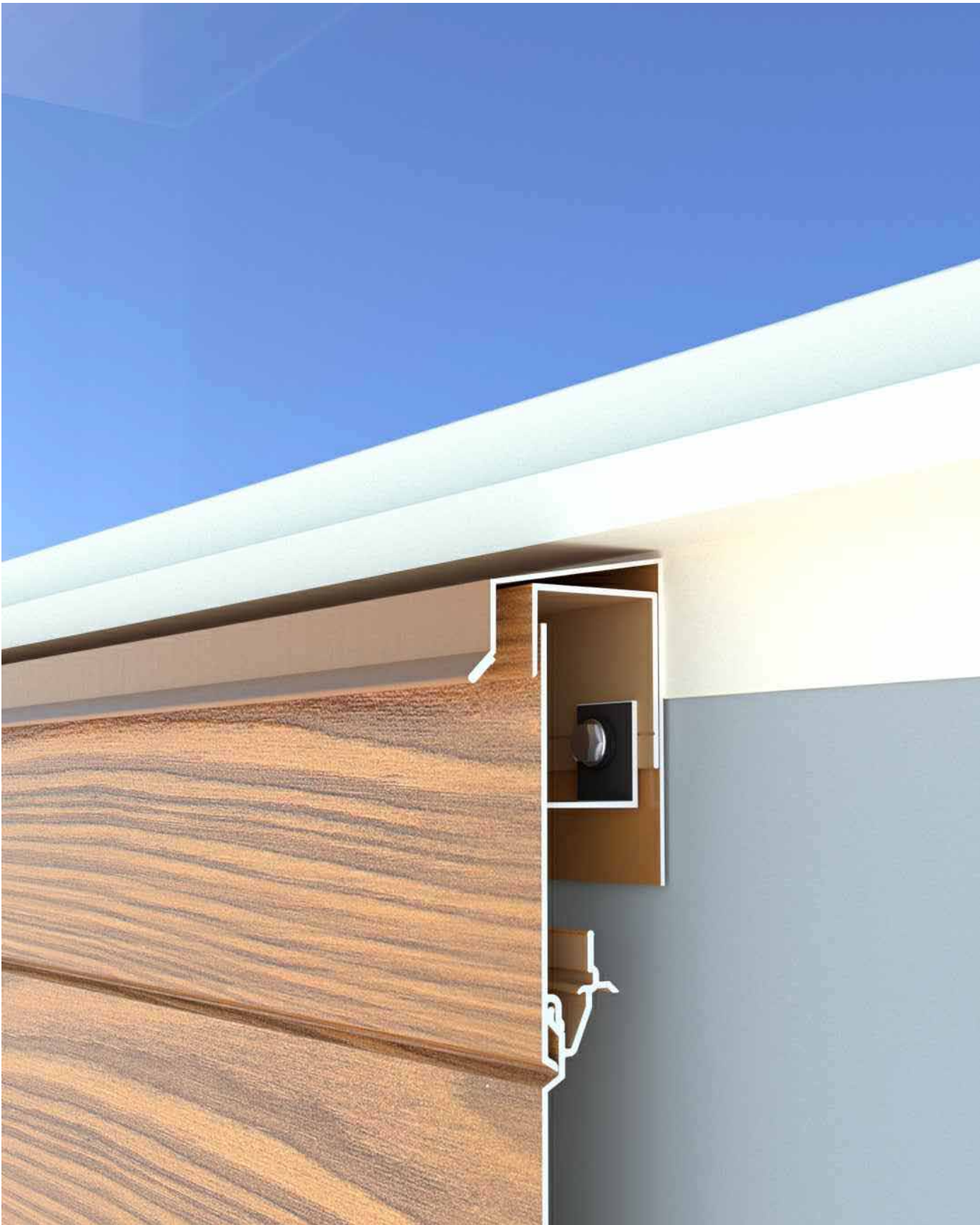
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	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP2.2
	DRWN BY	HJ/DDG	



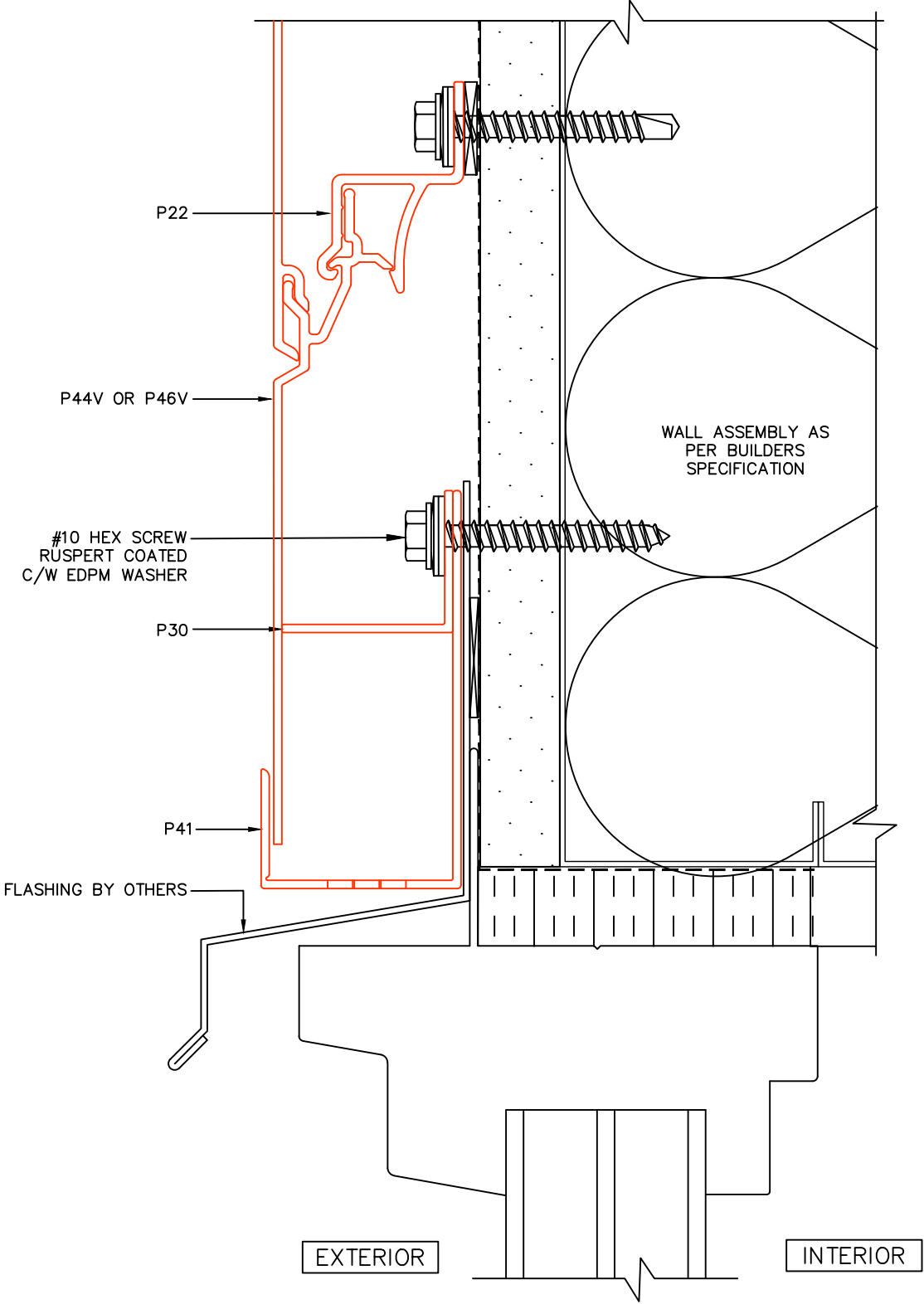
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	DATE	MAR2023	FP2.3
	DRWN BY	HJ/DDG	



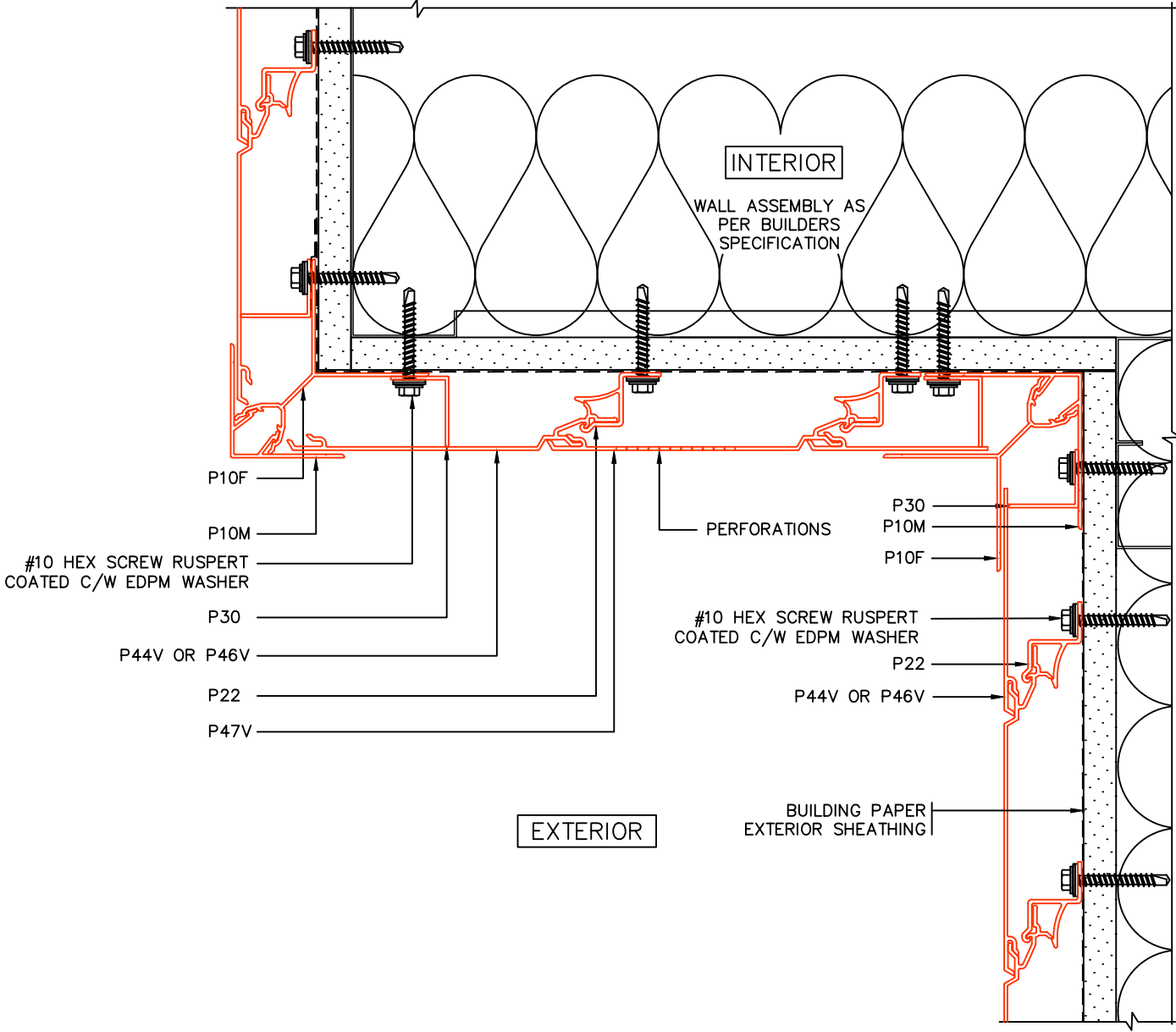
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	DATE	MAR2023	FP2.4
	DRWN BY	HJ/DDG	



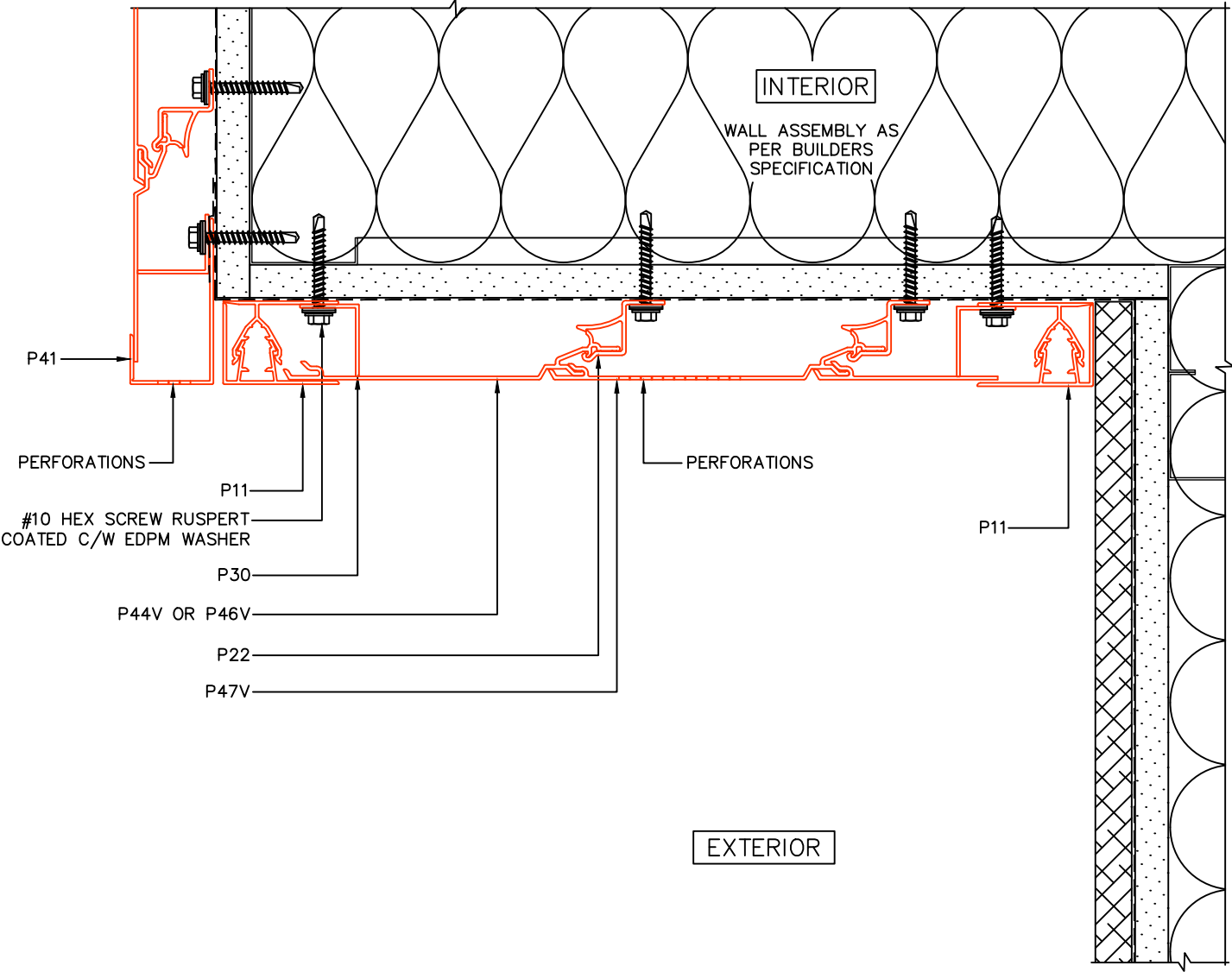
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	DATE	MAR2023	FP2.5
	DRWN BY	HJ/DDG	



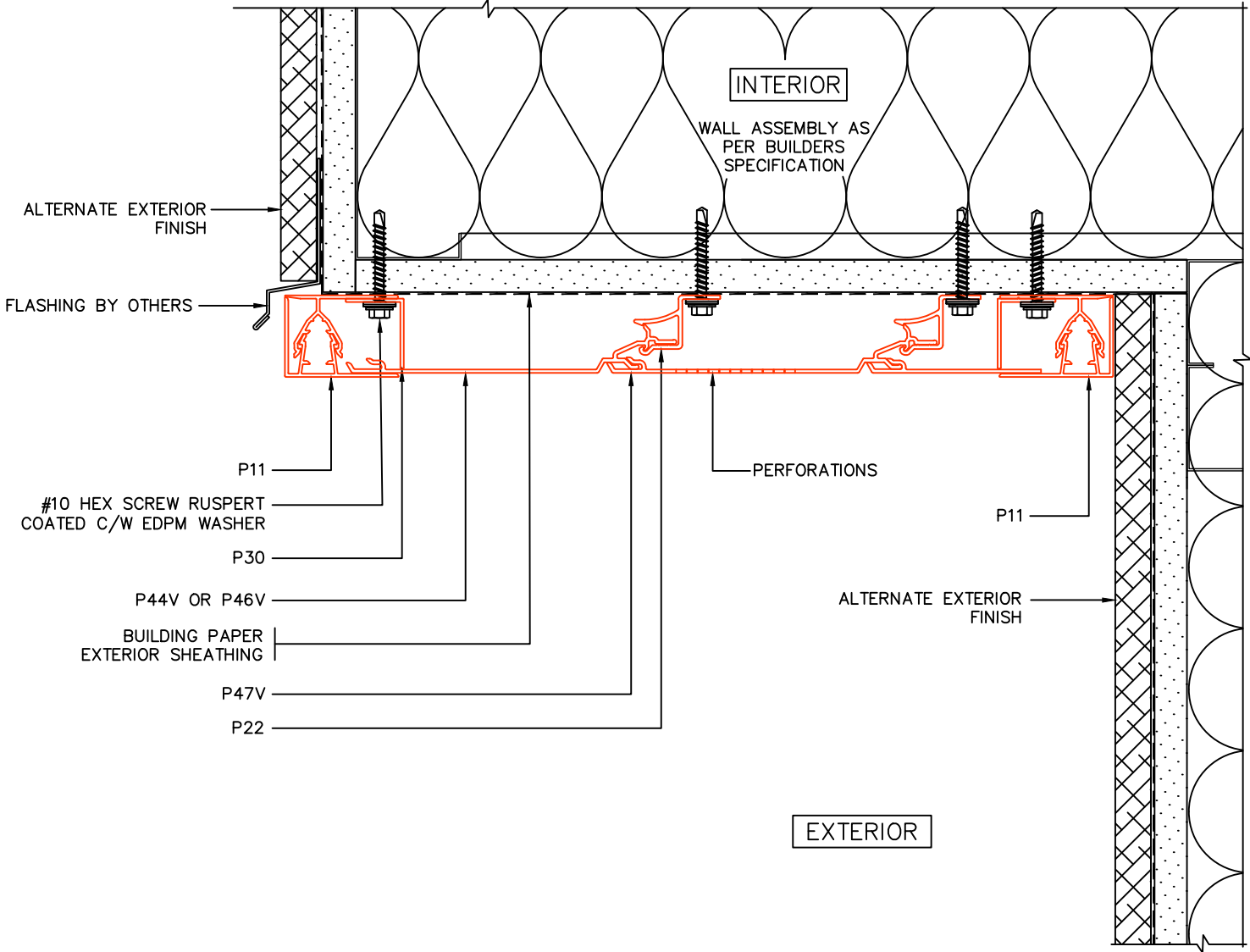
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	DRWN BY	HJ/DDG	



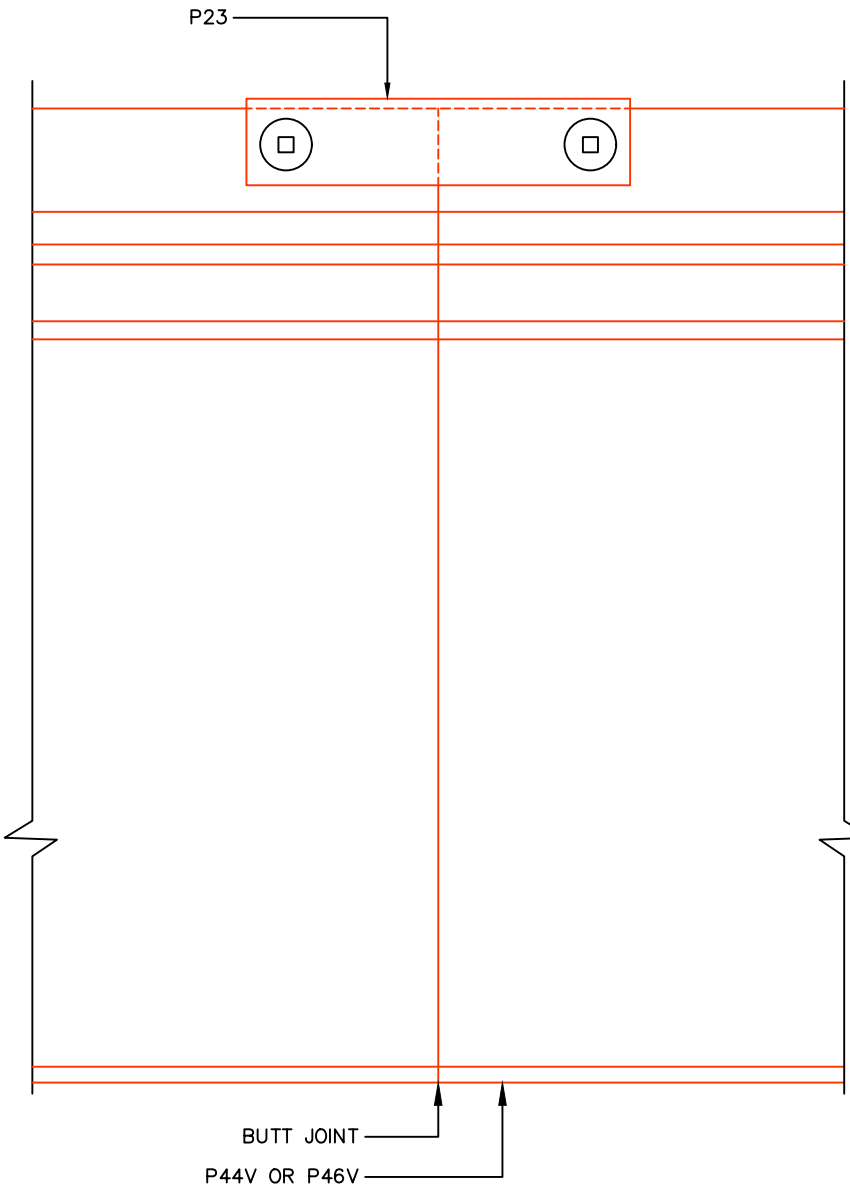
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	DRWN BY	HJ/DDG	



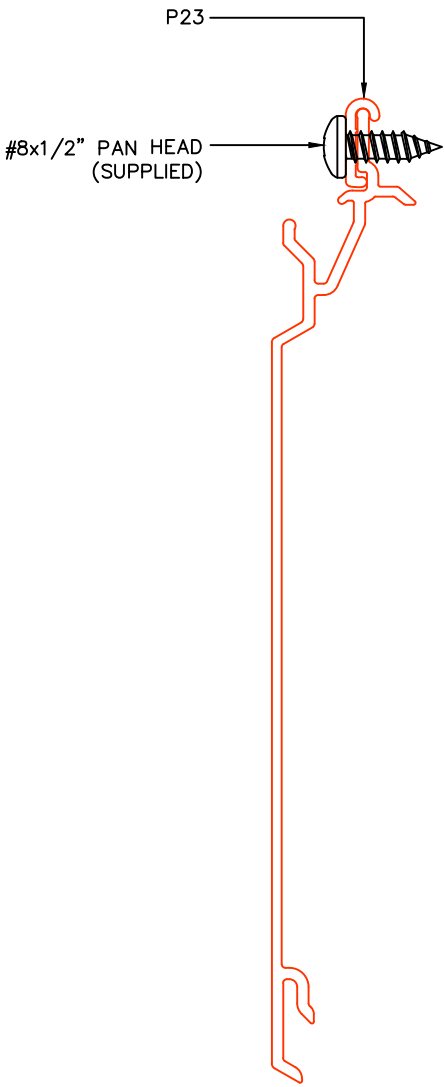
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	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP3.2
	DRWN BY	HJ/DDG	



DESCRIPTION			
SOFFIT ONLY w/ 2-PIECE J TRIM			
	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP3.3
	DRWN BY	HJ/DDG	



ELEVATION



SECTION

DESCRIPTION			
PLANK CONNECTOR @ BUTT JOINT			
	SCALE	NTS	DRAWING NUMBER
	DATE	MAR2023	FP4.1
	DRWN BY	HJ/DDG	

V SPECS VERIFIED SPEC NOTE: The affixed digital V SPECS VERIFIED Seal indicates this Product Master Specification has been 3rd-Party Verified to meet guidelines published by North American Specification Associations, and signifies contents within the Section appear complete, and ready for Tender, once all selections/edits have been made and SPEC NOTES have been removed.

V SPECS VERIFIED SPEC NOTE: This Section has been scored against "Industry Standard Practices", using V SPECS proprietary 35pt Inspection and Scoring Methodology within its Product Master Specification Report Card.

*V SPECS VERIFIED Seal is Valid for 12 months beginning: **April 1, 2024***



PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Provide design and engineering, labor, material, equipment, related services, and supervision required, including, but not limited to, manufacturing, fabrication, erection, and installation for the Work of this section, including but not limited to the following:

- 1. Aluminum Siding: **FastPlank® V-NOTCH plank profile, 4 inch [101.6 mm] 6 inch [152.4 mm] or perforated soffit 4 inch [101.6 mm] or custom profile [Contact a FastPlank representative for assistance].**

1.3 REFERENCES

- A. General: The publications listed within form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only. The edition/revision of the referenced publications shall be the latest date as of the date of the contract documents, unless otherwise specified.
- B. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 2604 Voluntary Specification, Performance Requirements and Test Procedures for Premium Performing Organic Coatings on Aluminum Extrusions and Panels.
- C. ASTM International (ASTM):
 - 1. ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus.
 - 2. ASTM D714 Standard Test Method for Evaluating Degree of Blistering of Paints.
 - 3. ASTM D1654 Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
 - 4. ASTM D2247 Standard Practice for Testing Water Resistance of Coatings in 100 % Relative Humidity.
 - 5. ASTM D3363 Standard Test Method for Film Hardness by Pencil Test.
 - 6. ASTM D4214 Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films.

7. ASTM E329 Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection.

D. US Green Building Council LEED v4.1

E. PREINSTALLATION CONFERENCE

1. Preinstallation Conference: Prior to installation commencing at a date and time acceptable to the Owner and the Consultant,
2. Location: Project site, at date and time acceptable to the Owner and the Consultant.
3. Attendees: At minimum, the Contractor, Installer, and trades requiring coordination with the work.
4. Agenda: Review the following.
 - a. Material selections, installation procedures, and coordination with other trades.
 - b. Finalize construction schedule, availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - c. Methods and procedures related to installation, including manufacturer's written instructions.
 - d. Support Conditions: Verify compliance, alignment, and attachment to structural members.
 - e. Governing regulations and requirements for insurance, and authorities having jurisdiction.
 - f. Temporary protection; during and after installation.
 - g. Procedures for damaged siding repair after installation

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Sufficient information to determine compliance with the Drawings and Specifications.
1. Manufacturer's information sheets marked to include products proposed for use.
 2. Include, but is not limited to, construction details, material descriptions, dimensions of individual components and profiles, and finishes aluminum siding and accessories.
 3. Storage and handling recommendations.
- C. Shop Drawings: For each product and accessory required.
1. Include information not fully detailed in manufacturer's standard product data, including, but not limited to:
 - a. Installation layouts of aluminum plank siding
 - b. Details: Edge conditions, joints, plank profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
 - c. Accessories: Include details of the flashing, trim, and anchorage, at a scale of not less than 1-1/2 inches per 12 inches [38.1 mm per 304.8 mm].
 - d. Distinguish between factory- and field-assembled work.
- D. Samples:
1. For initial color selection.
 2. For each type of aluminum plank indicated with factory-applied color finishes.
 3. Manufacturer's color charts showing the full range of colors and finishes available.

4. Finishes Involving Normal Color Variations: Include samples showing the full range of variations expected.
 5. Exposed Sealants: Each type and color required. Install joint sealants in 1/2 inch [12.7 mm] wide joints formed between two 6 inch [152.4 mm] long strips of material matching the appearance of metal panels adjacent to joint sealants.
- E. Product Test Reports: For each product, tests are to be performed by a qualified testing agency.
- F. LEED v4.1 Submittals: Provide documentation of how the requirements of Credit will be met:
1. Product Data for Credit MR 2.1 and 2.2: For products being recycled, documentation of total weight of project waste diverted from landfill.
 2. Product Data for Credit MR 4.1 and MR 4.2: For products that have recycled content, documentation including percentages by weight of post-consumer and pre-consumer recycled content.
 3. Include statement indicating costs for each product having recycled content.
 4. Product Data for Credit MR 5.1 and Credit MR 5.2: Submit data, including location and distance from Project of Material: manufacturer and point of extraction, harvest, or recovery for main raw material.
 5. Include statement indicating cost for each regional Material: and the fraction by weight that is considered regional.

1.5 QUALITY ASSURANCE

- A. Qualifications:
1. Installer Qualifications: An employee of workers trained and approved by manufacturer.
 - a. A minimum of 5 years of experience, and has completed systems similar in material, design, and extent to that indicated for the Project and with record of successful performance.
 - b. Installer's Responsibilities: Include fabricating and installing metal panel assemblies and providing professional engineering services needed to assume engineering responsibility.
- B. Regulatory Requirements: Comply with applicable requirements of the laws, codes, ordinances, and regulations of Federal, State, and local authorities having jurisdiction.
1. Obtain necessary approvals from such authorities.
- C. Source Limitations: Obtain each type of siding through one source from a single manufacturer.
- D. Mock-Ups: Build mockups to verify selections made and to demonstrate aesthetic effects and to set quality standards for fabrication and installation.
1. Demonstrate prepared substrate, support/attachment framing, siding façade, exterior finishes, and aesthetic appearance.
 2. Confirm mock-up conforms with manufacturer's instructions and provisions of contract documents.
 3. To be accepted in writing by architect or general contractor before commencement of work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the project site in Supplier's or Manufacturer's original wrappings and containers, labeled with Supplier's or Manufacturer's name, material or product brand name, and lot number, if any.
 - 1. Deliver aluminum plank siding, and other manufactured items according to Manufacturer's instructions so as not to be damaged or deformed.
 - 2. Package all materials for protection during transportation and handling.
- B. Materials Storage: Store in original, undamaged packages and containers, inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.
 - 1. Unload and store aluminum plank siding in a manner to prevent bending, warping, twisting, and surface damage.
 - 2. Aluminum Plank Siding:
 - a. Cover with suitable weathertight and ventilated covering.
 - b. Ensure dryness, with positive slope for drainage of water.
 - c. Do not store in contact with other materials that might cause staining, denting, or other surface damage.
 - d. Do not allow storage space to exceed 120 degrees F (67 degrees C).
 - e. Handling: Prevent damage to surfaces, edges, and ends of siding. Reject and remove damaged Material: from site.
- C. Retain protective covering for period of plank installation.

1.7 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal composite material panels to be performed according to manufacturers' written instructions and warranty requirements.
- B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before siding fabrication and indicate measurements on Shop Drawings.
- C. Established Dimensions: Where field measurements cannot be made without delaying the Work, either establish framing and opening dimensions and proceed with fabricating metal panels without field measurements or allow for field trimming of siding. Coordinate wall construction to ensure that actual building dimensions, locations of structural members, and openings correspond to established dimensions.

1.8 COORDINATION

- A. Coordination: Coordinate siding systems with rain drainage work, flashing, trim, and construction of walls and other adjoining work to provide a leak proof, secure, and non-corrosive installation.

1.9 WARRANTY

- A. FastPlank® Systems: 50-Year Product Warranty against faults and defects in materials and workmanship attributed to the manufacturer. The FastPlank® Systems warranty shall be countersigned by the Manufacturer and the Installer.
 - 1. Failures include, but are not limited to, the following:

- a. Structural failures, including rupturing, cracking, or puncturing.
 - b. Deterioration of metals and other materials beyond normal weathering.
- B. Special Finish Warranty: Submit a written warranty, signed by Manufacturer, covering failure of the factory-applied exterior finish within the specified warranty period. Deterioration of finish includes, but shall not be limited to, color fade, chalking, cracking, peeling, and loss of film integrity.
 1. Warranty Period for Finish: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Acceptable Manufacturer: Engage Building Products Phone: 1-877-973-8746v URL: www.engagebp.com; Email: info@engagebp.com
 1. Basis of Design: FastPlank® Siding and Soffit Systems V-NOTCH profile. Systems is comprised of metal cladding and accessories.
 - a. Substitutions: [Approved equals.] [Not permitted.] [Submit as specified in accordance with appropriate sections in Division 01.] [In accordance with Section 01 60 00.]

2.2 METAL CLADDING

- A. Formed Aluminum Cladding: Tension levelled, aluminum in accordance with ASTM B209 and ANSI H35.1 alloy designation 6063 T6 and as follows:
 1. Plank Sizes: 16 feet [4877 mm] [~~x 4 inch [102 mm]. Weight: 0.549 lbs/ft (0.817 kg/m)~~] [~~x 6 inch [152 mm]. Weight: 0.691 lbs/ft (1.109 kg/m)~~].
 2. Profile: [~~Smooth~~] [~~Woodgrain~~].
 3. Finish: Smooth Profile: [~~Powder coating per AAMA 2604~~] Woodgrain Profile: [~~Woodgrain sublimation film as per AAMA 2604~~].
 4. Color: [~~As selected by Owner from manufacturer's standard finish guide~~] [~~Custom color matched~~].

2.3 ACCESSORIES[

- A. Trim Extrusions: 144 inch (3658 mm) long, corners and caps to profile.
- B. Clips: 1-1/2 inch (38 mm) long system clips.
- C. Fasteners:
 1. Attachment of Cladding to Steel Substrate: #10-12 self-drilling fasteners with EPDM washers and corrosion-resistant coating to withstand 1000 hours of salt spray protection.
 - a. Acceptable Materials: #10 Hex Head coated.
 2. Attachment of Cladding to Wood Substrate: #10-12 fasteners with EPDM washers and corrosion-resistant coating to withstand 1000 hours of salt spray protection.
 - a. Acceptable Materials: #10 Hex Head coated.

- D. Isolation Tape: Manufacturer's standard material for separating dissimilar metals from direct contact.
- E. Insulation Fastenings: Corrosion resistant, galvanized bugle head screws with 1-1/2 inch (38 mm) diameter washer, 1 inch [25 mm] minimum penetration into framing.
- F. Insulation: Rigid type
- G. Sealant: Color of exposed sealant to match adjacent cladding.
- H. Gaskets: Santoprene or EPDM as recommended by the manufacturer.
- I. Accessories: Cap flashings, drip flashings, internal corner flashings, copings and closures for head, jamb, sill, and corners, of same material, thickness and finish as exterior cladding, brake formed to shape.
- J. Bituminous Coating: Cold-applied asphalt mastic, in accordance with CGSB 1.108, compounded for 15 mil (0.38 mm) dry film thickness per coat with inert type non-corrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.4 FINISH PROPERTIES

- A. High Performance Powder Coated Finish: Passes coating performance testing in accordance with AAMA 2604
 - 1. Mechanical Test
 - a. Dry Adhesion per AAMA 2604.02, 7.4.1.1L: Pass. GTO.
 - b. Abrasion Resistance per AAMA 2604.02, 7.6: Pass. Abrasion coefficient greater than 20.
 - c. Dry Film Hardness per AAMA 2604.02, 7.3 ASTM D3363: Pass. No rupture of film.
 - d. Impact per AAMA 2604.02, 7.5: Pass. No tape removal of film to substrate following 1/10 inch [2.54 mm] deformation.
 - 2. Durability Testing:
 - a. Salt Spray per ASTM B117, AAMA 2604.02, 7.8.2, and ASTM D1654: Pass. At 3,000 hours, no corrosion more than 1/16 inch [1.6 mm] from scribe. Minimum blister rating 8.
 - b. Constant Humidity per ASTM D2247, ASTM D714, and AAMA 2604.02, 7.8.1: Pass. At 3000 hours. Blister formation less than "few" size no.8.
 - c. Exterior Durability: 5 years Florida Exposure AAMA 2604.02, 7.9: Excellent performance. Color Change less than 5. Gloss retention: Greater than 30 percent. Chalking: Not in excess of No.8 ASTM D4214:89.
- B. High Performance Sublimation Film on Powder Coated Finish. Passes coating performance testing in accordance with AAMA 2604.
 - 1. Powder coated finish
 - 2. Xenon Test: Scratch Performance of 1,000 Hours.
 - a. Residual Gloss: 88 to 104 percent.
 - b. Color Variation: 0.47 to 1.67
 - c. Grey Scale: 4 / 5
 - d. Result: Pass

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine areas and conditions under which the work is to be installed, and notify the Contractor in writing, with a copy to the Owner and the Architect, of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
 - 1. Examine substrates, areas, and conditions, with the Installer present, for compliance with requirements for installation tolerances, and other conditions affecting performance of the work.
 - 2. Examine wall framing to verify that girts, angles, channels, studs, and other support members and anchorage have been installed within alignment tolerances required.
 - 3. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking, and that installation is within tolerances required.
 - 4. Verify that weather-resistant sheathing paper has been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
 - 5. Examine rough-in for components and systems penetrating aluminum plank siding to verify actual locations of penetrations relative to seam locations of planks before plank installation.
 - 6. plank installation.
 - 7. The beginning of the work shall indicate acceptance of the areas and conditions as satisfactory by the Installer.

3.2 PREPARATION

- A. Coordination: Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorages that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to the project site.
- B. Obtain dimensions from project site before fabricating wall system.
- C. Ensure structural support is aligned and condition is acceptable.
- D. Building surfaces shall be smooth, clean, and dry, and free from defects detrimental to the installation of the system. Notify General Contractor of conditions not acceptable for installation of system.
- E. Inspect wall system and components before installation and verify that there is no shipping damage.
- F. Do not install damaged planks; repair or replace as required for smooth and consistent finished appearance.

3.3 INSTALLATION OF SIDING

- A. Install cladding and components in accordance with Manufacturer's written installation instructions and shop drawings.
- B. Ensure continuity of building envelope air barrier and vapor retarder systems.
- C. Erect components plumb and true.
- D. Install continuous starter strips, inside and outside corners, edgings, soffit, drip, cap, sill, and window/door opening flashings, as indicated.

- E. Install outside corners, fillers, and closure strips with carefully formed and profiled work.
- F. Maintain joints in exterior cladding, true to line, tight fitting, hair-line joints.
- G. Attach components in a manner not restricting thermal movement.
- H. Caulk junctions with adjoining work with sealant.
- I. Apply isolation coating to areas of contact between dissimilar metals.
- J. Touch-Up Painting: Inspect completed wall system and apply matching touch-up paint as needed to correct minor paint flaws.

3.4 ADJUSTING AND CLEANING

- A. Remove temporary protective coverings and strippable films, if any.
- B. On completion of aluminum siding plank installation, clean finished surfaces with mild domestic detergent and warm water using a soft cloth. Maintain in a clean condition during construction.
- C. After aluminum siding plank installation, clear all drainage channels of obstructions and/or dirt.
- D. Replace aluminum planks that have been damaged or have deteriorated beyond successful repair by finish touch-up or similar minor repair procedures.
- E. Any additional protection, after installation, shall be the responsibility of the general contractor to remove.

3.5 PROTECTION

- A. Protect installed products and components from damage during construction.
- B. Repair damage to adjacent materials caused by composite metal building panel installation.

END OF SECTION

Issue Date: 03-28-2023
Renewal Date: 03-31-2024

DIVISION: 07 00 00 – THERMAL AND MOISTURE
PROTECTION

Section: 07 46 00 – Siding

REPORT HOLDER:

Fastplank Inc.
101, 4441 - 76 Avenue SE,
Calgary, AB T2C 2G5
1-877-973-8746

www.fastplank.com [fastplank.com]

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 0.42² Clips staggered 16 in. every second plank³ Sheathing must comply with the Code⁴ Allowable Negative Design Pressure based on the average ultimate load of the assemblies and a safety factor of 2⁵ Maximum wall height of 10 ft. Wall deflection limit of L/180

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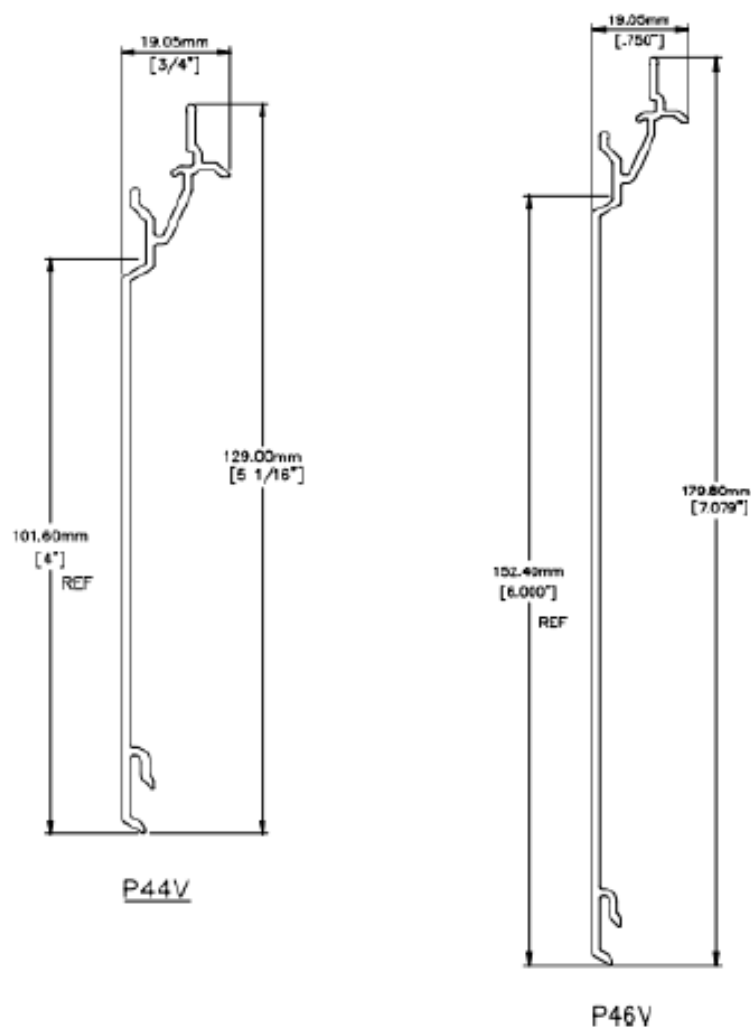


FIGURE 1 – PLANK DIMENSIONS



FIGURE 2 – FASTENING CLIPS

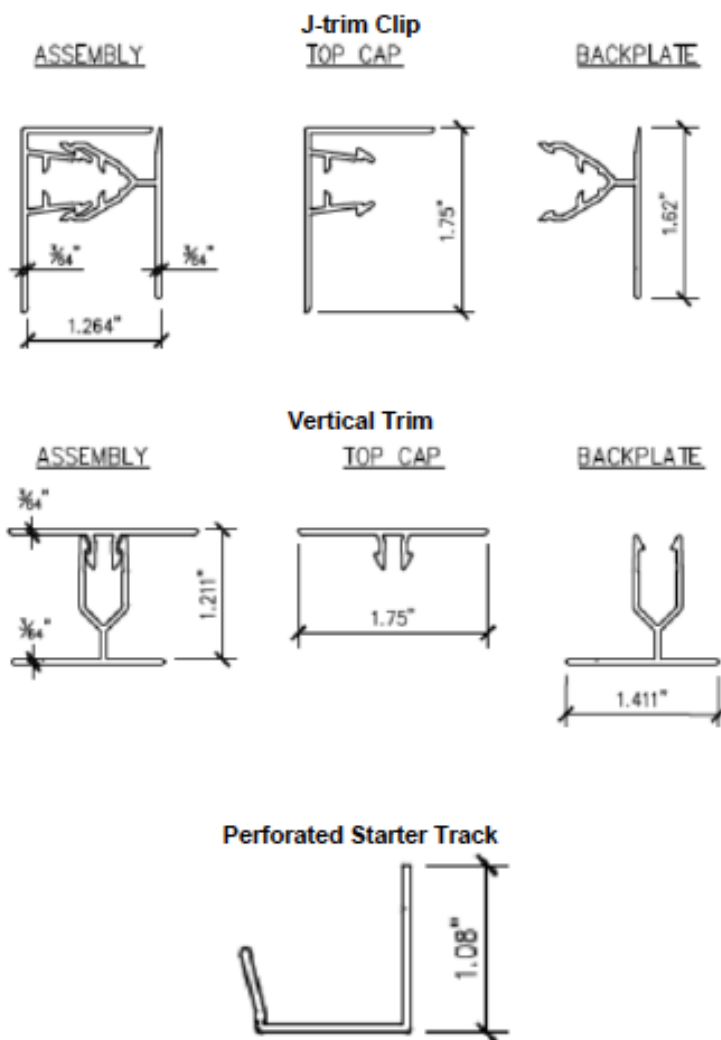


FIGURE 3 – TRIM AND ACCESSORIES

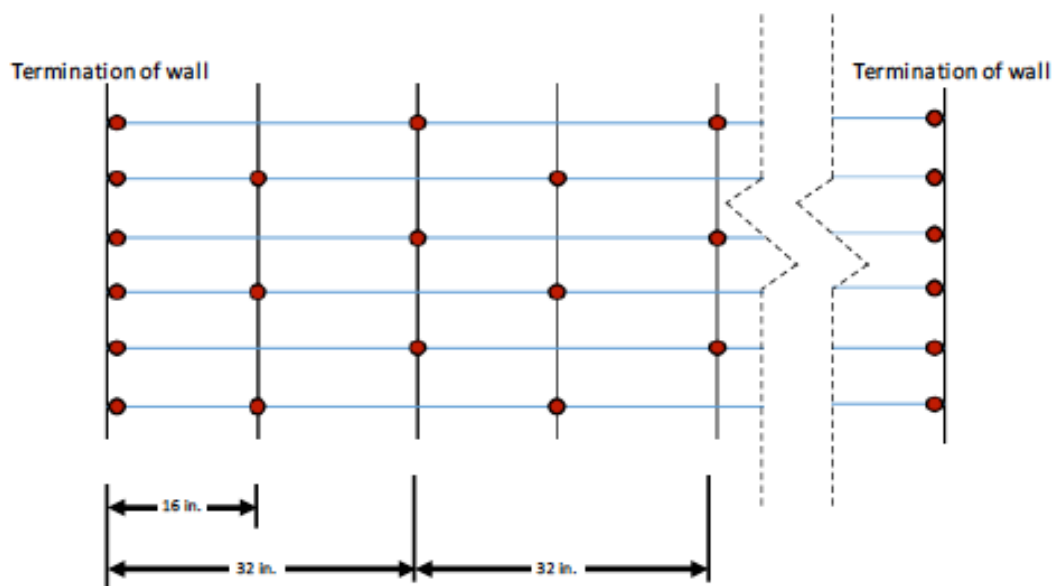


FIGURE 4 – CLIP INSTALLATION PATTERN

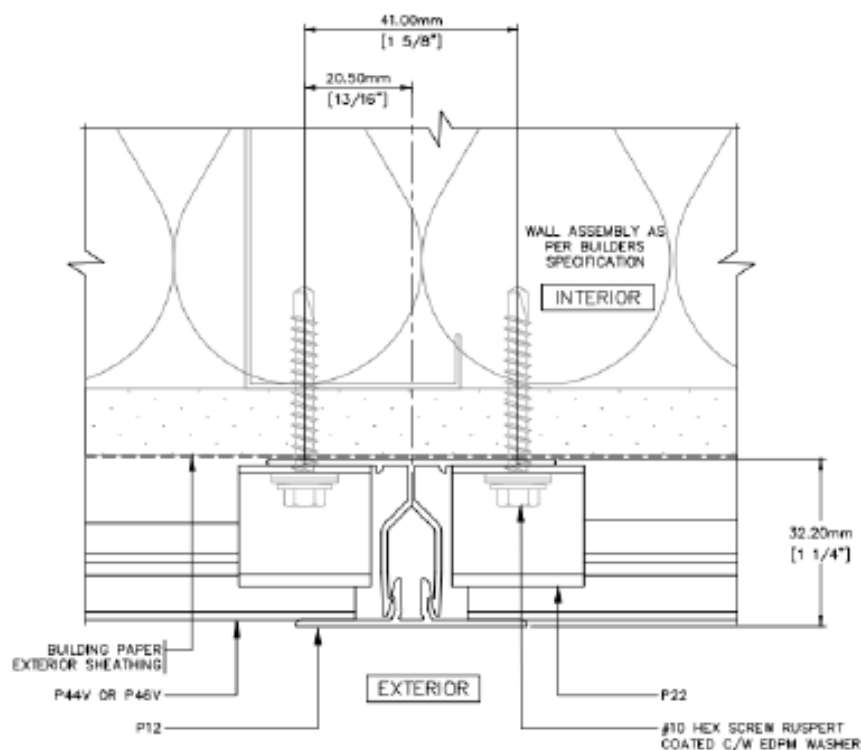
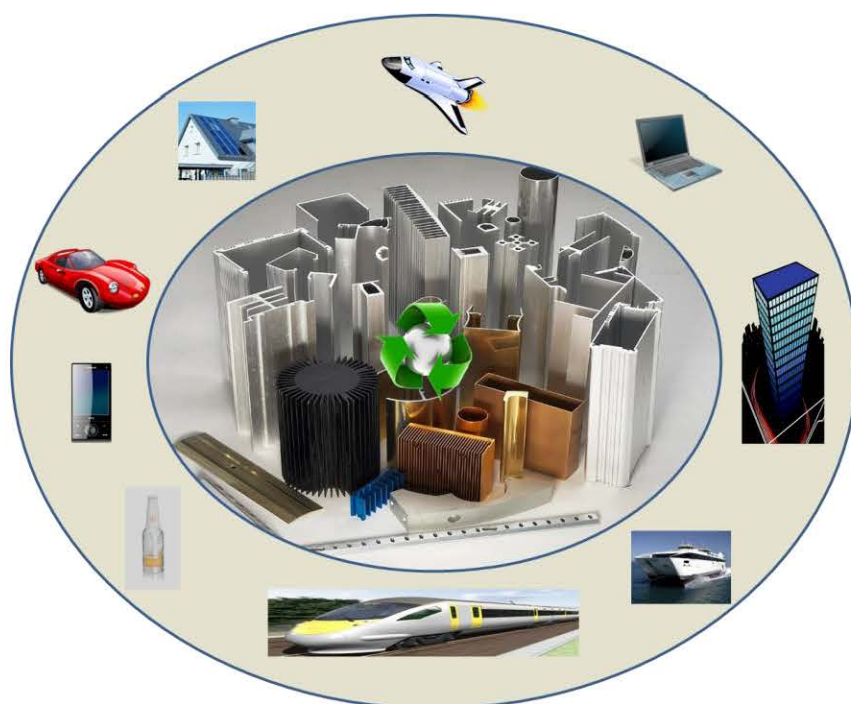


FIGURE 5 – TYPICAL INSTALLATION DETAIL

ENVIRONMENTAL PRODUCT DECLARATION

EXTRUDED ALUMINUM

INDUSTRY-AVERAGE EXTRUDED ALUMINUM
MANUFACTURED IN NORTH AMERICA



The Aluminum Association and the aluminum industry are committed to responsible environmental stewardship. Aluminum is one of the most sustainable materials in use today:

- Strong and lightweight: Aluminum's favorable strength-to-weight ratio means it can be substituted for heavier materials, driving energy efficiency.
- Infinitely recyclable: Aluminum can be recycled over and over again without losing any of its fundamental properties.
- Efficiency Improvements: Through voluntary industry efforts, the North American aluminum industry has reduced the carbon footprint of primary aluminum production by 37 percent since 1995.
- Corrosion-resistant: Durable aluminum lasts longer than many competing materials, limiting the need for replacement.
- Highly recycled: Aluminum is one of the most recycled materials on the market today. And producing recycled aluminum takes just 8 percent of the energy needed to make primary aluminum.



ENVIRONMENTAL PRODUCT DECLARATION

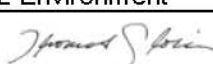


Extruded Aluminum Semi-Fabrication
Products of Aluminum and Aluminum Alloys

According to ISO 14025 and EN 15804

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.



PROGRAM OPERATOR	UL Environment
DECLARATION HOLDER	The Aluminum Association
DECLARATION NUMBER	4786092064.102.1
DECLARED PRODUCT	Extruded Aluminum
REFERENCE PCR	Products of Aluminum and Aluminum Alloys (IBU, July 2012)
DATE OF ISSUE	October 16, 2014
PERIOD OF VALIDITY	5 years
EXTENSION PERIOD	August 16, 2022
CONTENTS OF THE DECLARATION	Product definition and information about building physics Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications
The PCR review was conducted by:	The Independent Expert Committee
This declaration was independently verified in accordance with ISO 14025 by Underwriters Laboratories ☐ INTERNAL ☒ EXTERNAL	 Wade Stout, UL Environment
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Thomas Gloria, Industrial Ecology Consultants

This EPD conforms with EN 15804

ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Product

Product Description

This EPD covers the production of semi-fabricated and surface-finished aluminum extrusion products. The results represent an average across all extruded aluminum products manufactured in North America (United States and Canada). Averages are obtained through aggregating production-weighted data from the participating data.

Applications

Extruded aluminum is used in a variety of market sectors, including the following:

- Transportation: automobile structures and components, truck and trailer structures and components, train structure and components, aircraft structure and components, etc.
- Building, construction and infrastructure: building windows, doors, curtain walls, facades, skylights, green houses, roof structures, furniture and decorations, solar device frames and structures, structure and components of bridges and stadiums, etc.
- Consumer durables: components of consumer durable goods, such as computers, home appliances, and recreation devices and utilities.

Technical Data

Name	Value	Unit
Density	2.66-2.84	(kg/m ³) x 10 ³
Melting point (Typical)	475-655	°C
Electrical conductivity (Typical) at 20°C/at 68°F	Equal Volume: 16-36	MS/m (0.58*%IACS)
Thermal conductivity (Typical) at 25°C/at 77°F	113-234	W/(m.K)
Average Coefficient of thermal expansion (Typical) 20° to 100°C /68° to 212°F	22.3-23.9	per °C
Modulus of elasticity (Typical)	69-73	MPa x 10 ³
Hardness (Typical)	19-150	HB
Yield strength (min)	15-490	MPa
Ultimate tensile strength (min)	60-560	MPa
Breaking elongation (min) (50mm & 4D)	>4	%
Chemical composition	Varying alloy by alloy, Al 87.17-99.6	% by mass



ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Application Rules

ASTM B221-13/B221M-13 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

ASTM B241/B241M-12e1 Standard Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube

ASTM B317/B317M-07 Standard Specification for Aluminum-Alloy Extruded Bar, Rod, Tube, Pipe, Structural Profiles, and Profiles for Electrical Purposes (Bus Conductor)

ASTM B345/B345M-11 Standard Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube for Gas and Oil Transmission and Distribution Piping Systems

ASTM B429/B429M-10e1 Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube

ASTM B491/B491M-06 Standard Specification for Aluminum and Aluminum-Alloy Extruded Round Tubes for General-Purpose Applications

Delivery Status

The output of the extrusion process is a semi-fabricated and surface finished extrusion product transported to a component or final product manufacturer.

Base and Ancillary Materials

Extruded aluminum products made in North America contain a considerable proportion of metal recycled from aluminum scrap. The metal composition of products, based on metal feedstock information collected at the melting furnaces for extrusion billet making, is shown below. Products shipped to different market sectors may vary significantly on its metal compositions. Recovered aluminum from internal process (run-around) scrap is considered as a repeated closed-loop manufacturing process and therefore is excluded from metal composition declaration. Definitions of Internal Process (Run-Around) Scrap, Post-Industrial Scrap and Post-Consumer Scrap are consistent with ISO 14021/25 (2006) on environmental labels and declarations, and the related interpretations by UL Environment.

Extruded aluminum products may include various types of coatings, including anodized, painted, and laquered finishes. All coating materials are included in inventory, based on averages across the industry.

Category of Metal Source	Percentage (by mass)
Primary Aluminum (including alloy agents)	49
Recovered Aluminum from Other Post-Industrial Scrap	20
Recovered Metal from Post-Consumer Scrap	31

ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Manufacture

The extrusion process takes cast extrusion billet (round bar stock produced from direct chill molds) and produces extruded shapes. The process begins with an inline preheat that takes the temperature of the billet to a predetermined level depending on the alloy. The billet is then sheared if not already cut to length and deposited into a hydraulic press. The press squeezes the semi-plastic billet through a heated steel die that forms the shape. The shape is extruded into lengths defined by the take-off tables and is either water quenched or air cooled. The shape is then clamped and stretched to form a solid straightened length.

The straighten lengths are cut to final length multiples and may be placed in an aging furnace to achieve a desired temper. Lengths are then finished (drilled and shaped) and placed into a coating process. The types of coatings include anodized, painted, and lacquered finishes.

Environment and Health during Manufacturing

Air: Hazardous air emission releases comply with regulatory thresholds.

Water/soil: Pollutants in wastewater discharge comply with regulatory thresholds.

Noise: Due to adequate acoustical absorption and mitigation devices, measurements of sound levels have shown that all values inside and outside the production plant comply with regulatory thresholds.

Product Processing and Installation

Further processing and installation of extruded aluminum product depends on the final application of the product and is outside the scope of this EPD.

Packaging

Product delivery packaging includes wood, steel, paper board, and sometimes plastic wraps. Packaging is included in the scope of this EPD.

Condition of Use

No special conditions of use are relevant for this product under the scope of this EPD.

ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Environment and Health During Use

The environmental and health effects during use are dependent on the ultimate use of the extruded aluminum and are outside the scope of this EPD. The following general statements are relevant for all aluminum products:

- Aluminum products are often made from both primary and recycled ingots
- There is no relevant chemical composition difference between primary and secondary ingots if both are governed by the same alloy designation and chemical composition limit standards
- The service life of the final product depends on its application, but is typically long due to aluminum's excellent corrosion resistance
- For that same reason, maintenance needs during use are usually low.

Reference Service Life

Service lives for aluminum extrusions vary based on the application. This EPD does not cover the product use phase and therefore makes no specific claim as to a typical reference service life.

Extraordinary Effects

Fire: Aluminum products comply with all local and federal laws with respect to fire hazards and control.

Water: There is no evidence to suggest water runoff or exposure under normal and intended operation will violate general water quality standards.

Mechanical destruction: Not relevant for aluminum extrusions.

Recycling Phase

Aluminum is a highly recyclable material. During manufacturing, most process and new scrap are fed back into the production process. At the end of life, aluminum scrap is collected and sold to both secondary smelting and semi-fabrication companies. The recycling rate for aluminum scrap is assumed to be 95%. Recycling over 95% is typical for aluminum products in high volume automotive and construction market sectors (IAI 2013).

Post-industrial scrap is highly utilized within the aluminum industry. Most process and new scrap materials that occur in the manufacture and processing of extruded aluminum are fed back into the production process.

Disposal

It is assumed that 5% of the extruded aluminum products are sent to the landfill for disposal at the end of life. The European Waste Code for aluminum is 17 04 02.

ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Further Information

For further information on aluminum and aluminum products, please visit the Aluminum Association website:
www.aluminum.org.

The life cycle assessment was conducted by PE INTERNATIONAL using GaBi data.



ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Life Cycle Assessment

Declared Unit

The declared unit is the production and end-of-life treatment of one metric ton of extruded aluminum product. The results can be converted to one kilogram by dividing by 1000.

System Boundary

This is a “cradle-to-gate – with options” EPD. The following processes are considered in the product stages A1–A3 of the aluminum extrusion production:

- The provision of resources, additives and energy
- Transport of resources and additives to the production site
- Production process of extruded aluminum on site, including energy, production of additives, disposal of production residues, consideration of related emissions, and recycling of production scrap (“closed loop”).

Product stages C4 and D are also included, with 95% of the extruded product assumed to be recycled at the end-of-life, and 5% disposed of by landfilling. End-of-life recycling is accounted for using the avoided burden recycling methodology.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED)																
PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport	Construction-installation process	Use	Maintenance	Repair	Replacement ¹	Refurbishment ¹	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	X	X



ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Estimates and Assumptions

The LCA required only limited use of estimates and assumptions. The most relevant estimation/assumption is the end-of-life recycling rate of 95%, which is discussed in the *Recycling Phase* section. Averages and best-estimates were used to fill in minor data gaps, such as the source of ingots for some facilities. Other estimates and assumptions are discussed in detail in the LCA background report.

Cut-off Criteria

Input: All material flows that enter the system and are over 1% of the product mass or contribute more than 1% to the primary energy consumption are included.

Output: All material flows that exit the system and whose environmental impact makes up more than 1% of the total impact in an impact category considered are included.

Background Data

In order to model the life cycle for the production of the extruded aluminum, the GaBi 6 software system developed by PE INTERNATIONAL was used. All relevant background data necessary for the production of cold-rolled aluminum were taken from the GaBi 2012 databases or were made available by the Aluminum Association through industry survey results. Companies participating in the project, either with AA or AIA, are provided in the *Participating Companies* section.

Data Quality

The data is considered of high quality. Inventory data quality is judged by its precision (measured, calculated or estimated), completeness (e.g., unreported emissions), consistency (degree of uniformity of the methodology applied on a study serving as a data source) and representativeness (geographical, temporal, and technological). To cover these requirements and to ensure reliable results, first-hand industry data in combination with consistent background life cycle inventories from the GaBi 2012 database were used.

The LCI data sets from the GaBi database are widely distributed and used with the GaBi 6 Software. The datasets have been used in LCA models worldwide in industrial and scientific applications in internal as well as in many critically reviewed and published studies. In the process of providing these datasets, they are cross-checked with other databases and values from industry and science.

ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Period under Review

Primary data collected from the participating companies and from their operational activities is representative for the year of 2010. Additional data necessary to model raw material production and energy generation, etc. were adopted from the GaBi 6.0 software system database.

During the survey, however, a small group of semi-fabrication facilities reported operational data for 2008, 2009, or 2011, depending on the time when they started to respond to the survey and the convenience of their data availability. This deviation from the defined reference year has been taken into account as it is being assumed that there are no radical changes in the technology and operational practice for semi-fabrications from the year 2008 to 2011. Additional data necessary to model raw material production, energy generation, etc. were adopted from the GaBi 2012 database with typical reference years between 2006 and 2010.

Allocation

Allocation is used to address recycled content, post-production scrap, and waste at end-of-life. The avoided burden allocation approach was applied. Under this approach, end-of-life scrap is first balanced out with any open scrap inputs into production. Only the remaining *net scrap* is then modeled as being sent to material recycling in order to avoid double-counting the benefits of using recycled content. If more scrap is recovered at product end-of-life than is required in the manufacturing stage, the product system receives a credit equal to the burden of primary material production minus the burden of recycling scrap into secondary material based on the mass of secondary material produced. This credit represents the avoided burden of primary material production.

Comparability

A comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to EN 15804 and the building context, respectively the product-specific characteristics of performance are taken into account.

ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Life Cycle Assessment: Results

Results given per one metric ton of extruded aluminum.

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing A1-A3	End-of-Life C4	Credits D
GWP	kg CO ₂ eq	6.57E+03	2.17E+00	-4.13E+03
ODP	kg CFC-11 eq	4.14E-07	2.50E-10	-1.74E-07
AP	kg SO ₂ eq	4.01E+01	8.86E-03	-2.95E+01
EP	kg PO ₄ ³⁻ eq	1.90E+00	8.03E-04	-1.22E+00
POCP	kg C ₂ H ₄ eq	2.21E+00	1.00E-03	-1.48E+00
ADPE	kg Sb eq	3.97E-03	8.03E-07	-2.20E-03
ADPF	MJ	7.13E+04	3.43E+01	-3.89E+04

TRACI 2.1

Parameter	Unit	Manufacturing A1-A3	End-of-Life C4	Credits D
GWP	kg CO ₂ eq	6.57E+03	2.17E+00	-4.13E+03
ODP	kg CFC-11 eq	4.41E-07	2.66E-10	-1.85E-07
AP Air	kg SO ₂ eq	3.75E+01	8.99E-03	-2.72E+01
AP Water	kg SO ₂ eq	6.13E-02	9.08E-06	-2.23E-03
EP Air	kg N eq	6.62E-01	1.30E-03	-3.88E-01
EP Water	kg N eq	1.12E-01	7.69E-05	-6.22E-02
SP	kg O ₃ eq	3.27E+02	1.40E-01	-2.10E+02
FF	MJ	5.91E+03	4.30E+00	-2.49E+03

RESOURCE USE

Parameter	Unit	Manufacturing A1-A3	End-of-Life C4	Credits D
PERE	[MJ]	3.12E+04	1.59E+00	-2.45E+04
PERM	[MJ]	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	3.12E+04	1.59E+00	-2.45E+04
PENRE	[MJ]	7.13E+04	3.43E+01	-3.89E+04
PENRM	[MJ]	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	7.13E+04	3.43E+01	-3.89E+04
SM	[kg]	4.26E+02	0.00E+00	0.00E+00
RSF	[MJ]	0.00E+00	0.00E+00	0.00E+00
NRSF	[MJ]	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	1.37E+05	-8.20E+01	-1.07E+05

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing A1-A3	End-of-Life C4	Credits D
HWD	[kg]	1.69E+03	0.00E+00	-1.57E+03
NHWD	[kg]	7.82E+01	5.00E+01	-6.24E+01
RWD	[kg]	4.19E+00	4.42E-04	-2.35E+00
CRU	[kg]	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	8.47E+00	9.50E+02	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	0.00E+00
EEE	[MJ]	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	0.00E+00	0.00E+00	0.00E+00

Glossary

Environmental Impacts

GWP	Global warming potential
ODP	Depletion potential of the stratospheric ozone layer
AP	Acidification potential
EP	Eutrophication potential
POCP	Photochemical oxidant formation potential
SFP	Smog formation potential
ADPE	Abiotic depletion potential for non-fossil resources
ADPF	Abiotic depletion potential for fossil resources
FF	Fossil fuel consumption

Resource Use

PERE	Renewable primary energy as energy carrier
PERM	Renewable primary energy resources as material utilization
PERT	Total use of renewable primary energy resources
PENRE	Non-renewable primary energy as energy carrier
PENRM	Non-renewable primary energy as material utilization
PENRT	Total use of non-renewable primary energy resources
SM	Use of secondary material
RSF	Use of renewable secondary fuels
NRSF	Use of non-renewable secondary fuels
FW	Use of net fresh water

Output Flows and Waste Categories

HWD	Hazardous waste disposed
NHWD	Non-hazardous waste disposed
RWD	Radioactive waste disposed
CRU	Components for re-use
MFR	Materials for recycling
MER	Materials for energy recovery
EEE	Exported electrical energy
EET	Exported thermal energy



ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
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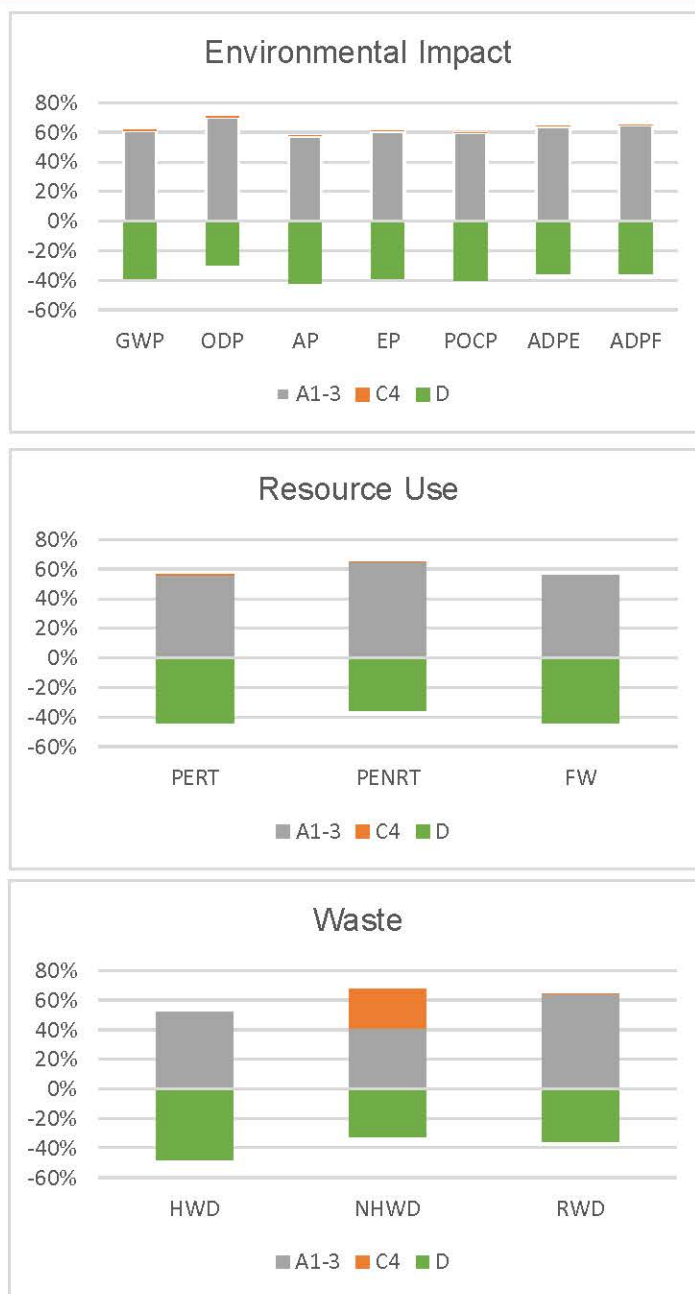
According to ISO 14025

Life Cycle Assessment: Interpretation

The results represent the cradle-to-gate and end-of-life environmental performance of a metric ton of extruded aluminum. The majority of the environmental impacts are from the production of the aluminum, however the credits from recycling the aluminum at end-of-life help to offset the initial burden.

As with any metal, the recycling rate has a significant impact on the life cycle environmental performance of extruded aluminum. A 95% recycling rate is assumed. Aluminum is an ideal material for recycling because the metal can be recycled over and over again without any loss in quality (AIA 2013).

Finally, it is interesting to note that the landfilling of extruded aluminum in C4 has a negative use of net fresh water (FW). This is due to the landfill collecting rain water and introducing it into the watershed as landfill leachate, following the blue water calculation methodology.



ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

Participating Companies

Company	Data Category	Note
Alcoa Inc.	Bauxite, Alumina, Primary Aluminum, Recycled Aluminum, Hot and Cold Rolling, Extrusion	Includes Kawneer and Traco
Aleris International Inc.	Recycled Aluminum, Hot and Cold Rolling	
Alexandria Extrusion Company	Extrusion	
Century Aluminum Company	Primary Aluminum	
Constellium	Hot and Cold Rolling	At the time of data survey, it was owned by Rio Tinto Alcan
Grupo Cuprum	Recycled Aluminum, Extrusion	
Hydro Aluminum North America	Bauxite, Alumina, Recycled Aluminum, Extrusion	
Jupiter Aluminum Corporation	Recycled Aluminum, Hot and Cold Rolling	
Kaiser Aluminum	Recycled Aluminum, Hot and Cold Rolling, Extrusion	
KB Alloy	Recycled Aluminum	
Logan Aluminum	Recycled Aluminum, Hot and Cold Rolling	
Metal Exchange Corporation	Recycled Aluminum, Extrusion	
Minalex Corporation	Extrusion	
Nichols Aluminum	Recycled Aluminum, Hot and Cold Rolling	
Noranda Aluminum Inc.	Alumina, Primary Aluminum	
Novelis Inc.	Recycled Aluminum, Hot and Cold Rolling	
Ormet Corporation	Alumina, Primary Aluminum	
Peerless of America	Extrusion	
Penn Aluminum International LLC	Extrusion	
Rio Tinto Alcan	Bauxite, Alumina, Primary Aluminum	
Sapa Extrusions Inc.	Recycled Aluminum, Extrusion	
Scepter Inc.	Recycled Aluminum	
Sherwin Alumina	Alumina	
Smelter Service Corporation	Recycled Aluminum	
Tri-Arrows Aluminum Inc.	Recycled Aluminum, Hot and Cold Rolling	



ENVIRONMENTAL PRODUCT DECLARATION



Extruded Aluminum
Products of Aluminum and Aluminum Alloys

According to ISO 14025

References

EN 15804:2011-04: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

IAI (2013). *Global Life Cycle Inventory Data for the Primary Aluminum Industry*. London, International Aluminium Institute. 2013.

ISO 14025. DIN EN ISO 14025:2009-11: Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

IBU (2011). Institut Bauen und Umwelt e.V., Königswinter (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report. 2011. www.bau-umwelt.de.

IBU (2012). PCR 2011 Part B. Institut Bauen und Umwelt e.V., Königswinter (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part B: Requirements on the EPD for Products of Aluminium and Aluminium Alloys. 2012. www.bau-umwelt.de.

USGS (2011). *2010 Minerals Yearbook – Bauxite and Alumina*. Washington, D.C.: United States Geological Survey, Department of Interior. 2011.

FastPlank
by Engage Building Products

Health Product
Declaration v2.3
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 30547

CLASSIFICATION: 07 46 16 Aluminum Siding

PRODUCT DESCRIPTION: A complete 4" or 6" V-Notch™ woodgrain 100% recyclable aluminum siding system for single-family homes, multifamily developments and commercial buildings.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	For all contents above the threshold, the manufacturer has:
☐ Nested Materials Method ☒ Basic Method	☒ 100 ppm ☐ 1,000 ppm ☐ Per GHS SDS ☐ Other	☒ Completed ☐ Partially Completed ☐ Not Completed Explanation(s) provided : ☒ Yes ☐ No	Characterized ☒ Yes ☐ No Provided weight and role. Screened ☒ Yes ☐ No Provided screening results using HPDC-approved methods. Identified ☒ Yes ☐ No Provided name and CAS RN or other identifier.
Threshold Disclosed Per			
☐ Material ☒ Product			

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY
 GREENSCREEN SCORE | HAZARD TYPE FASTPLANK [ALUMINUM
 BM-1 | END | MAM | PHY MANGANESE LTP1 | END | MUL | REP
 | MAM | AQU CHROMIUM LT-P1 | END | SKI | GEN | REP | MAM
 MAGNESIUM LT-UNK | PHY | SKI]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1)

... BM-1, LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 100ppm.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

listings.

VOC emissions: Inherently non-emitting source per LEED

LCA: Environmental Product Declaration (EPD) by UL

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional

Third Party Verified?

☐ Yes
☒ No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-10-17

PUBLISHED DATE: 2022-11-03

EXPIRY DATE: 2025-10-17

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

FastPlank

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 100ppm.

OTHER PRODUCT NOTES: For more information on FastPlank products visit: <https://fastplank.com/>

ALUMINUM

ID: 7429-90-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-10-17 8:25:11

%: 85.0000 - 95.0000

GreenScreen: BM-1

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

Hazard Type	Agency and List Titles	Warnings
END	TEDX - Potential Endocrine Disrupters	Potential Endocrine Disrupter
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
PHY	GHS - New Zealand	Flammable solids category 1
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
PHY	GHS - Japan	H261 - In contact with water releases flammable gas [Substances and mixtures, which in contact with water, emit flammable gases - Category 2]
PHY	GHS - Malaysia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - Australia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand	Pyrophoric solids category 1

Additional Listings	Agency	Notification
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products

SUBSTANCE NOTES: Category of Metal Source Percentage (by mass)

Primary Metal (including alloying agents) 49

Recovered Aluminum from Post-Industrial (Pre-Consumer) Scrap 20

Recovered Aluminum from Post-Consumer Scrap 31

Hazard Type	Agency and List Titles	Warnings
END	TEDX - Potential Endocrine Disrupters	Potential Endocrine Disrupter
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazardous to Waters
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity -repeated exposure - Category 1]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3

Additional Listings	Agency	Notification
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products

SUBSTANCE NOTES:

Hazard Type	Agency and List Titles	Warnings
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
SKI	GHS - Japan	H317 - May cause an allergic skin reaction [Skin sensitizer - Category 1]
REP	GHS - New Zealand	Reproductive toxicity category 2
MAM	GHS - Japan	H371 - May cause damage to organs [Specific target organs/systemic toxicity following single exposure - Category 2]

Additional Listings	Agency	Notification
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPH)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products

SUBSTANCE NOTES:

MAGNESIUM

ID: 7439-95-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-10-17 8:25:13

%: 0.0000 - 1.2000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

Hazard Type	Agency and List Titles	Warnings
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - Australia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand	Self-heating substances and mixtures category 1
PHY	GHS - New Zealand	Substances and mixtures which, in contact with water, emit flammable gases category 1
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation -Category 2]
PHY	GHS - Australia	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]

Additional Listings	Agency	Notification
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

Inherently non-emitting source per LEED

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: None
CERTIFICATE URL:

ISSUE DATE: 2022-10-17
EXPIRY DATE: 2024-10-17

CERTIFIER OR LAB: None

CERTIFICATION AND COMPLIANCE NOTES:

LCA

Environmental Product Declaration (EPD) by ULC

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL:

<https://cdn.ymaws.com/www.aec.org/resource/resmgr/sustainability/epd/11-2022/102.1-thermally-improved.pdf>

ISSUE DATE: 2016-10-16
EXPIRY DATE:

CERTIFIER OR LAB: UL

CERTIFICATION AND COMPLIANCE NOTES:

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information, Engage Building Products expresses no opinion and makes no representations as to the applicability, suitability, accuracy or completeness of the declaration form, or the standards, rules, classifications, warnings or criteria utilized or referenced therein. Information provided herein is qualified in the entirety by reference to the applicable product Material Safety Data Sheet (MSDS) which can be located at <https://fastplank.com/installation-resources/>

Section 6: Reference

MANUFACTURER INFORMATION

MANUFACTURER: Engage Building Products
ADDRESS: 4441 76 Ave SE #101
Calgary Alberta T2C 2G8, Canada
WEBSITE: www.engagebp.com

CONTACT NAME: Tracy Kelley
TITLE: Architectural Support Manager
PHONE: (877) 973-8746
EMAIL: Tracy.Kelley@engagebp.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product
Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.

FASTPLANK® SYSTEMS

| INSTALLATION GUIDE

High Performance Aluminum Plank Siding System



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Product Description

FastPlank® Systems is a aluminum plank siding system with built-in rainscreen. It is highly durable providing superior protection against wind, hail, and fire. Planks come in both 4" and 6" V-NOTCH™ profiles that can be applied horizontally, diagonally, or any other creative application to elevate your curb appeal. FastPlank® can be removed, easily repainted or refinished, and re-installed at a fraction of the cost and time of a complete siding replacement.



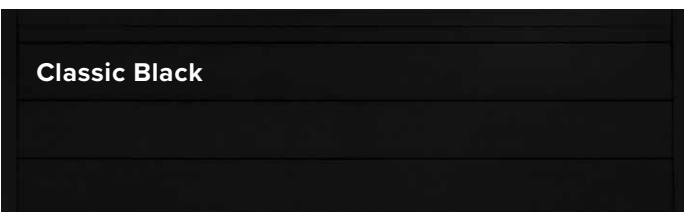
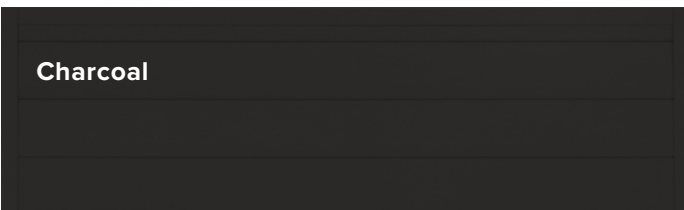
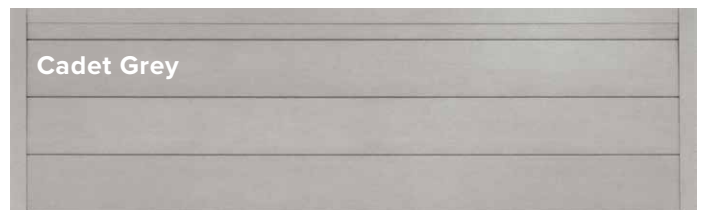
Features

- ✓ Built-In Moisture Management
- ✓ Concealed Fasteners
- ✓ Hail / Impact Resistant
- ✓ Non-Combustible
- ✓ Fade Resistant
- ✓ Complimentary Color Samples
- ✓ No Obligation, Free Estimates
- ✓ Mock-up Material Available at No Charge



Stock Woodgrain and Solid Colors

Choose from four woodgrains, our four standard colors or ask us to find out more about ColorMatch options. Some color options may be subject to minimum order quantities and/or longer lead times. Please inquire with your local dealer or distributor.



- ✓ Woodgrain sublimation by Sublitouch (by Sublitex) with Qualideco Class 2 rating
- ✓ High quality, high-definition “Touch” finish for impeccable realism
- ✓ Durable and maintenance-free
- ✓ Eco-friendly and sustainable production process
- ✓ Superior selection of woodgrain patterns and colors
- ✓ 20-year finish warranty

All FastPlank™ finishes are durable, maintenance-free, and come with a 20-year warranty. The FastPlank™ V-NOTCH™ System 20-Year Finish Warranty is extended to original purchasers of the FastPlank™ V-NOTCH™ System. This Warranty is for the benefit of the original property owner who purchased the product and is not transferable.

Before You Get Started

- ✓ Follow your local building codes and project specifications.
- ✓ Wear appropriate safety equipment and ensure a safe work environment.
- ✓ Ensure that you have ALL the correct tools and they are in safe working order.
- ✓ Material will be received on an pallet (Figure 4.1). Pallet size will vary (typical pallet size is 12'-16' L x 33" W x 24"-32" T). All products will be labeled separately. Inspect all material for damage, defect, correct color, correct color consistency, and correct trim specification.
- ✓ Verify your labels to ensure you have all the correct components for your order, each bag is labeled.
- ✓ All one-piece profiles are wrapped and labeled on the bag tag for type and finish.
- ✓ All two piece profiles (top caps and back plates) are bagged individually and wrapped together. The labels for two piece profiles are identified with joint labels showing both components. Verify what is in the bag.

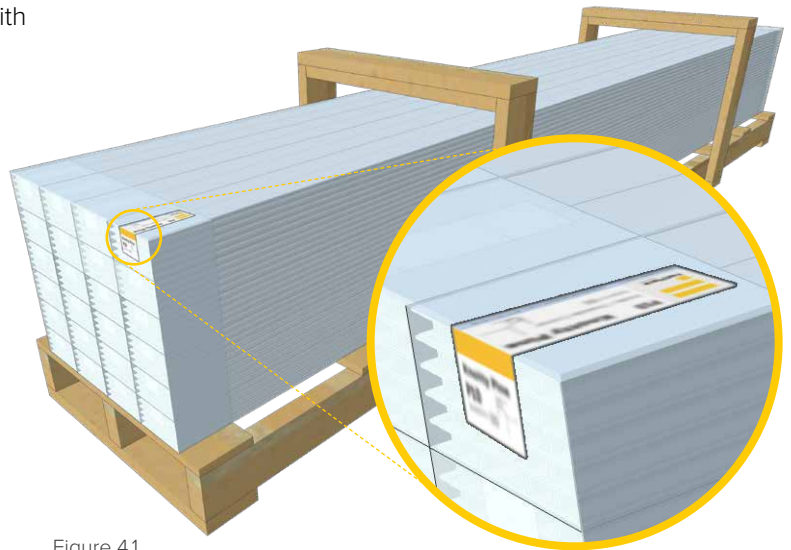


Figure 4.1



IMPORTANT:

Failure to complete all of these initial steps to get started may impact product performance, void the product and/or finish warranty, impact project time/budget, and increase the risk of personal injury.

Installation Support

Our Installation Support Team is available for additional instruction, to ensure that your project is executed not only correctly, but efficiently – saving you time and money.

Please contact us at 1-877-973-8746 to reach our dedicated Installation Support Team.



Care & Maintenance

FastPlank Systems are designed to be maintenance free and do not require any specific care or maintenance after installation. If needed, mild soap can be used to clean the surface.

Storage & Handling

Product may be stored outdoors; moisture and temperature will not damage aluminum.

Do not stack other material on top of trims or Planks.

To avoid any unnecessary damage, do not slide or drag trims on the ground or against any abrasive surface



Personal Protection Equipment (PPE)

We recommend the appropriate use and application of the following PPE during installation.

- | | |
|--------------------------------|---------------------------|
| 1. Steel Toe Boots | 7. Fall Protection |
| 2. Cut Resistant Gloves | 8. Dust Mask |
| 3. Safety Glasses | 9. First Aid Kit |
| 4. Hard Hat | |
| 5. Ear Protection | |
| 6. Safety Vest | |



WARNING

Consult your local safety codes and regulations.

Tools & Accessories

The following general tools will also be required for installation:

1. Sawhorses / worktables
2. Mitre saw with non-ferrous metal cutting blade
3. Power cord
4. Impact driver / drill, with appropriate bits
5. Drill bit set
6. Carpenter's pencil
7. Chalk line
8. Level
9. Carpenter's square
10. EasyTrim Reveals® HammerBlock®
11. Hammer
12. Rubber dead blow hammer
13. Tape measure
14. Pocket laser level
15. Utility knife
16. Needle nose pliers
17. Pry bar
18. Tin snips



System Info

Most trims are a two piece design. Each will have a back plate that is installed prior to Plank installation and a top cap that is clipped into the back plate after the Planks have been installed. (Figure 8.1)

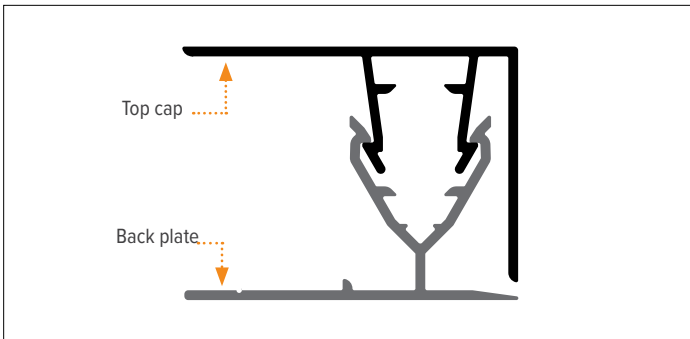


Figure 8.1

The inside / outside corner is finished on both trims because depending if you want and inside or outside corner you would use the same components but just reverse the order of install. (Figure 8.2)

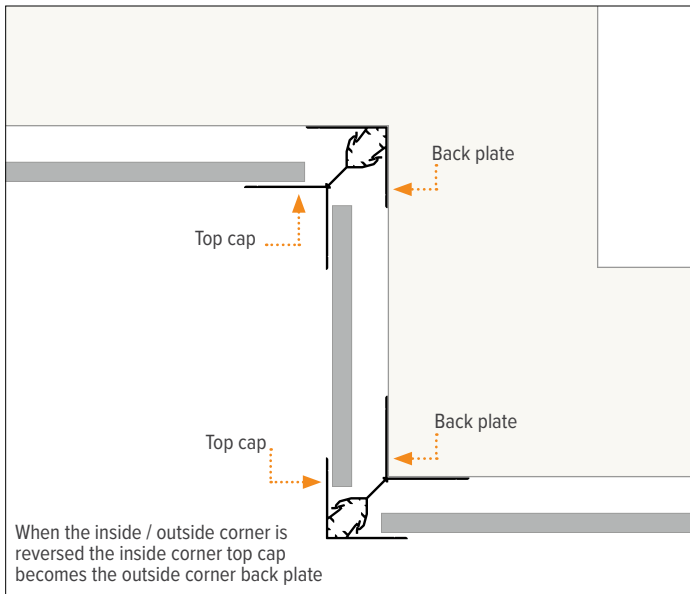


Figure 8.2

All ends of Planks need a Plank Clip fastened through the fastener line with the exception of inside corners. (Figure 8.3)

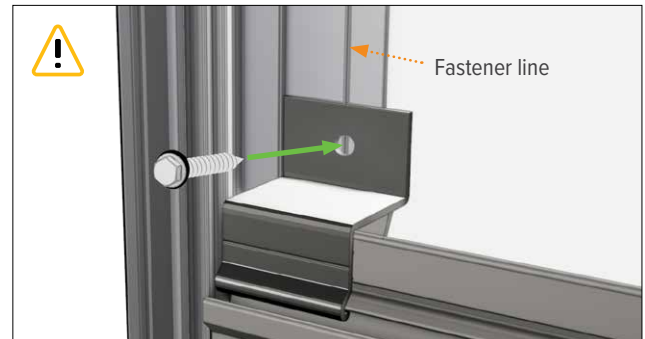


Figure 8.3

Inside corners should have a Plank Backer behind the upper portion of the exposed face of the Plank. The Plank Backer should be fastened through the fastener line of the inside corner back plate. (Figure 8.4)



Figure 8.4



IMPORTANT

Clips must be fastened onto the fastener line at both ends of the Plank except with inside corners. (Figure 8.3)

The Plank Clip allows for expansion of the Planks which prevents buckling and bowing.
(Figure 9.1)

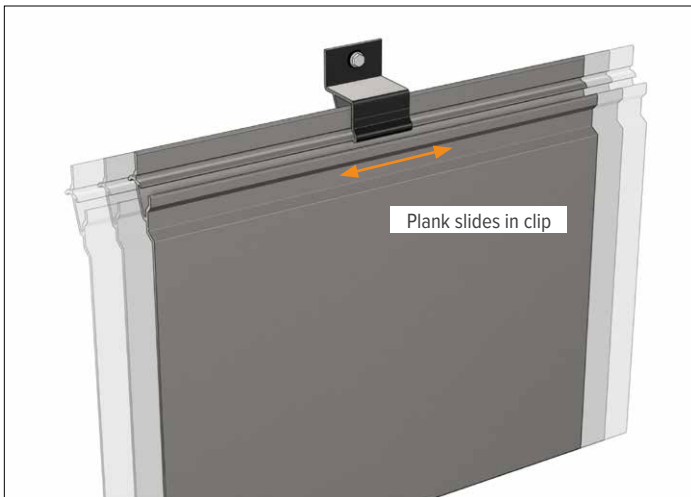


Figure 9.1

NOTE: Some other systems have expansion clips but they fail to allow the Plank to move freely so the same warping occurs.

Traditional plank systems bind the plank at each fastener point trapping the plank and forcing it to expand out from the wall causing a wavy warped exterior appearance.
(Figure 9.2 a & b)

Rainscreen: The clip holds the Plank off the wall to create a built in rainscreen without the need for addition furring strips.

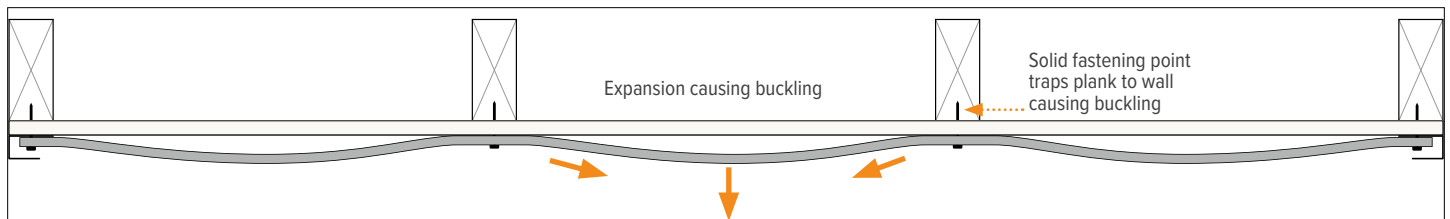
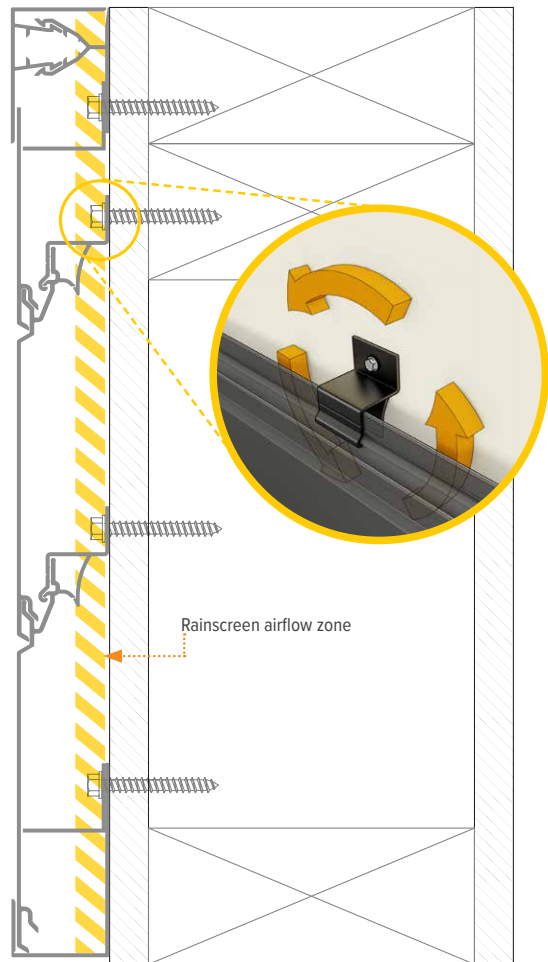


Figure 9.2 a

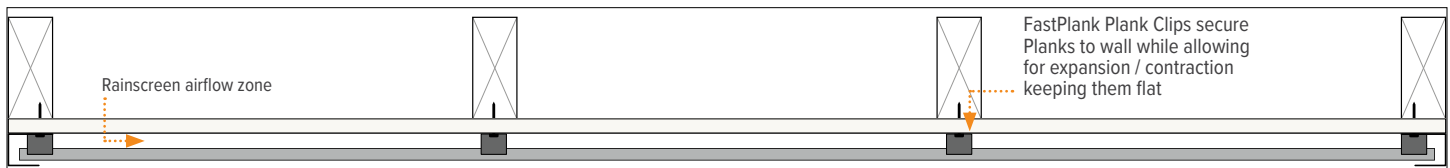


Figure 9.2 b

Wall Preparation

Follow local building codes for all primary flashing details before starting FastPlank install.

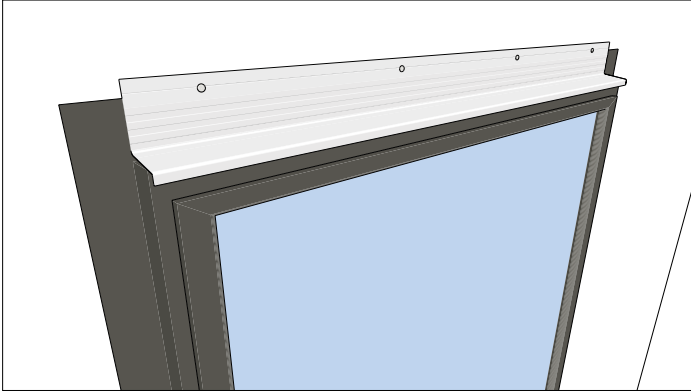


Figure 10.1

Ensure the proper air and water barrier (AWB) has been installed as per your local building code and project specifications. (Figure 10.2)

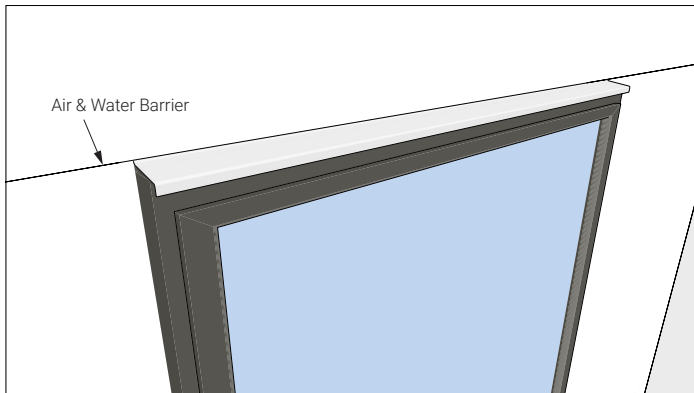


Figure 10.2

Identify your substrate material:

- Direct to wood substrate
- Wood furring
- Metal furring (hat track / girts)
- Plastic furring strips

Note:

If you have questions about your substrate material or alternative substrate fastening scenario – please contact our Installation Support Team at 1-877-973-8746

Using Furring Strips

When installing two piece trim profile assemblies on top of furring strips, a continuous furring strip is required to ensure proper engagement of the trims. (Figure 10.3)

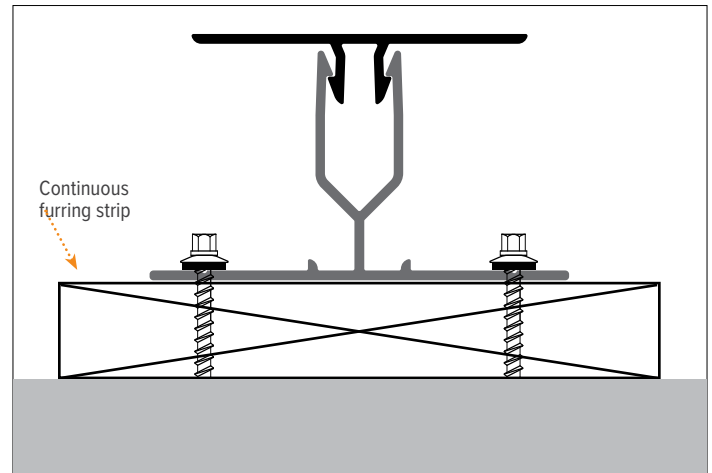


Figure 10.3

Expansion & Contraction Requirements

All planks need to have a gap between the end of the plank and the wall of the trim (Figure 9.1). To determine the amount of total gap needed, use the chart on the right by cross referencing the **Plank Length** and the **Ambient Temperature at the Time of Install**. To cut a plank measure the space between the trims and reduce the measurement by the total gap then install the plank centered between the trims so that the total gap is split equally at each end.

Plank Length	Ambient Temperature at Time of Install		
	-10°C (14°F)	10°C (50°F)	30°C (86°F)
Maximum Measurement			
16'	-10mm (-3/8")	-8mm (-5/16")	-6mm (-1/4")
32'*	-20mm (-3/4")	-16mm (-5/8")	-12mm (-1/2")

Note: Planks come in 16' length and can be joined together with a Plank Connector for a maximum length of 32'



Example:

Plank Length	Ambient Temperature at Time of Install		
	-10°C (14°F)	10°C (50°F)	30°C (86°F)
Maximum Measurement			
16'	-10mm (-3/8")	-8mm (-5/16")	-6mm (-1/4")
32'	-20mm (-3/4")	-16mm (-5/8")	-12mm (-1/2")

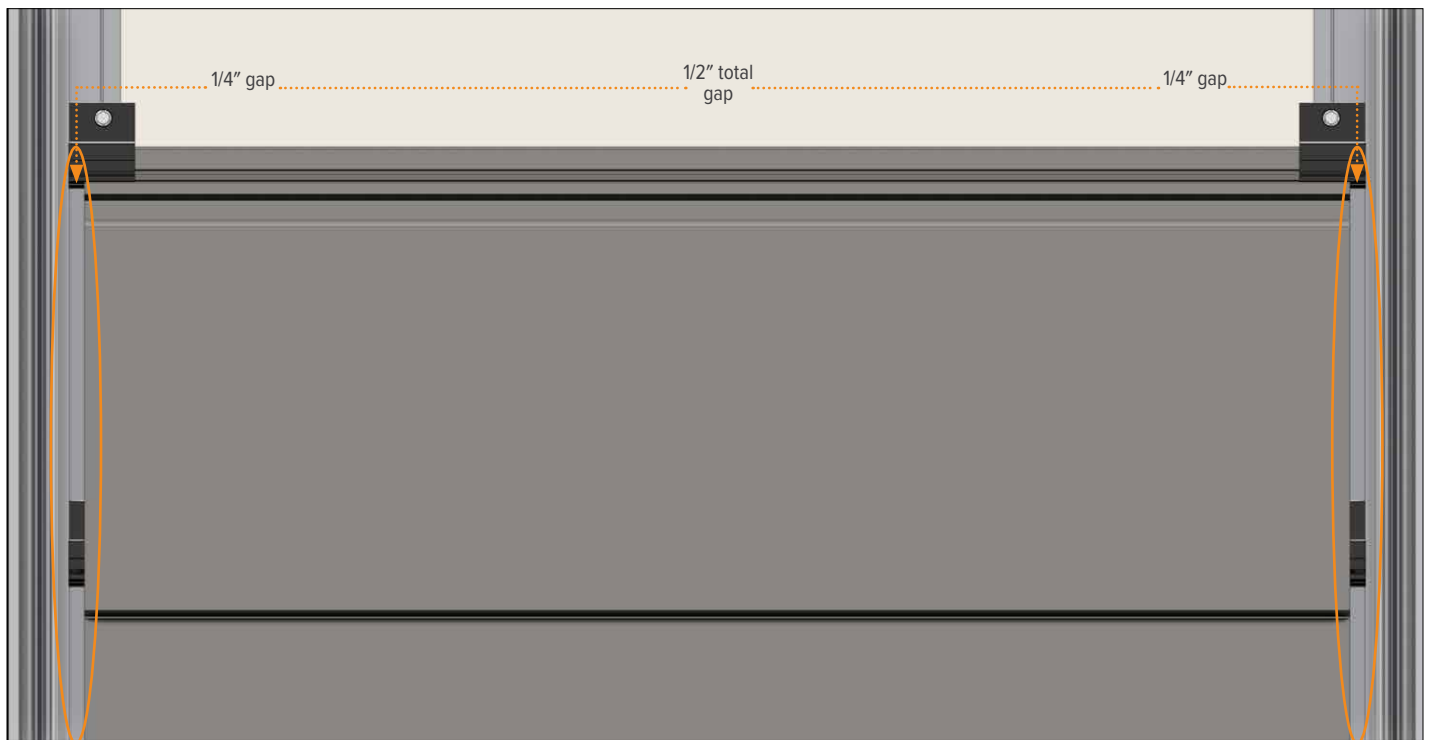


Figure 11.1



IMPORTANT

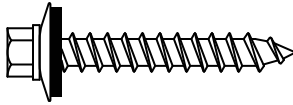
Failure to properly allow for contraction and expansion in your field cuts may cause buckling and void the product warranty. (Figure 11.1)

Fastener Info

Substrate Type

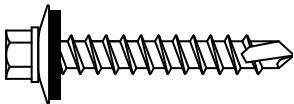
Wood

Use system fastener 1-1/2" WS112 FastPlank screw



Metal

Use system fastener 1-1/2" MS112 or 3/4" MS34 FastPlank screw



Where to place fasteners

Each trim has a fastener line to place fasteners along (Figure 12.1)

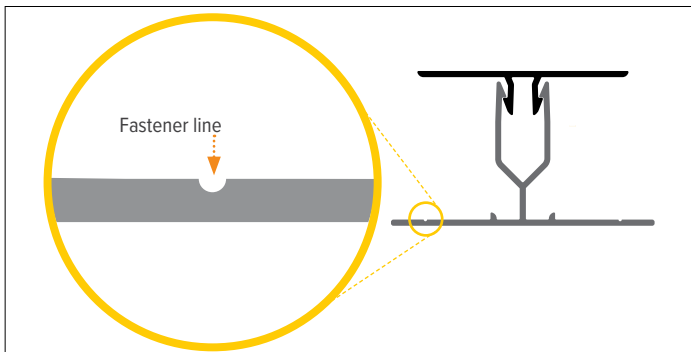


Figure 12.1

Do Not use an impact drill to fasten to steel studs. This can strip the screws causing them to no longer hold the plank in place.

At the starter J and top termination two piece J place fasteners through Plank Backers into the fastener line at 16" o.c. and no further than 2" from the ends. (Figure 12.2 a & b)

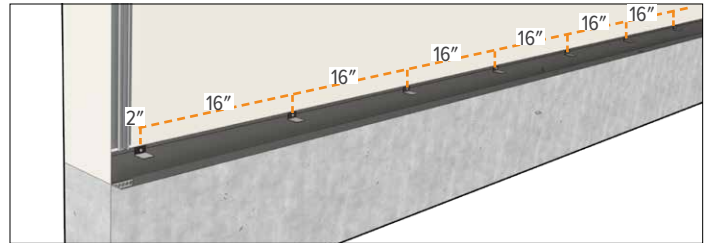


Figure 12.2 a

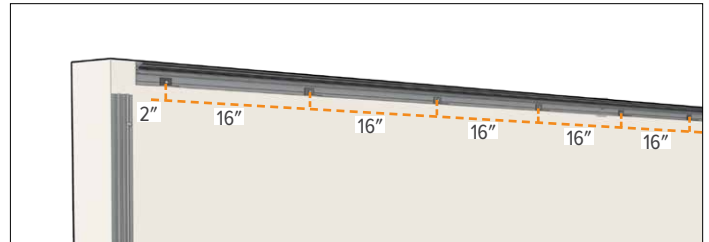


Figure 12.2 b

For general vertical trim install apply fasteners along the fastener line at 32" and no further than 2" from the ends. (Figure 12.3)

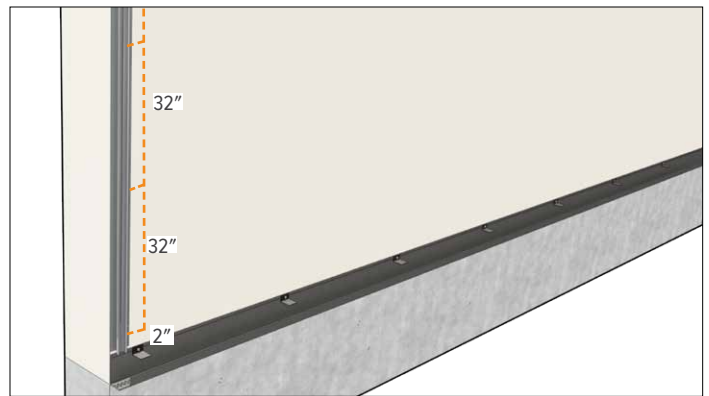


Figure 12.3

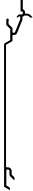


ATTENTION:

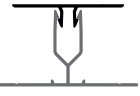
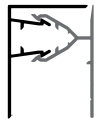
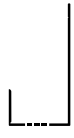
Refer to your local building codes and project specifications for AWB and primary flashing detail.

Profile Legend

Planks Length: 16'

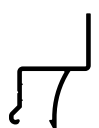
P46V  V-Notch® 6" Plank QTY per bundle: 6	P44V  V-Notch® 4" Plank QTY per bundle: 10	P47V  V-Notch® 4" Perforated Soffit Plank QTY per bundle: 10 Net Free Air Space 7.7 in ² /lin ft 163.3 cm ² /lin m
---	--	---

Trims Length: 12'

P10  Inside/Outside Corner QTY Per Bundle: 5	P12  2-Piece Intermediate Trim QTY Per Bundle: 10	P11  2-Piece J Trim QTY Per Bundle: 10	P13  General J Trim QTY Per Bundle: 10	P41  Perforated Starter J QTY Per Bundle: 10
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Clips & Connectors

Accessories

P22  Plank Clip QTY Per Bag: 100	P23  Plank Connector QTY Per Bag: 50	P30  Plank Backer QTY Per Bag: 50	MS34  3/4" Metal Screw QTY Per Bag: 250	MS112  1-1/2" Metal Screw QTY Per Bag: 250	WS112  1-1/2" Wood Screw QTY Per Bag: 250
--	--	---	---	---	---



Basic Installation Process



Figure 15.1 - A complete wall

Basic Install Process

1. After completing the AWB and primary flashings, install the Perforated Starter J Trim on top of the AWB leveling it at the cladding start point. (Figure 16.1)

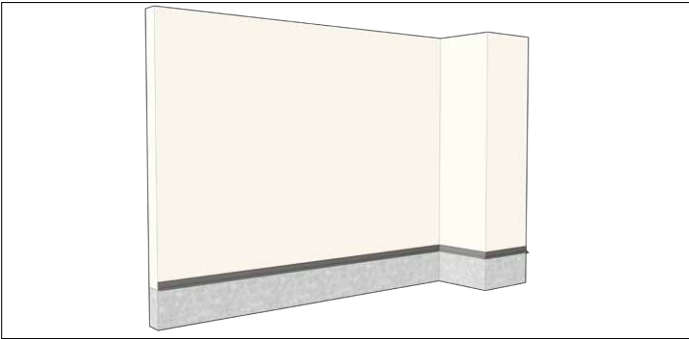


Figure 16.1

2. Miter at inside and outside corners. (Figure 16.2)

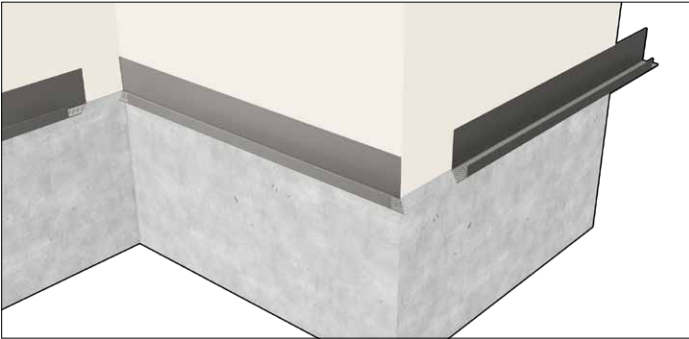


Figure 16.2

3. Secure the Perforated Starter J by placing fasteners through the Plank Backers into the Starter J fastener line at 16" o.c. and no further than 2" from the ends. (Figure 16.3)

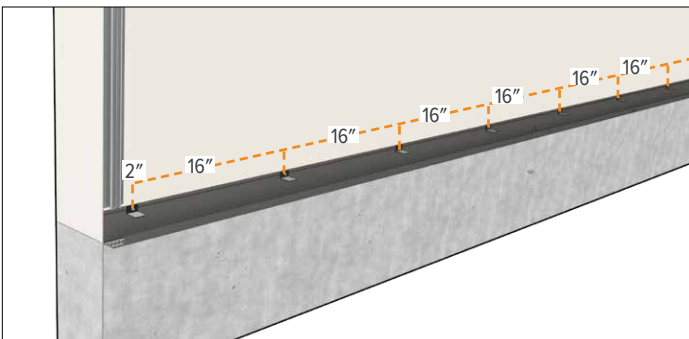


Figure 16.3

4. Notch the face of the Perforated Starter Track 1" when a two piece Inside/Outside Corner or two piece J Trim intersects. (Figure 16.4 a & b)

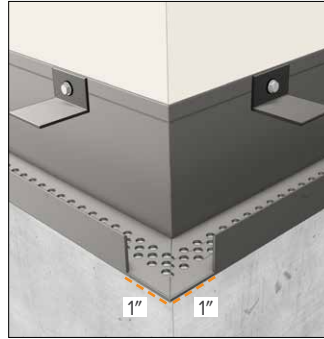


Figure 16.4 a

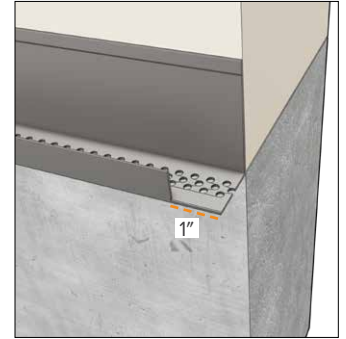


Figure 16.4 b

5. Using tin snips, cut the upward facing tab down to the perforated face of the trim. Grip the tab with pliers and bend downwards to snap off and remove. Notching is necessary to allow for top cap installation later in the process. (Figure 16.5 a & b)

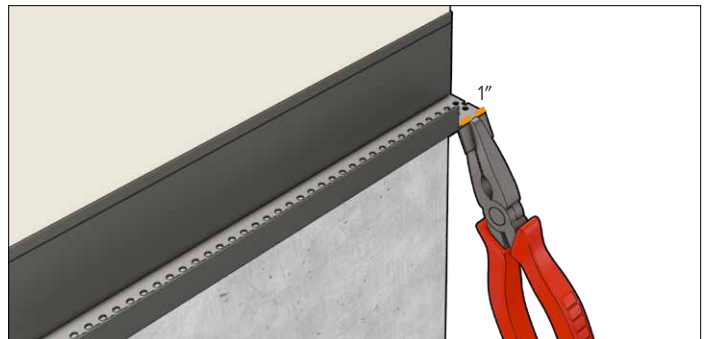


Figure 16.5 a

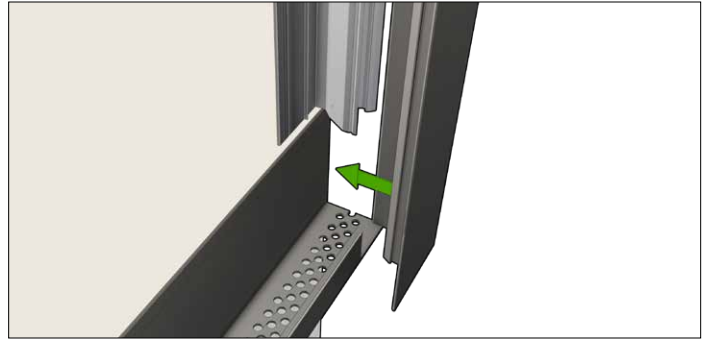


Figure 16.5 b

Basic Install Process (Cont.)

6. To install an Inside Corner, take the male corner trim and set the bottom at 1/4" above the perforated starter track's fastening flange. At the top of the wall leave two inches back from the cladding's end point and fasten. (Figure 17.1 a & b)

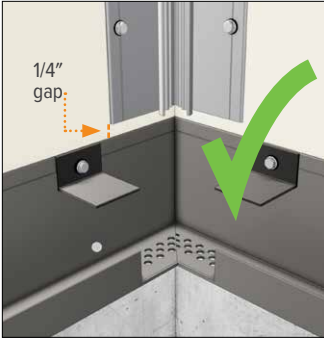


Figure 17.1 a

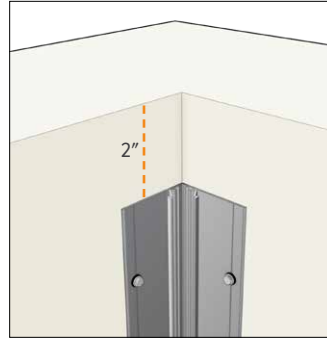


Figure 17.1 b

9. To install a two piece J at a vertical termination, take the two piece J back plate and set the bottom at 1/4" above the perforated starter J's fastening flange. At the top of the wall leave 2" back from the cladding's end point and fasten. (Figure 17.4 a & b)



Figure 17.4 a



Figure 17.4 b

7. Do not overlap trims. (Figure 17.2)

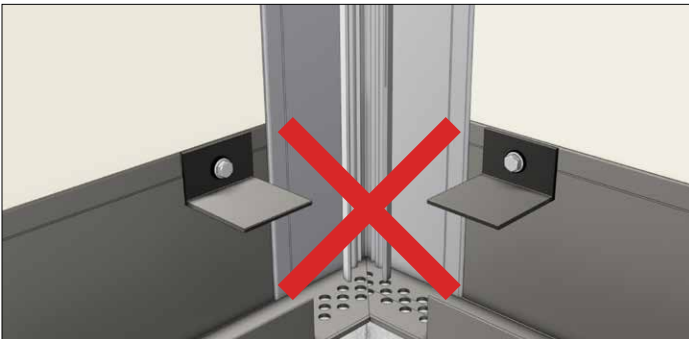


Figure 17.2

10. Do not overlap trims. (Figure 17.5)



Figure 17.5

8. To install an Outside Corner, use a female corner trim and repeat steps for Inside Corner installation as noted previously. (Figure 17.3)

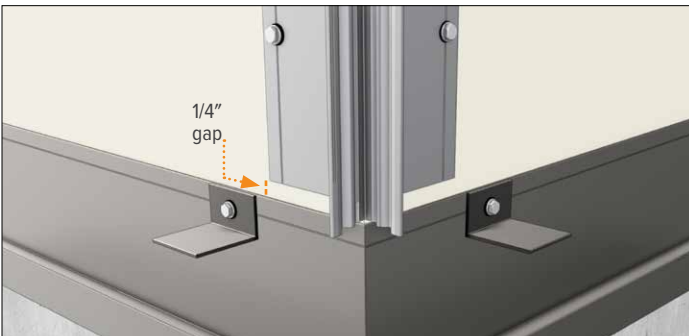


Figure 17.3

11. At the top of the wall run a two piece J back plate horizontally keeping it back 2" at ends and secure it by placing fasteners through the Plank Backers into the starter J fastener line at 16" o.c. and no further than 2" from the ends. The backers will hold the top edge of the last Plank flush to the main surface later in the process. (Figure 17.6)

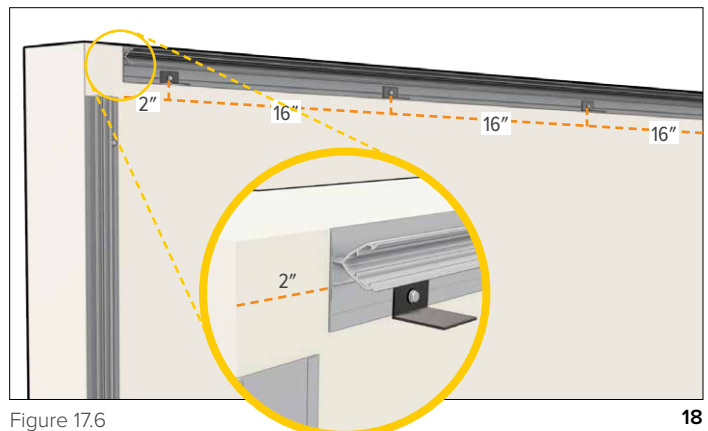


Figure 17.6

Basic Install Process (Cont.)

12. To install a two piece mid-wall vertical, take the back plate and set the bottom at 1/4" above the perforated starter J's fastening flange. At the top of the wall leave two inches back from the cladding's end point and fasten. (Figure 18.1 a & b)



Figure 18.1 a

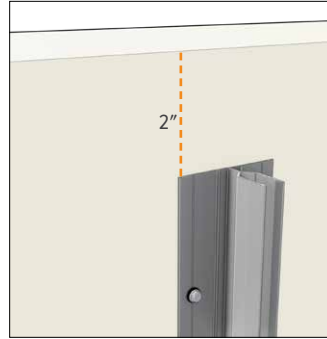


Figure 18.1 b

13. Do not overlap trims. (Figure 18.2)



Figure 18.2

14. The two piece mid-wall vertical is used to allow room for Plank expansion when the maximum Plank length exceeds 32'. (Mid-wall vertical allows for Plank expansion) (**WARNING** max plank length is 32'). (Figure 18.3)

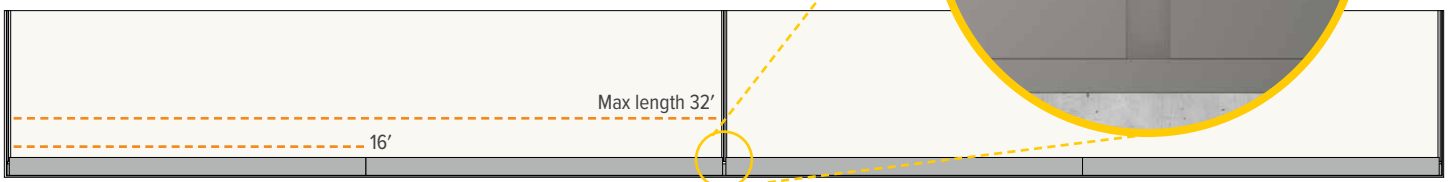


Figure 18.3

15. They are also used at shorter distances to create different design aesthetics (mid-wall vertical is also used to create different design aesthetics). (Figure 18.4)

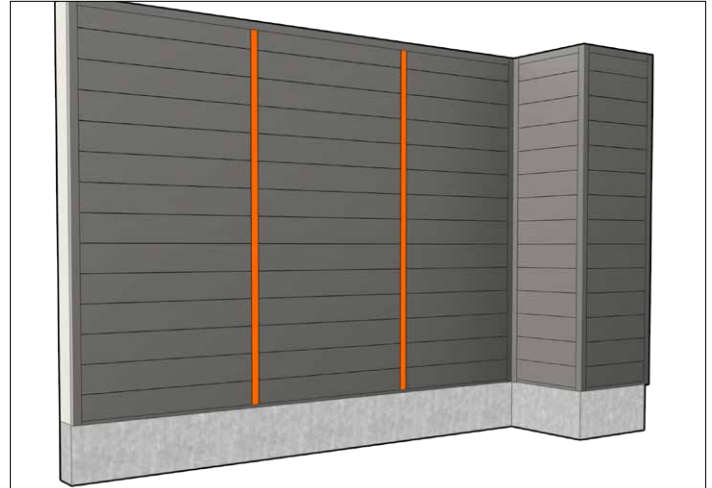


Figure 18.4

Basic Install Process (Cont.)

16. All Planks need to have a gap between the end of the Plank and the wall of the back plate. To determine the amount of total gap needed use the chart below by cross referencing the **Plank Length** and the **Ambient Temperature at the Time of Install**. To cut a Plank measure the space between the trims and reduce the measurement by the total gap then install the Plank centered between the trims so that the total gap is split equally at each end. See chart below. (Figure 19.1 - See Expansion & Contraction Requirements)

Plank Length	Ambient Temperature at Time of Install		
	-10°C (14°F)	10°C (50°F)	30°C (86°F)
Maximum Measurement			
16'	-10mm (-3/8")	-8mm (-5/16")	-6mm (-1/4")
32'*	-20mm (-3/4")	-16mm (-5/8")	-12mm (-1/2")

Figure 19.1

Note: Planks come in 16' length and can be joined together with a Plank Connector for a maximum length of 32'

17. At inside corners only, align Planks to the notch in the starter J, do not reference the expansion chart for inside corners. Aligning the Plank at the notch allows for expansion in any scenario, and provides space for the top cap to be installed later in the process. (Figure 19.2)

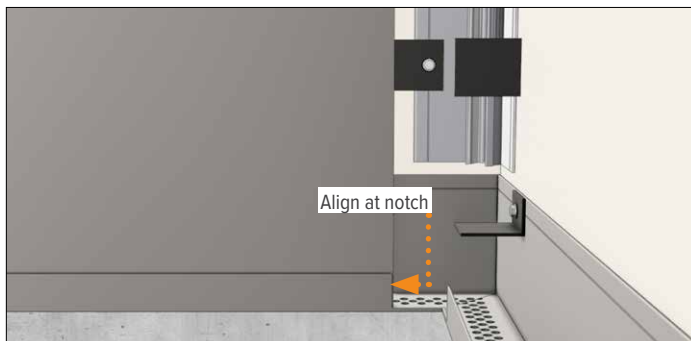


Figure 19.2

18. Insert the bottom edge of the Plank into the perforated Starter J, resting it against the Plank Backers. The Plank Backers hold the bottom edge of the first Plank for a flush appearance. (Figure 19.3 a & b)



Figure 19.3 a

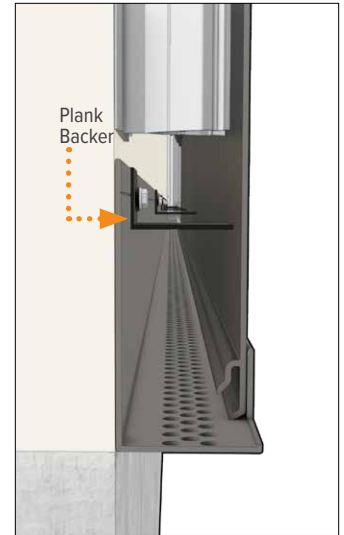


Figure 19.3 b

19. When joining two Planks together apply a Plank Connector by centering it on the joint and secure with the provided fasteners (must use connector on joints). (Figure 19.4 a & b)

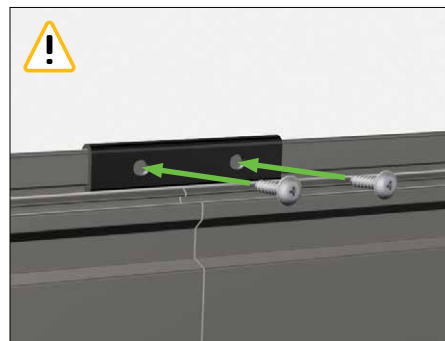


Figure 19.4 a

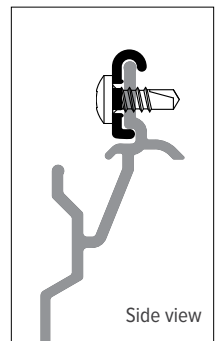


Figure 19.4 b



IMPORTANT

A P23 is necessary to join two planks together, butted end to end. (Figure 19.4 a)

Basic Install Process (Cont.)

20. To ensure variation of the woodgrain pattern, select Planks from different packages of your order to be installed adjacent to each other. Do not use identical patterns on successive rows. (Figure 20.1)

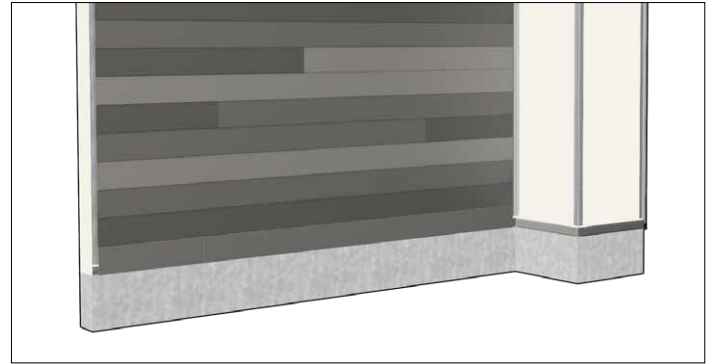


Figure 20.1

21. Snap and slide the Plank Clips along the top edge of the Plank fastening at 32" o.c. (Figure 20.2)

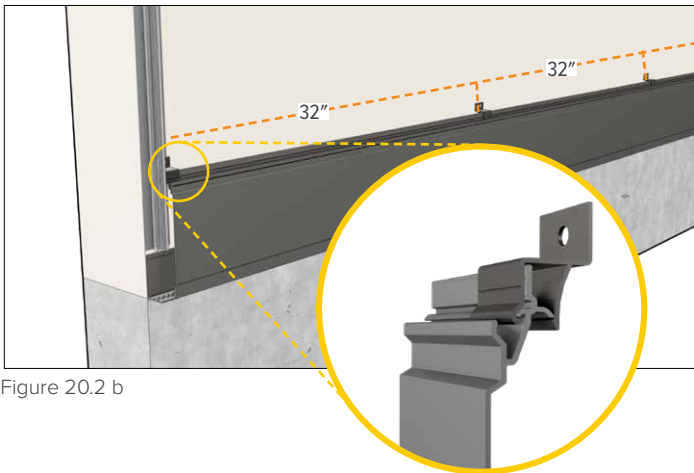


Figure 20.2 b

22. Stager the Plank Clips from row to row so they do not line up. (Figure 20.3)

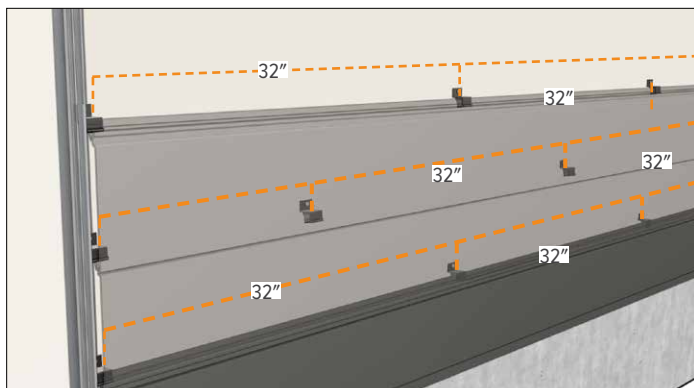


Figure 20.3

23. Check each row is level as you go and make small adjustments as needed. (Figure 20.4)



Figure 20.4

24. At each end of the Plank fasten a Plank Clip into the fastener line of the intersecting trim except with Inside Corners. (Figure 20.5)

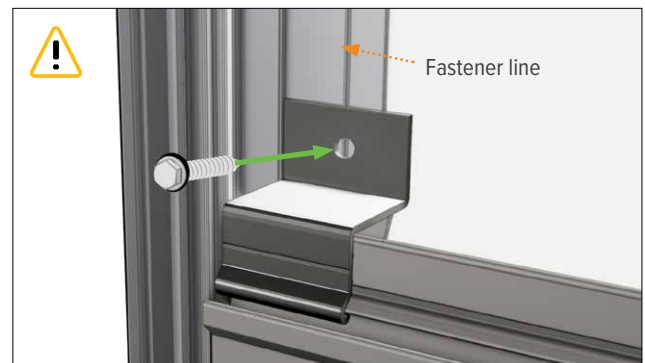


Figure 20.5



IMPORTANT

Clips must be fastened onto the fastener line at both ends of the Plank except with inside corners. (Figure 20.5)

Proper Installation of Fastener Clips

Clips should be tightened **FIRMLY** against the **OUTSIDE** trims but fastening clips across the middle of the plank should **NOT** be tightened against the surface to ensure planks appear even and straight (Figure 1).

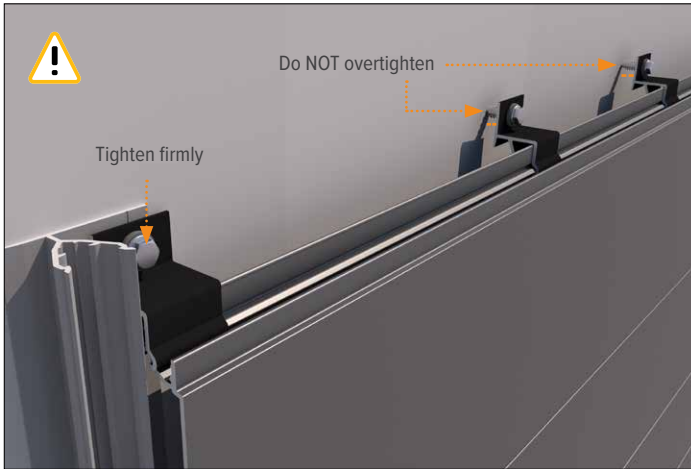
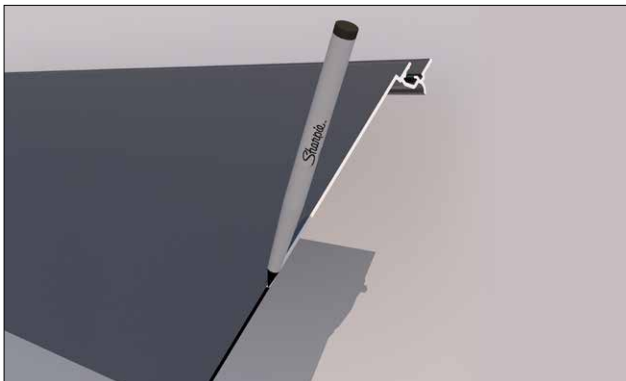


Figure 1

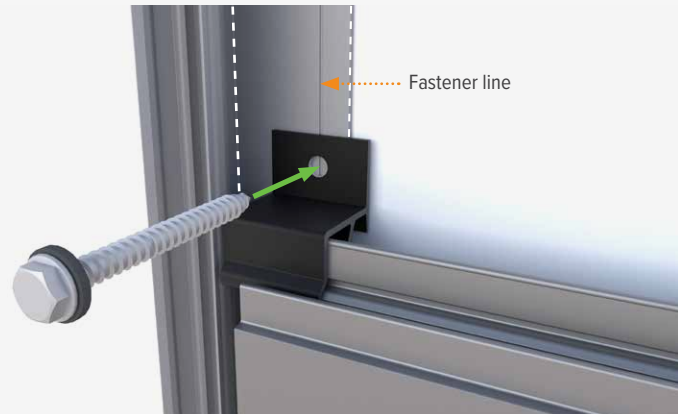


Before installing planks that will form a butt joint, it is recommended to use a marker along both adjoining edges. This ensures plank edges do not reflect light for a seamless appearance.



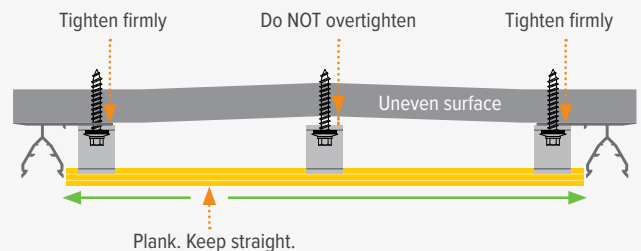
IMPORTANT

Clips **MUST** be fastened onto the fastener line at both ends of the Plank except with inside corners.



IMPORTANT

DO NOT overtighten the screws. Overtightening the clips against an uneven surface may result in bending or deforming the face of the plank.



Basic Install Process (Cont.)

25. For Inside Corners only, apply a Plank Backer behind each Plank in a vertical direction facing away from the inside corner, fastening it through the fastener line. Place the backer below the top edge of each Plank so it comes into contact with the back side of the main surface of the Plank. (Figure 21.1)

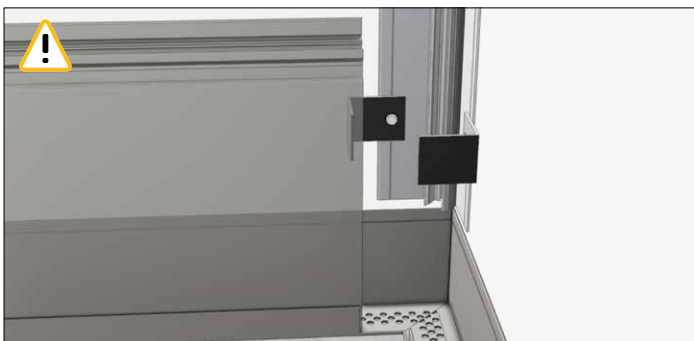


Figure 21.1

26. To install the last Plank measure the space between the groove in the Plank and the J Trims back plate and cut the last Plank one eighth of an inch less and install. The top edge of the Plank should rest against the Plank Backers previously installed. (Figure 21.2)



Figure 21.2

27. The last Plank at the top of the wall will be held in place by the top cap, no Plank Clips are necessary. (Figure 21.3)



Figure 21.3

28. Install top caps by setting it into the receiving engagement of the back plate. (Figure 21.4)



Figure 21.4



IMPORTANT

Must fasten backer along fastener line for inside corners, must have a backer at every inside corner Plank. (Figure 21.1)

Basic Install Process (Cont.)

29. Connect the top cap using a HammerBlock® and rubber mallet, by striking the HammerBlock® to engage the trim. (Figure 22.1)



Figure 22.1

• **Second is the horizontal two piece J Trim at the top of a wall.** Align each end of the trim with the edge of the last Plank. Run continuously over top of any mid-field vertical top cap intersection. (Figure 22.2. b)

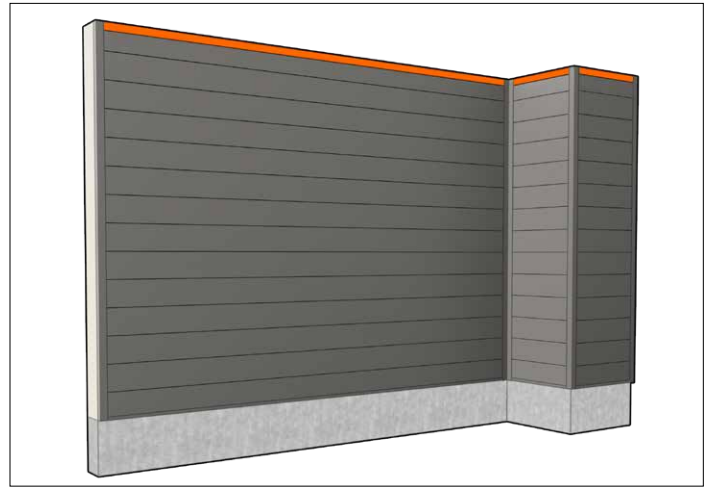


Figure 22.2 b

30. In a general install the order of top cap installation is as follows:

• **First is the mid-field vertical.** Install from the cladding's start point to the top edge of the last Plank. (Figure 22.2 a)

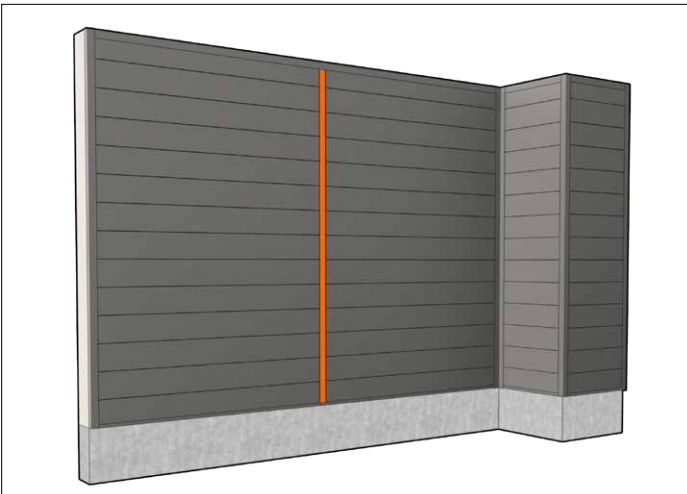


Figure 22.2 a

• **Last is the vertical Outside or Inside Corner and two piece J Trim.** Install from the cladding start point to the cladding end point. (Figure 22.2 c)

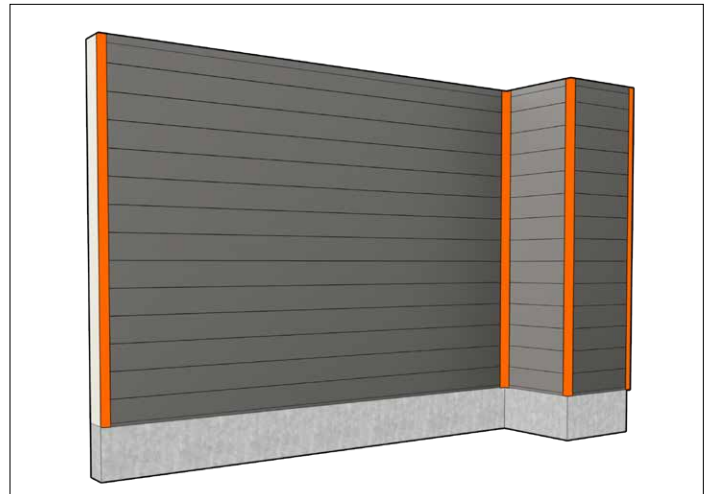


Figure 22.2 c



Basic Window Trim & Plank Install Process

INSTALLATION OPTION 1

Using TWO-PIECE J-Trims

The following instructions demonstrate proper installation for window and door trim, using a typical design layout.

When installing trim around a door, follow instructions for jambs and head details only.



1. Ensure flashing & air/water barrier are completed to meet local building code (Figure 1).



Figure 1

2. Attach P11 back plates cut to 45° around the window. For the P11 sill and head of window, add P30 plank backer 2" from ends and 16" center (Figure 2).

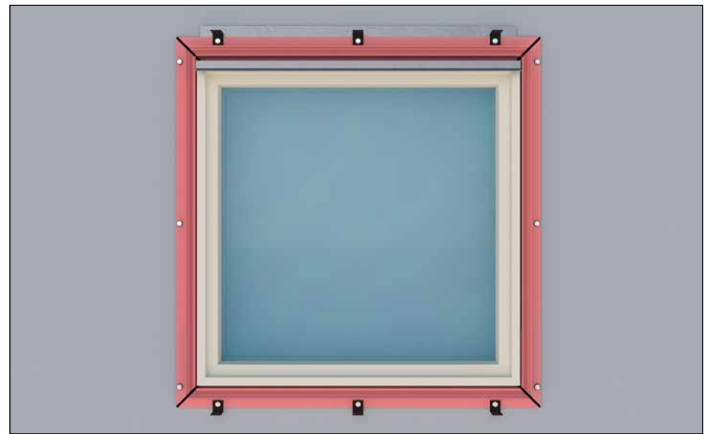


Figure 2

Basic Window Trim & Plank Install Process (Cont.)

3. Notch P46V or P44V plank to go around the sill of window (Figure 3.1), ensuring a 1/8" gap is between the horizontal notched plank and horizontal P11 back plate (Figure 3.2).



Figure 3.1

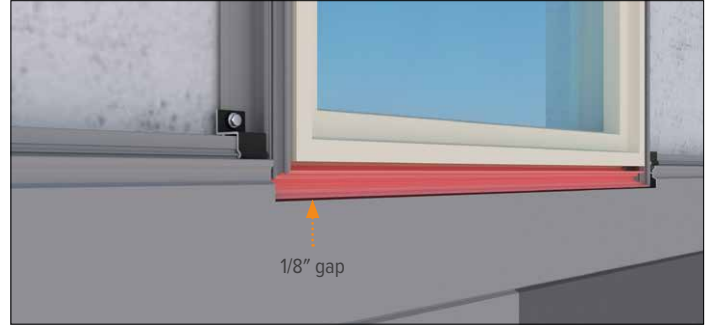


Figure 3.2

4. Install planks on either side of the jamb of the window, at head of window (Figure 4.1). Notch plank leaving 1/8" gap between the plank and the horizontal P11 back plate (Figure 4.2).

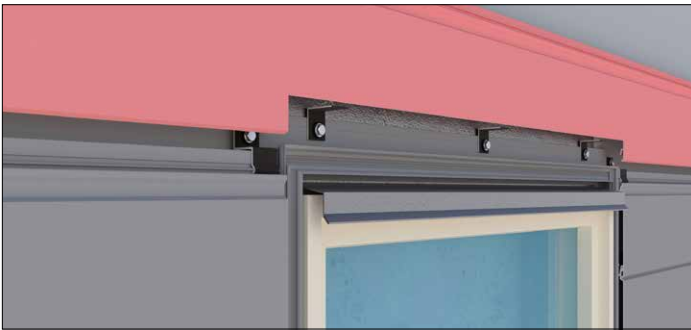


Figure 4.1

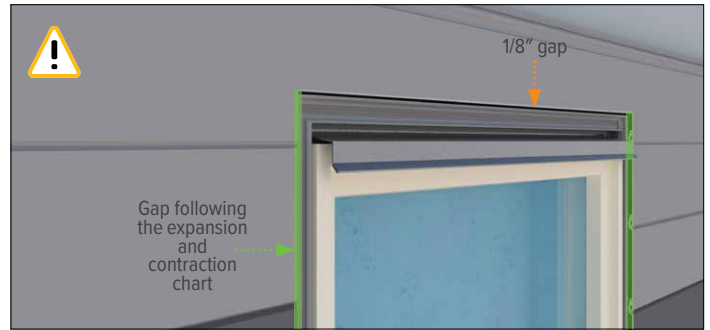


Figure 4.2



IMPORTANT

Make sure gap between the plank and vertical P11 back plate is following the expansion and contraction chart found on pg. 11 of the Installation Guide (Figure 4.2).

5. Measure and install P11 top caps cut to 45° around window (Figure 5.1 and 5.2).



Figure 5.1



Figure 5.2

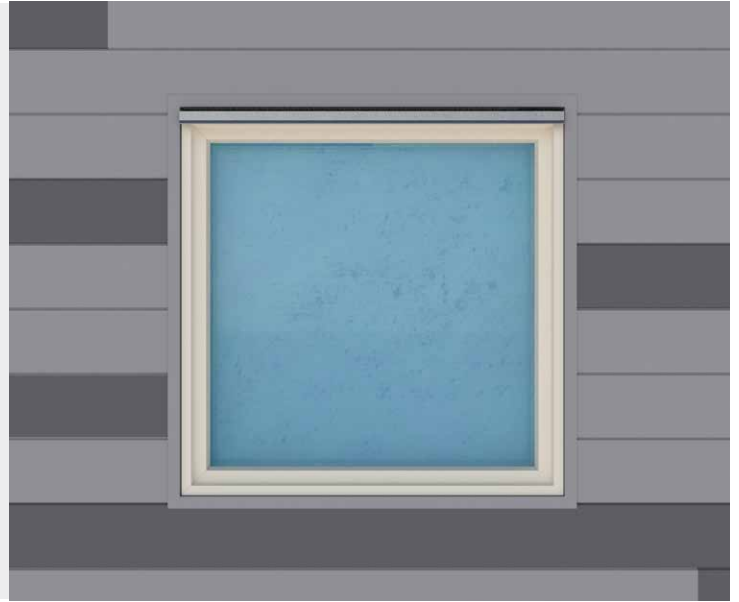
Basic Window Trim & Plank Install Process

INSTALLATION OPTION 2

Using ONE-PIECE J-Trims

The following instructions demonstrate proper installation for window and door trim, using a typical design layout.

When installing trim around a door, follow instructions for jambs and head details only.



1. Ensure flashing & air/water barrier are completed to meet local building code (Figure 1).

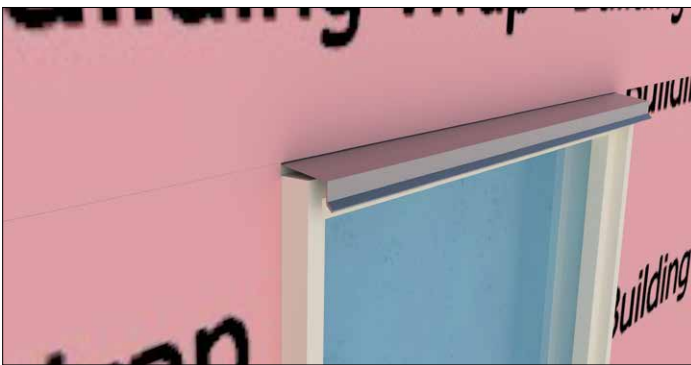


Figure 1

2. Cut and install P13 around the sill and jambs of the window and P41 for the head of the window. Miter at a 45° angle on all 4 corners of the window. On the head and sill, add P30 plank backers 2" from ends and 16" on center (Figure 2).

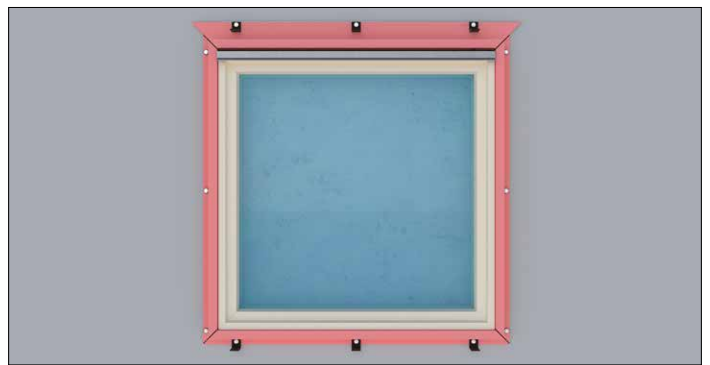


Figure 2

Basic Window Trim & Plank Install Process (Cont.)

3. Notch the P46V or P44V to slide into the installed P13s under the sill of the window (Figure 3.1 and 3.2).

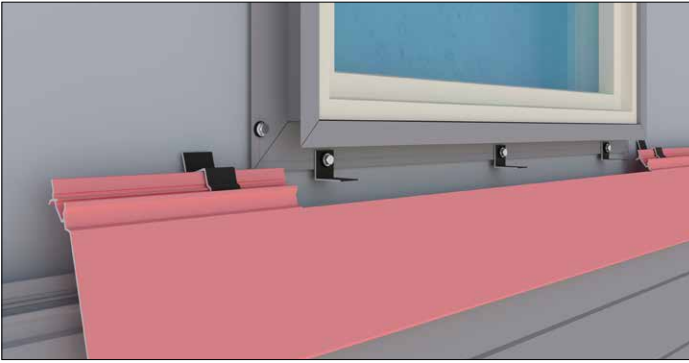


Figure 3.1



Figure 3.2

4. Install planks on either side of the jamb of the window (Figure 4.1). At the window head, notch the bottom of the of the plank to slide into the P41 (Figure 4.2 and 4.3).



Figure 4.1



Figure 4.2

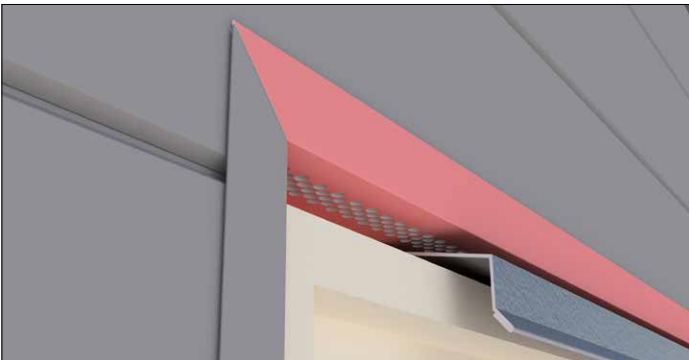


Figure 4.3



Figure 4.4

Product Warranty

The FastPlank® V-NOTCH™ System 50-Year Limited Warranty is extended to original purchasers of the FastPlank® V-NOTCH™ System. This Warranty is for the benefit of the original property owner who purchased the product and is not transferable.

FastPlank® V-NOTCH™ System, when properly installed and maintained according to the published guidelines the product is warranted for a period of fifty (50) years from the date of installation from physical defects.

This FASTPLANK V-NOTCH™ Limited Warranty provides the following coverage:

- a) splitting or cracking, or sustained excessive deformation of the product under normal conditions of use; and,
- b) to be free of any buckling of the product itself that is not associated with the substrate and/or structure to which the FastPlank V-NOTCH™ System is attached. For the purpose of this warranty, buckling shall be defined as warping of the product(s) exceeding one eighth of an inch out of plane per linear foot.

If FastPlank® Systems Inc., after inspection and verification, determines that the product failed under the terms of this limited warranty, FastPlank® Systems Inc. will provide, at its option, replacement parts or components to the dealer specified by the original purchaser at no cost. FastPlank® Systems Inc. will not be responsible for installation or labor costs either prior to or during remediation.

What is not covered:

- Damage caused by improper installation, use, application or maintenance.
- Damage to the system caused by handling, shipping, processing, storage, installation and/or improper cleaning.
- Damage from contact with harmful chemicals, fumes, or vapors.
- Normal weathering, chalking, fading, atmospheric pollutants or mildew build-up.
- Damage from settlement, shrinkage, or distortion of the structure.
- Pre-finished or field applied coatings.
- Acts of God, fire and casualty; and

The limited product and finish warranties set forth are the only warranties (whether written or oral) applicable to FastPlank® V-NOTCH™ Systems.

FASTPLANK® SYSTEMS INC MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED AND MAKES NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES STATED WITHIN ARE YOUR SOLE AND EXCLUSIVE REMEDY AND FASTPLANK® SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RELATING TO YOUR PURCHASE OR USE OF FASTPLANK® SYSTEMS INC. PRODUCTS. FASTPLANK® SYSTEMS INC. LIABILITY IN ALL INSTANCES WILL BE LIMITED TO REPLACEMENT OF MATERIAL BASED ON PURCHASE DATE AND WARRANTY CLAIM DATE.

This warranty is applicable in Canada, the United States, the European Union, and Australia. Some states do not allow for the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state, and from country to country.

HOW TO GET HELP IF YOU HAVE A WARRANTY CLAIM

To obtain help with a warranty claim, contact the dealer, distributor or building products supplier where the FastPlank® V-NOTCH™ System were purchased originally. If, after thirty (30) days you have received no response to your concerns, then contact FastPlank® Systems Inc. via email sending your email to warranty@FastPlank.com.

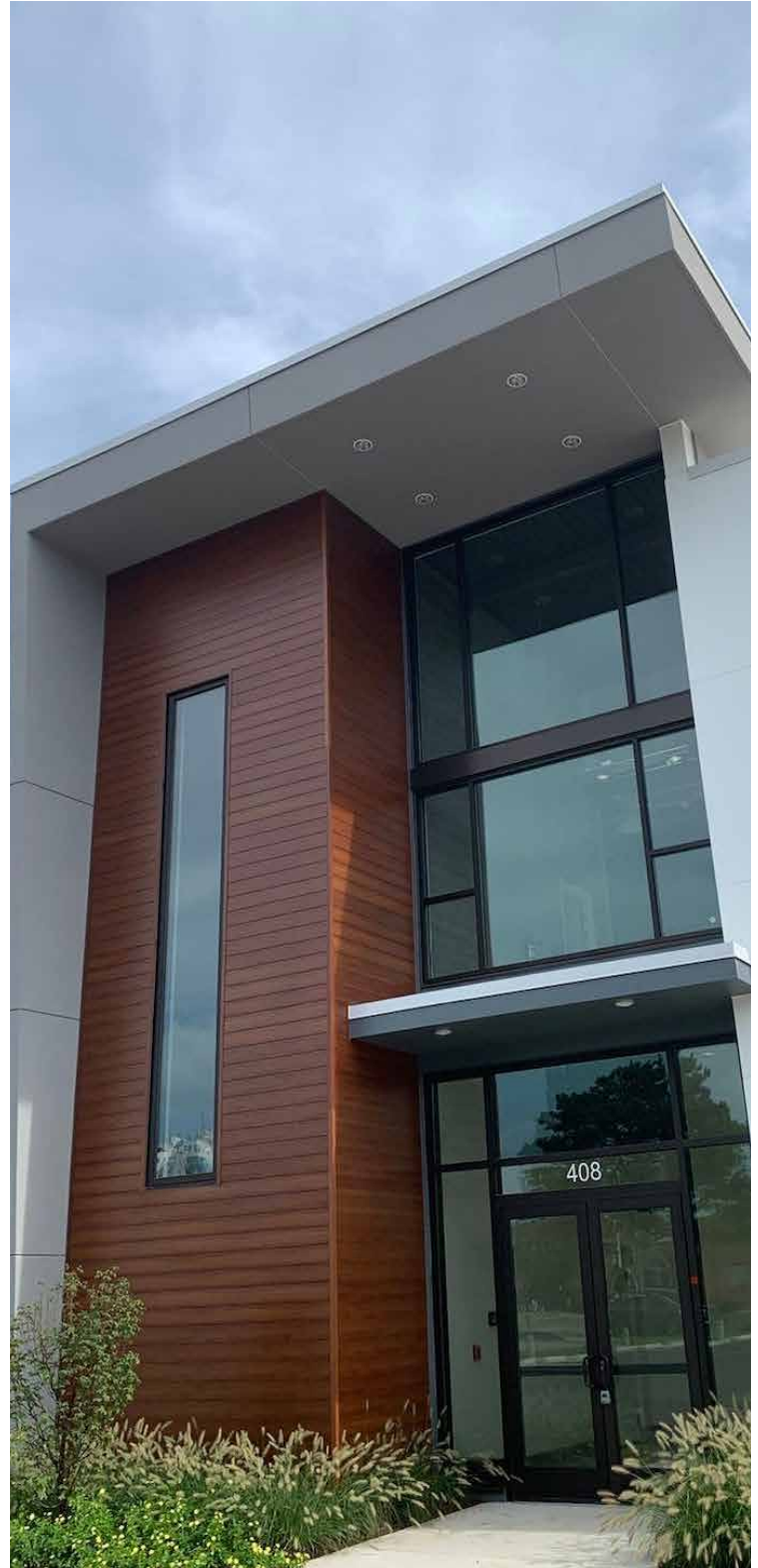
Please include the following documentation:

1. FastPlank® V-NOTCH™ System's, date and place of purchase, and purchase price (proof of purchase required).
2. Describe the problem (photographs are required).
3. Describe any action you have taken, or those persons contacted to correct the problem.
4. Give your name, phone number and address where the product can be inspected.

1-877-973-8746 | warranty@fastplank.com



Contact our Installation
Support Team





Contact us for **Free Estimates & Samples**

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