



QuickPanel[®]
Systems



Submittal **Package**

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- [Project Gallery](#) >
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- [Specifications](#) >
- [Environmental Health Declaration](#) >
- [Health Product Declaration](#) >
- [Installation Guide](#) >

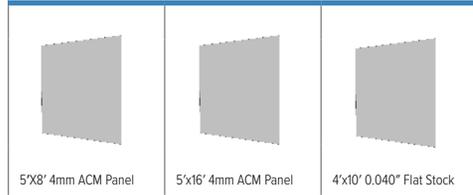
Smart Minds.
Smart Materials.

+1 877 973 8746
info@engagebp.com
engagebp.com/quickpanel

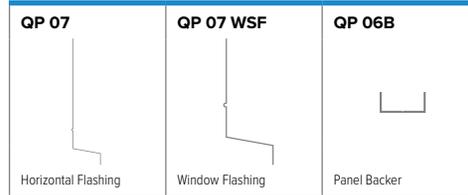
ENGAGE
BUILDING PRODUCTS™



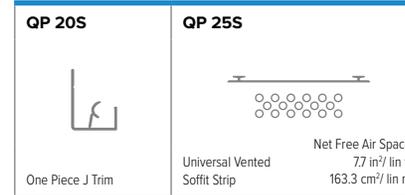
PANELS



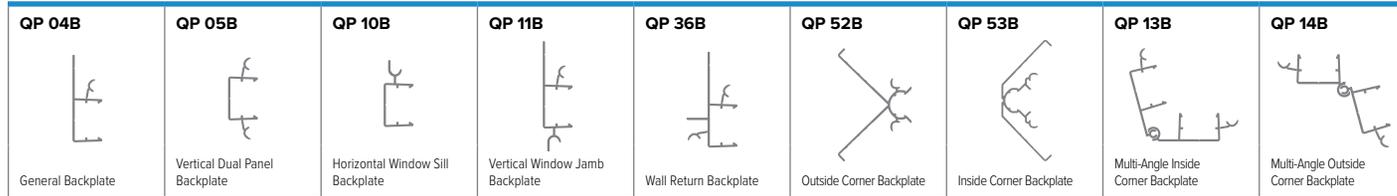
SYSTEM FLASHING & OTHER



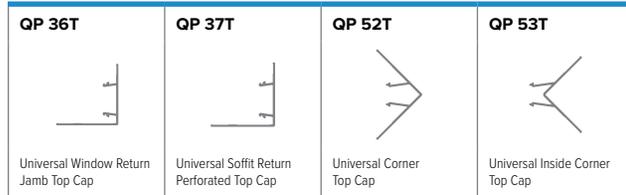
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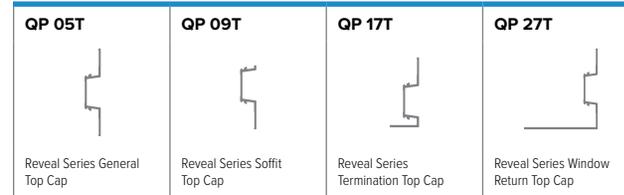
BACKPLATES



COMMON TOP CAPS



REVEAL SERIES TOP CAPS



ABSOLUTE SERIES TOP CAPS

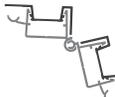
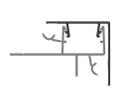


ACCESSORIES



REVEAL SERIES™ ASSEMBLIES Length: 10'

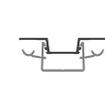
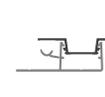
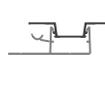
OUTSIDE CORNERS

<p>QP 52B + 52T</p>  <p>Outside Corner Trim</p>	<p>QP 14B + 17T</p>  <p>Multi-Angle Outside Corner Trim</p>	<p>QP 36B + 36T</p>  <p>Vertical Window Return Trim</p>
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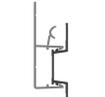
INSIDE CORNERS

<p>QP 53B + 53T</p>  <p>Inside Corner Trim</p>	<p>QP 13B + 09T</p>  <p>Multi-Angle Inside Corner Trim</p>
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VERTICAL TRIMS

<p>QP 05B + 05T</p>  <p>Vertical Main Wall Trim</p>	<p>QP 04B + 17T</p>  <p>Vertical Termination Trim</p>	<p>QP 04B + 27T</p>  <p>Vertical 2" Return Trim</p>
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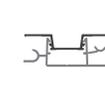
HORIZONTAL TRIMS

<p>QP 04B + 05T</p>  <p>General Horizontal Trim</p>	<p>QP 04B + 09T</p>  <p>Soffit Termination Trim</p>
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SOFFIT TRIM

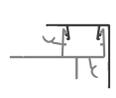
<p>QP 36B + 37T</p>  <p>Perforated Soffit Return Trim</p>

WINDOW TRIMS

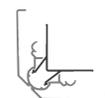
<p>QP 10B + 05T</p>  <p>Horizontal Window Sill Trim</p>	<p>QP 11B + 05T</p>  <p>Vertical Window Jamb Trim</p>
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ABSOLUTE SERIES™ ASSEMBLIES Length: 10'

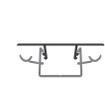
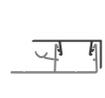
OUTSIDE CORNERS

<p>QP 52B + 52T</p>  <p>Outside Corner Trim</p>	<p>QP 14B + 43T</p>  <p>Multi-Angle Outside Corner Trim</p>	<p>QP 36B + 36T</p>  <p>Vertical Window Return Trim</p>
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INSIDE CORNERS

<p>QP 53B + 53T</p>  <p>Inside Corner Trim</p>	<p>QP 13B + 42T</p>  <p>Multi-Angle Inside Corner Trim</p>
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VERTICAL TRIMS

<p>QP 05B + 41T</p>  <p>Vertical Main Wall Trim</p>	<p>QP 04B + 43T</p>  <p>Vertical Termination Trim</p>
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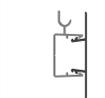
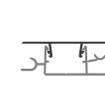
HORIZONTAL TRIMS

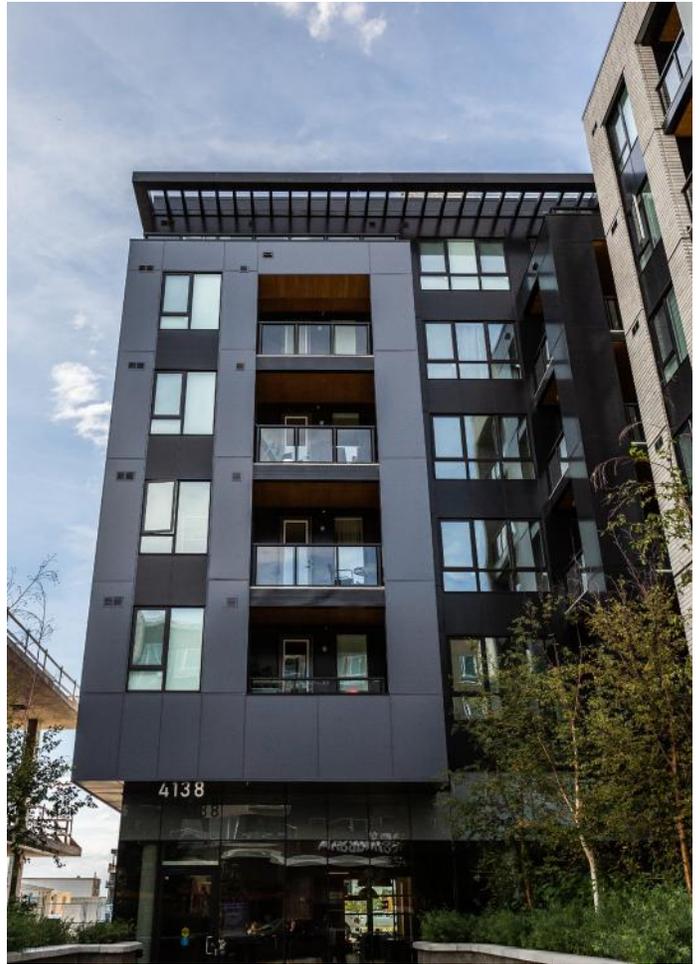
<p>QP 04B + 41T</p>  <p>General Horizontal Trim</p>	<p>QP 04B + 42T</p>  <p>Soffit Termination Trim</p>
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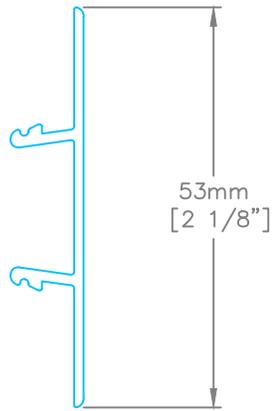
SOFFIT TRIM

<p>QP 36B + 37T</p>  <p>Perforated Soffit Return Trim</p>

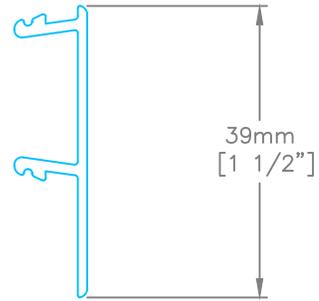
WINDOW TRIMS

<p>QP 10B + 41T</p>  <p>Horizontal Window Sill Trim</p>	<p>QP 11B + 41T</p>  <p>Vertical Window Jamb Trim</p>
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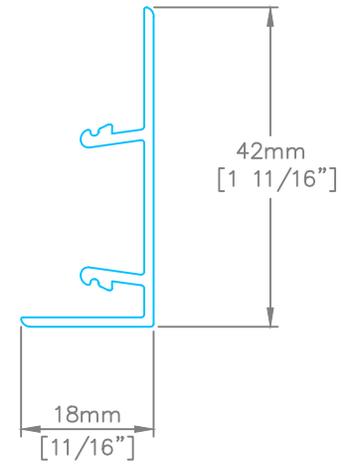




QP 41T



QP 42T

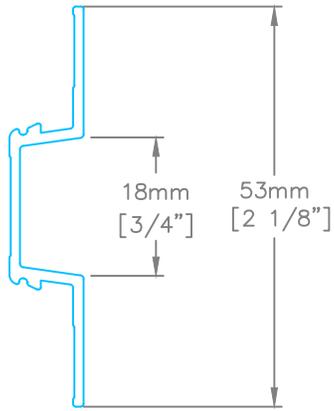


QP 43T

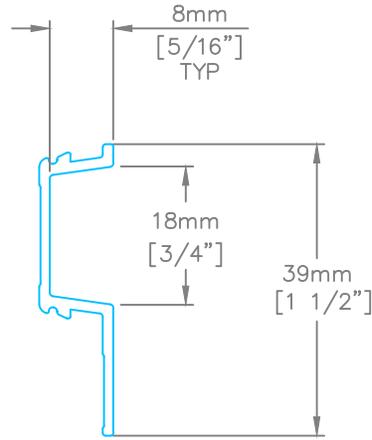
ALL TOP CAPS APPROX. 1.25mm [.050"] ~16 ga

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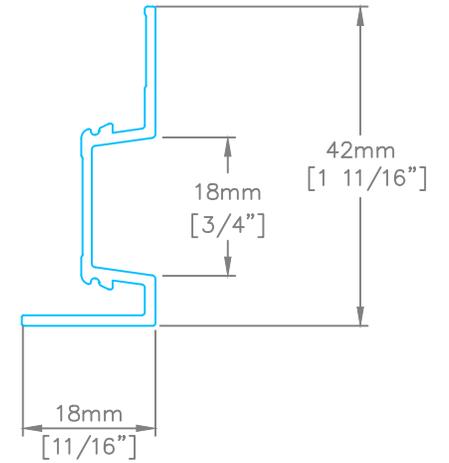
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	DRWN BY	HJ/DDG	



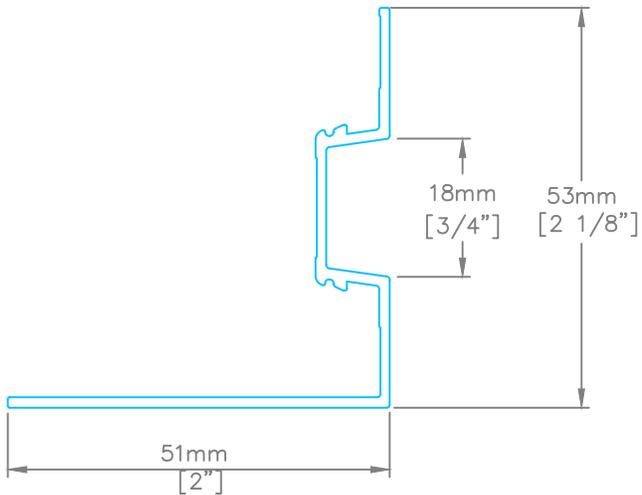
QP 05T



QP 09T



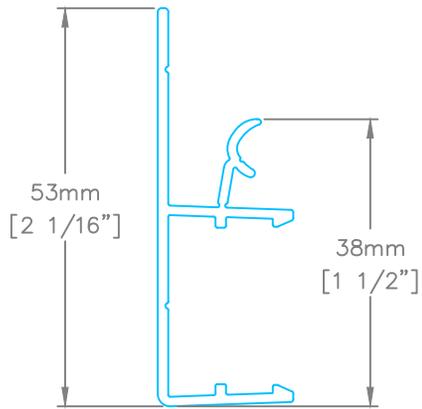
QP 17T



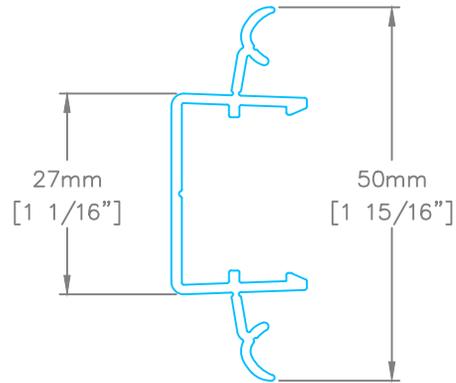
QP 27T

ALL TOP CAPS APPROX. 1.25mm [.050\"] ~16 ga

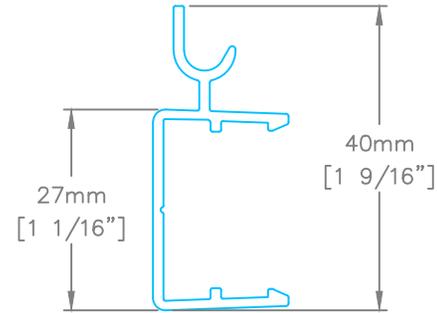
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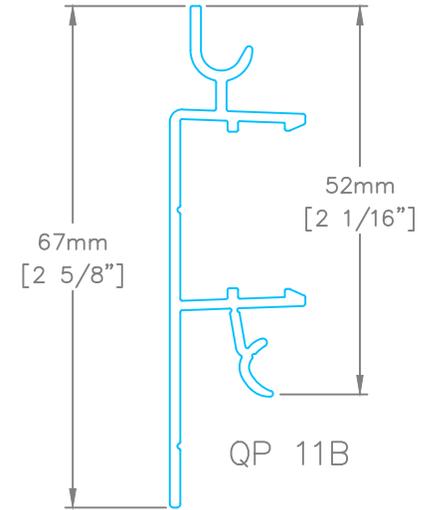
QP 04B



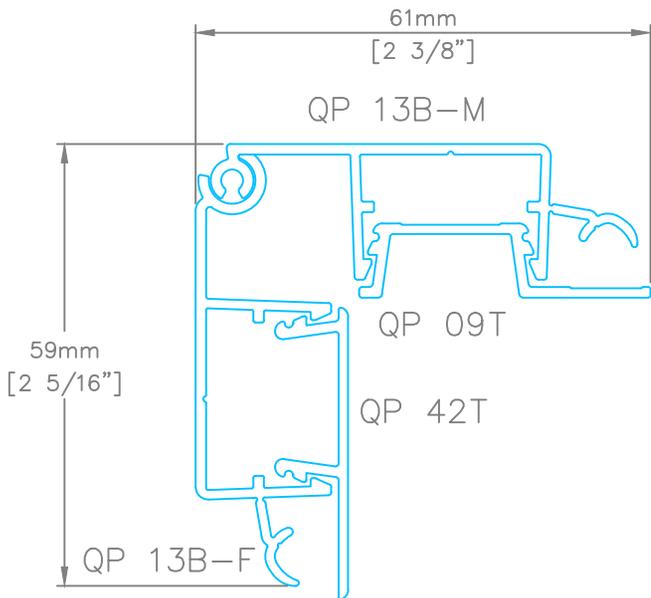
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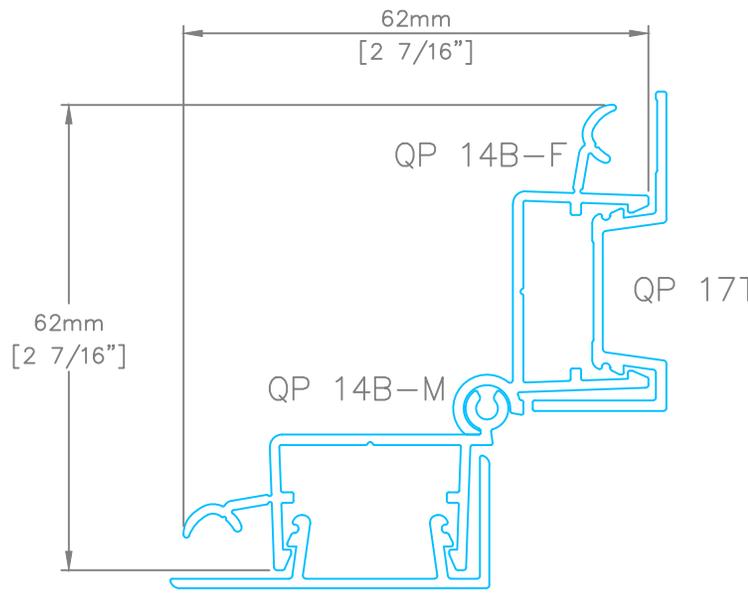
QP 10B



QP 11B



QP 13B-M



QP 14B-F

QP 17T

QP 14B-M

QP 43T

59mm
[2 5/16\"/>

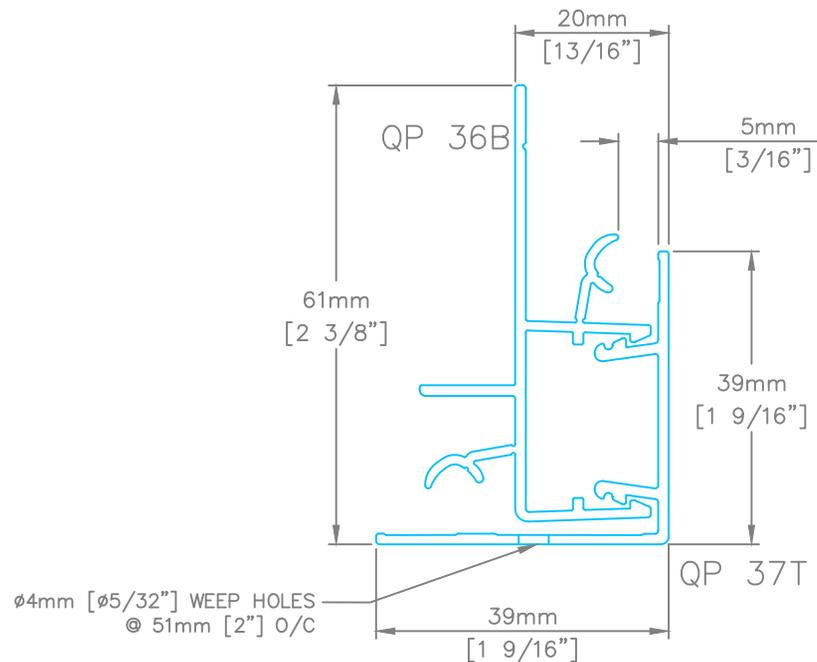
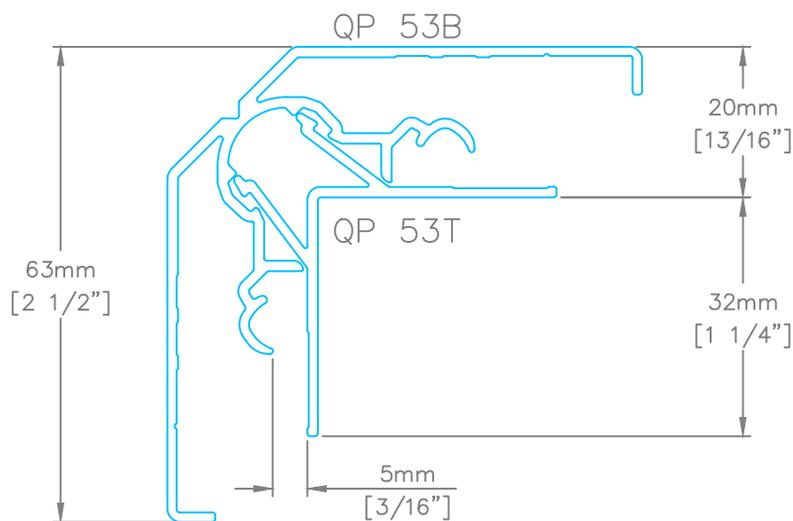
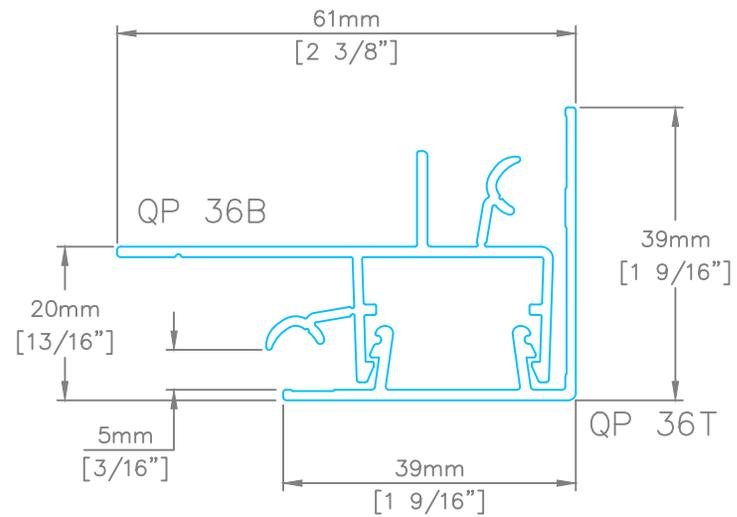
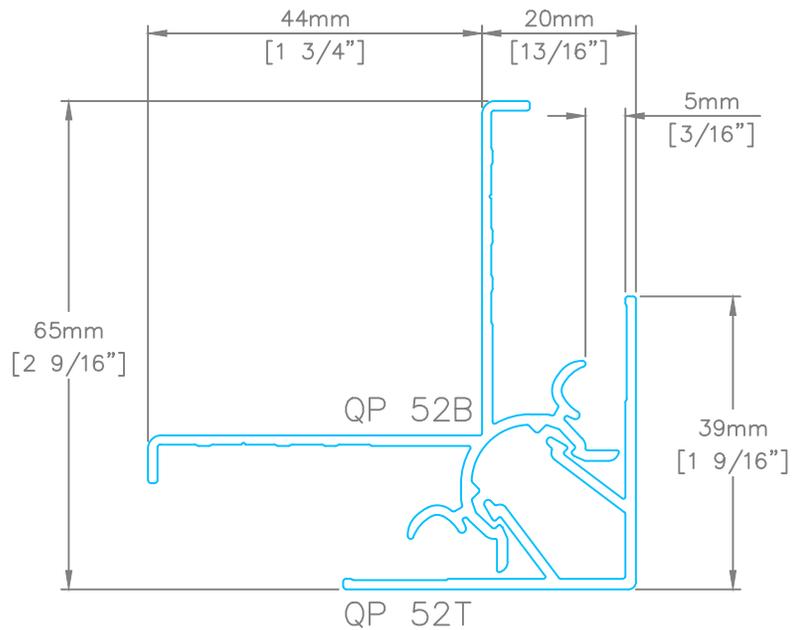
QP 09T

QP 42T

QP 13B-F

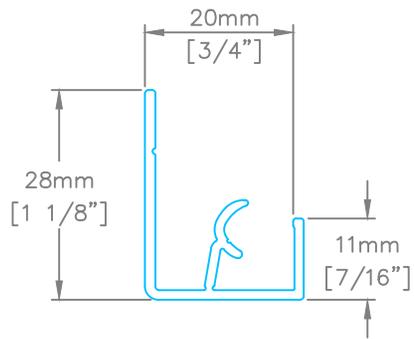
ALL BACK PLATES APPROX. 1.40mm [.055\"] ~15 ga

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BACK PLATES			
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	DRWN BY	HJ/DDG	



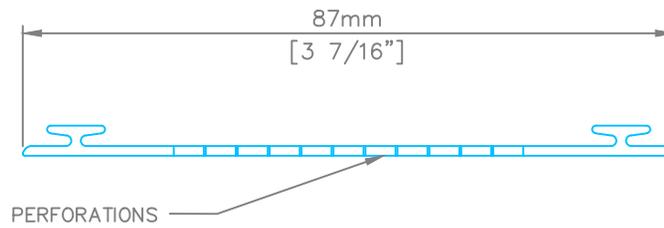
ALL TOP CAPS APPROX. 1.25mm [.050"] ~16 ga
 ALL BACK PLATES APPROX. 1.40mm [.055"] ~15 ga

DESCRIPTION			
UNIVERSAL TRIMS			
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	DRWN BY	HJ/DDG	

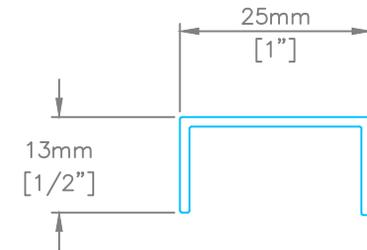


QP 20S

7.7 in²/ LIN FT
 163.3 cm²/ LIN m
 NET FREE AIR SPACE



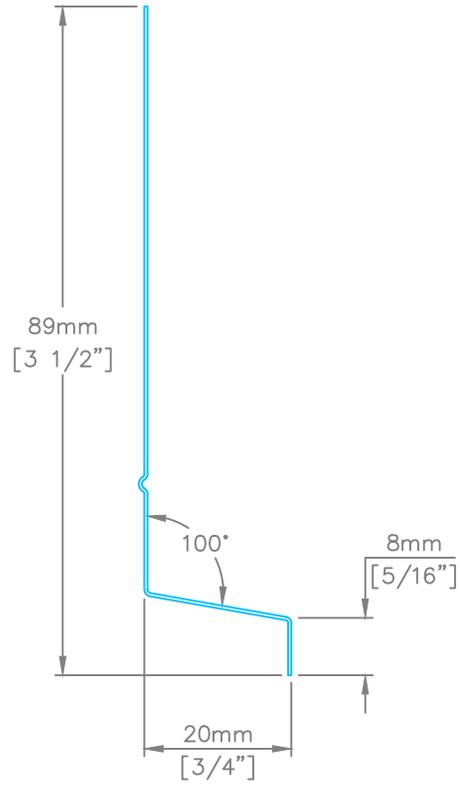
QP 25S



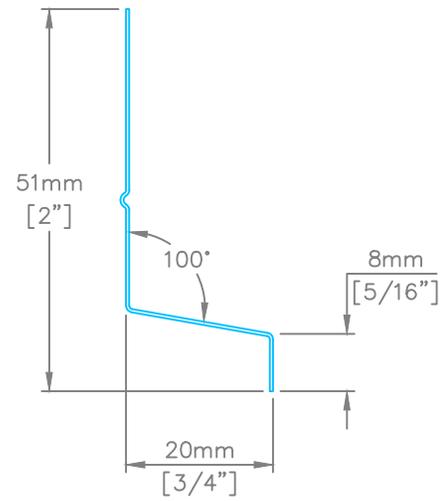
QP 06S (PVC)

ALL TOP CAPS APPROX. 1.25mm [.050\"] ~16 ga
 ALL BACK PLATES APPROX. 1.40mm [.055\"] ~15 ga

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ONE PIECE TRIMS			
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	DRWN BY	HJ/DDG	



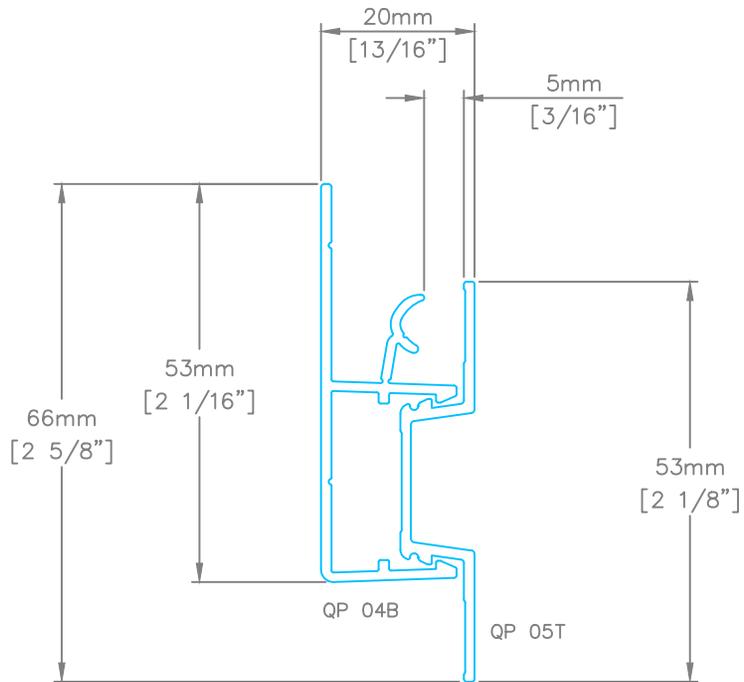
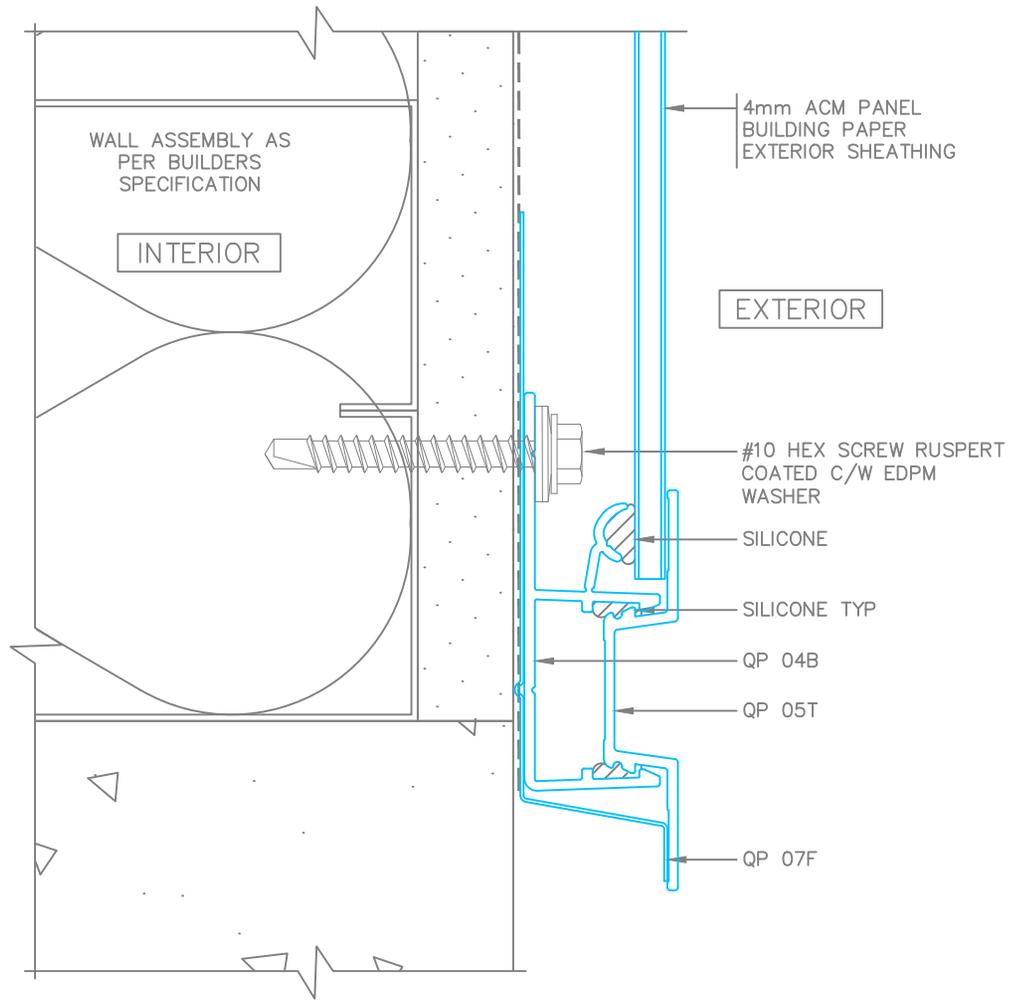
QP 07F



QP 07WSF

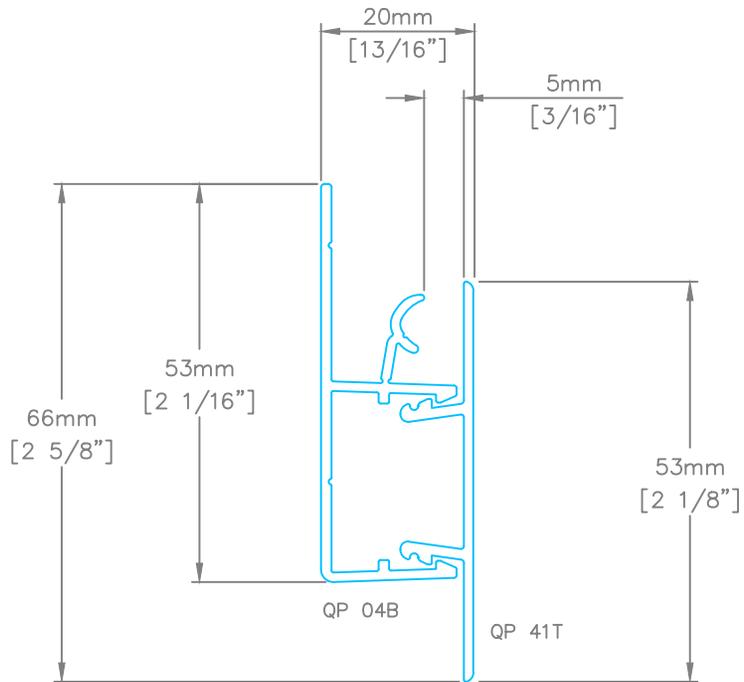
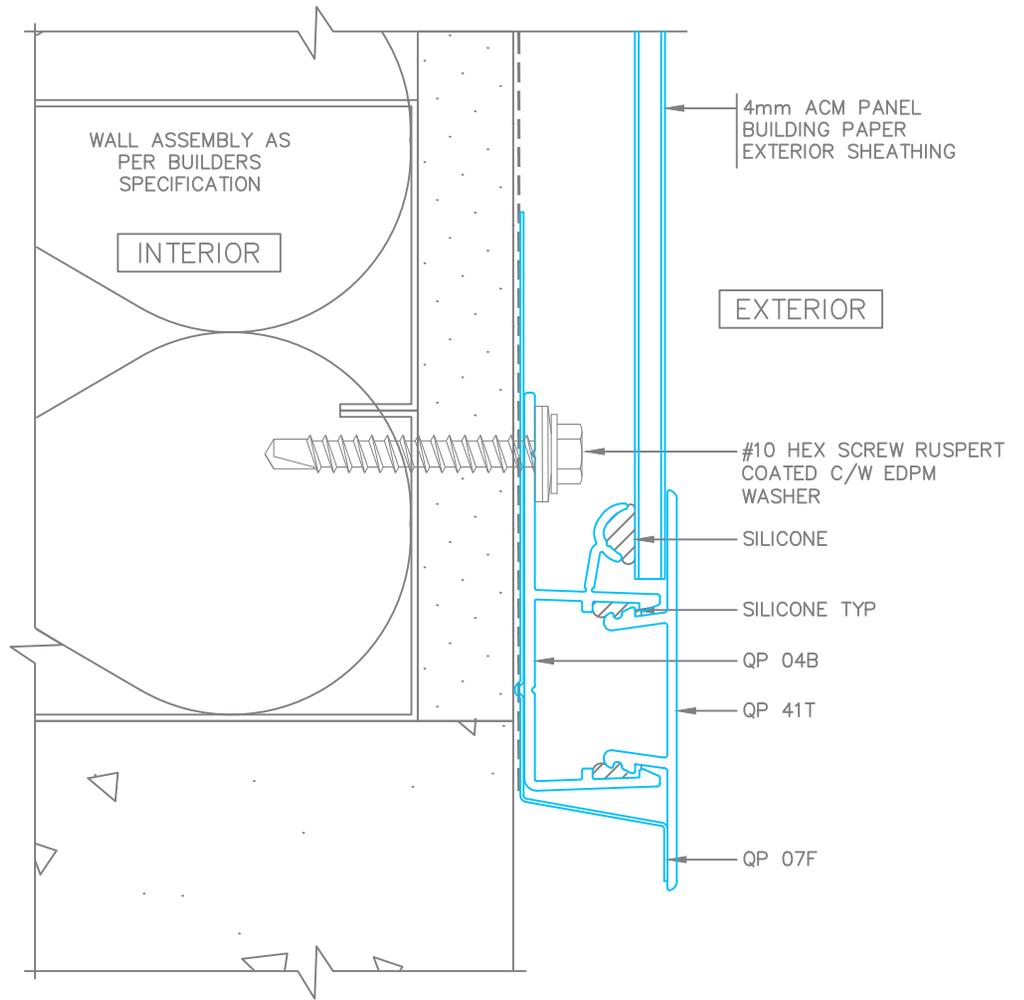
ALL FLASHING APPROX. 0.43mm [.017"] ~26 ga

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FLASHING			
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	DATE	AUG2023	QP0.6
	DRWN BY	HJ/DDG	



DESCRIPTION
REVEAL PERIMETER STARTER DETAIL

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	DATE	AUG2023	QP1.1a
	DRWN BY	HJ/DDG	



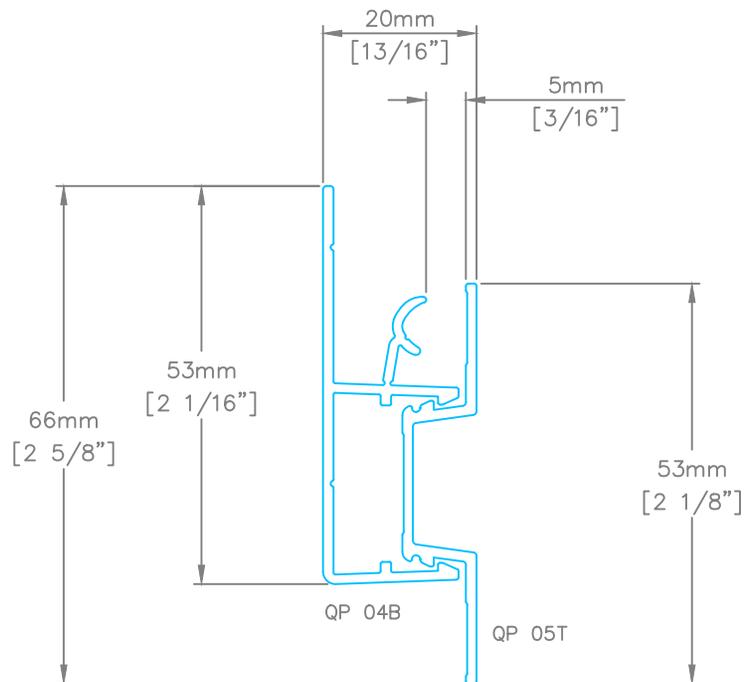
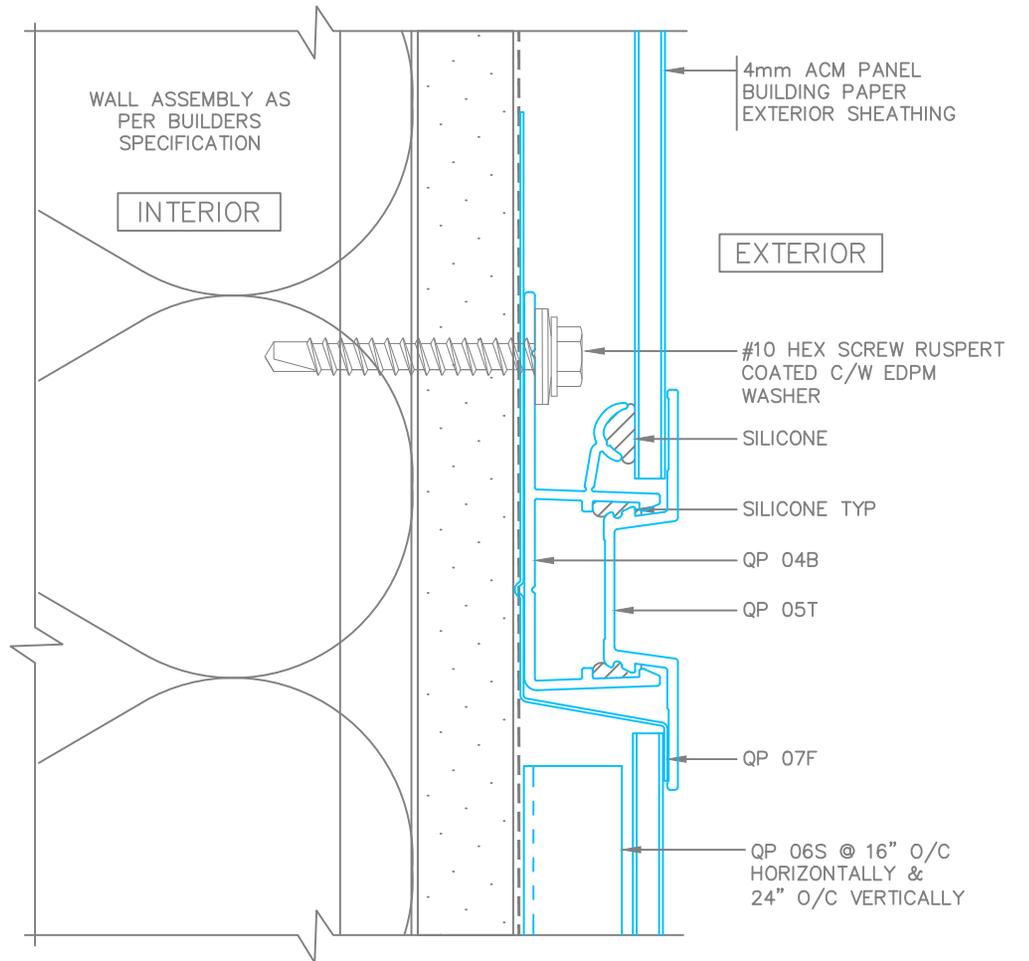
DESCRIPTION

ABSOLUTE PERIMETER STARTER DETAIL

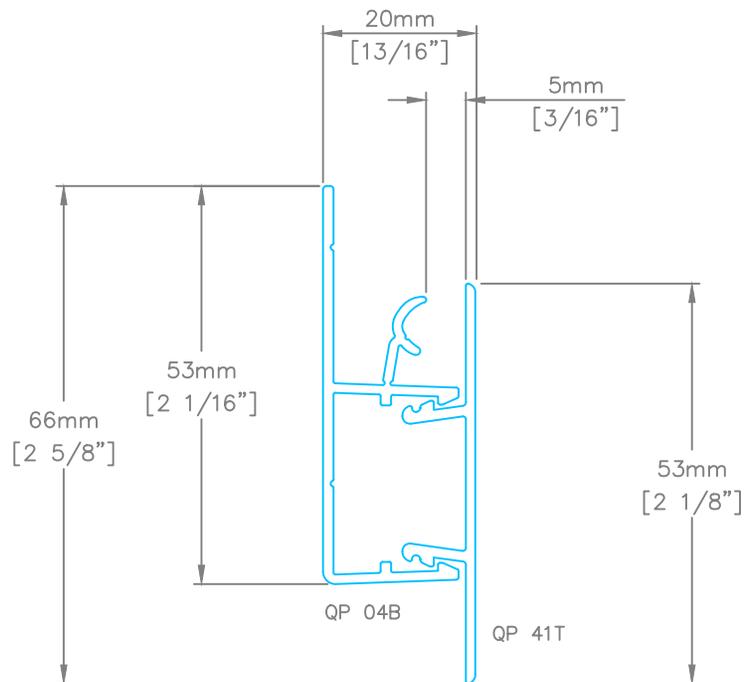
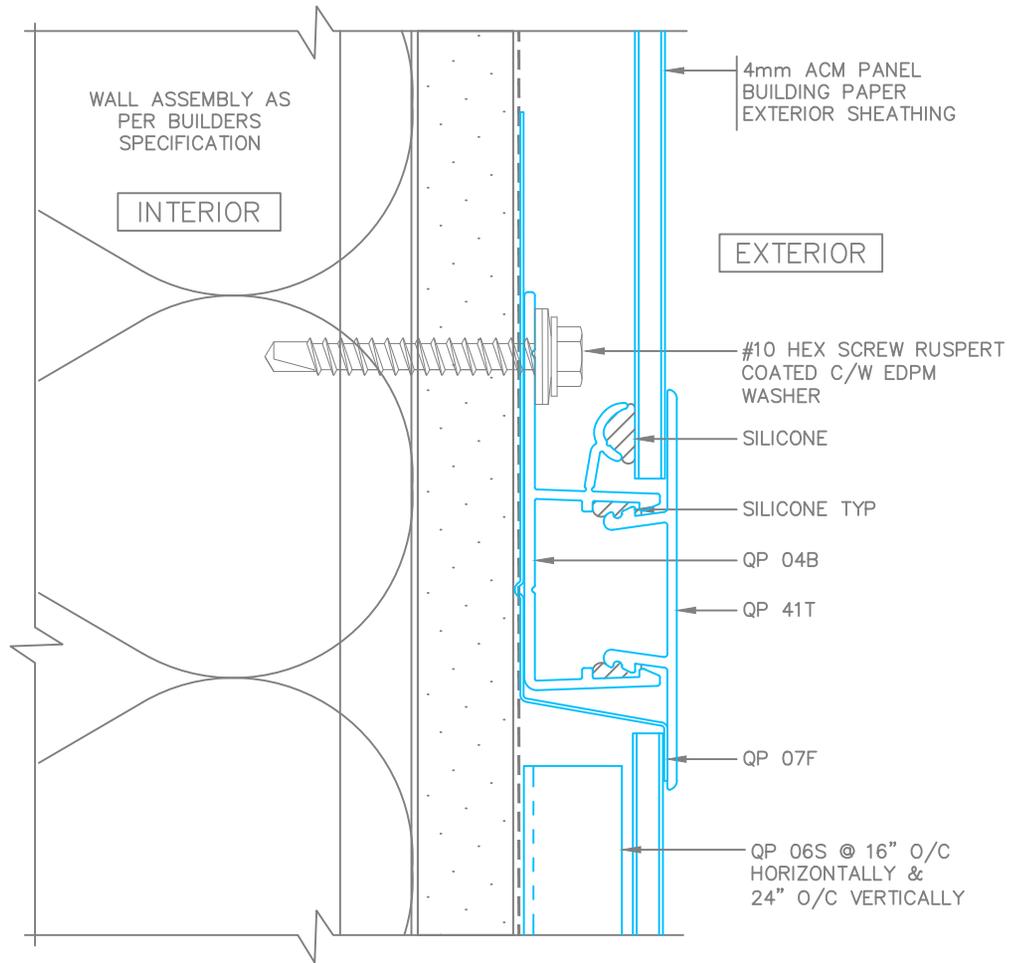


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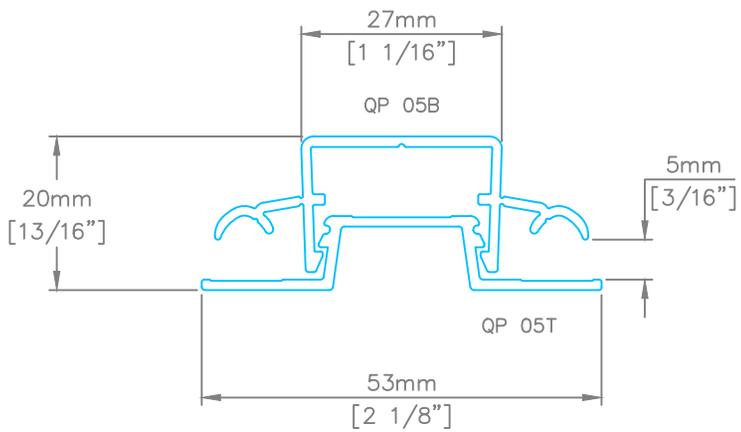
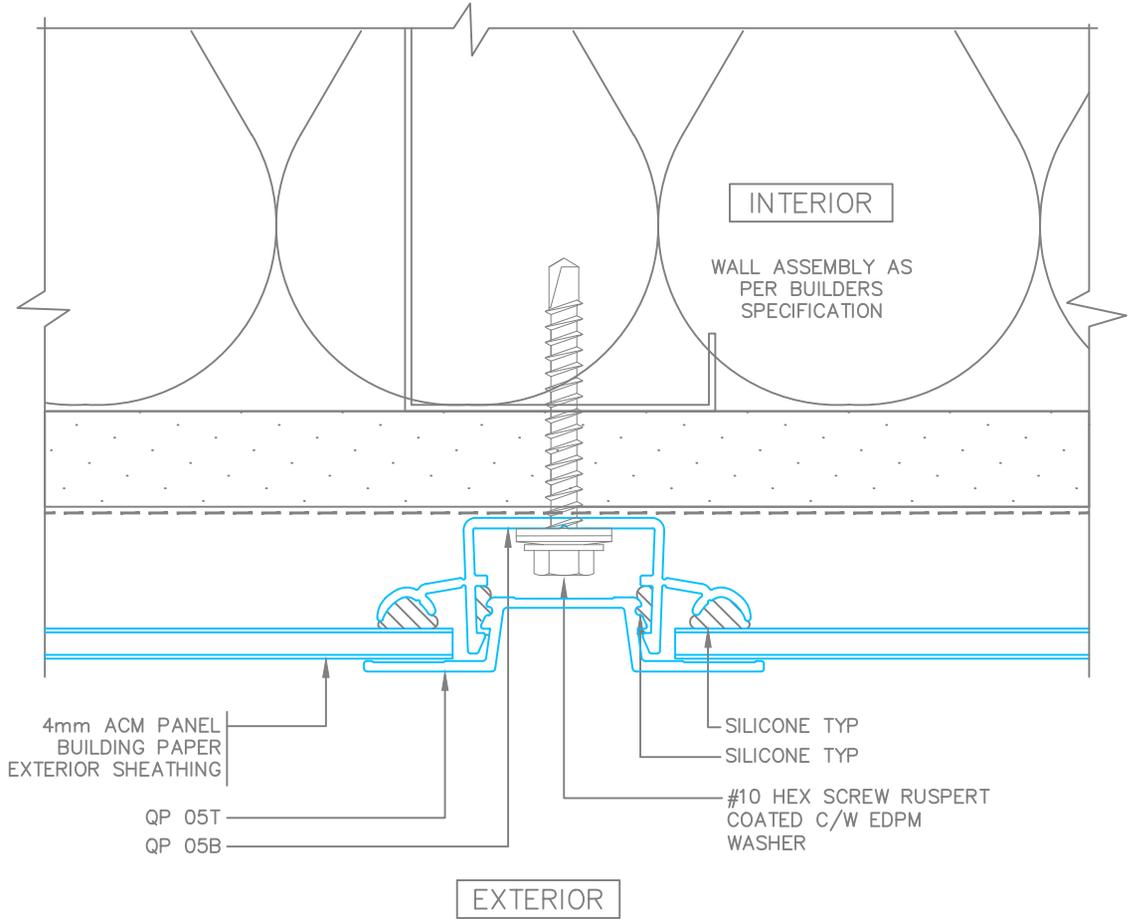
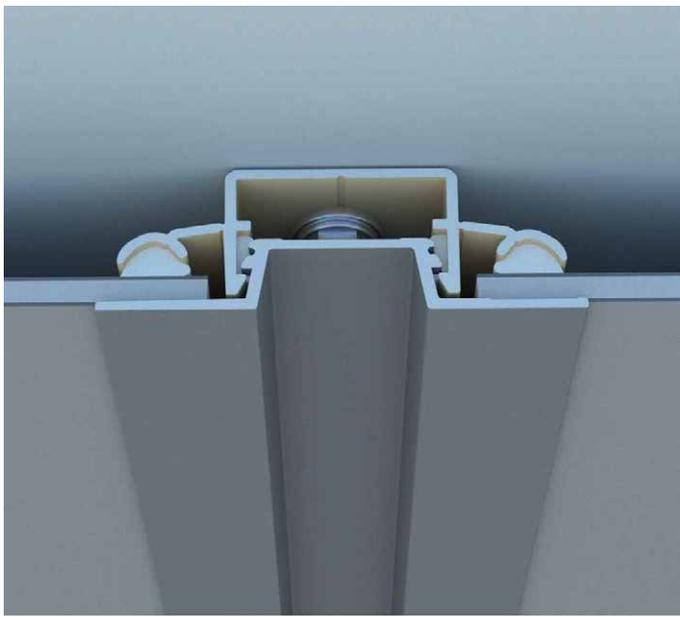
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DATE	AUG2023	QP1.1b
DRWN BY	HJ/DDG	



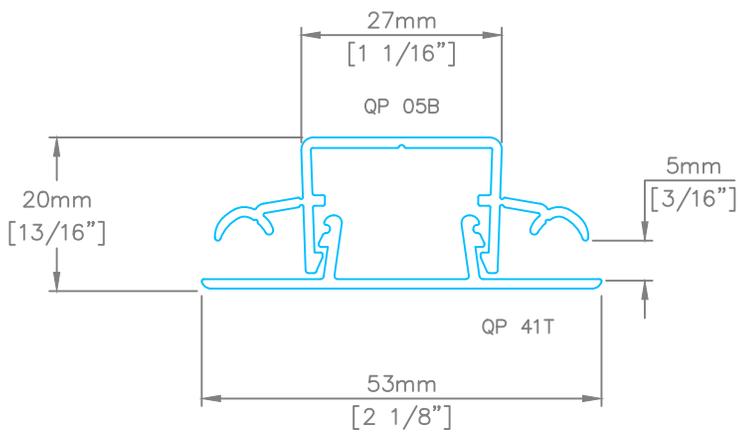
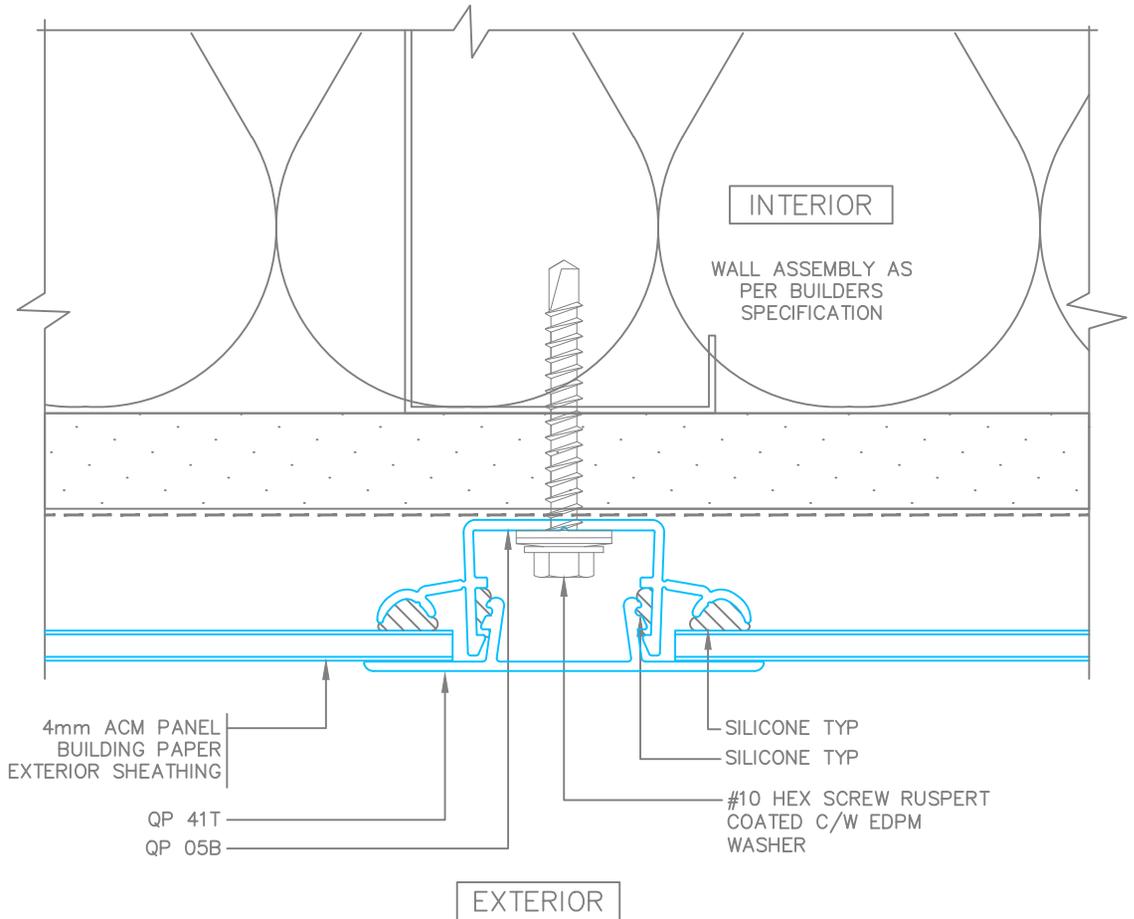
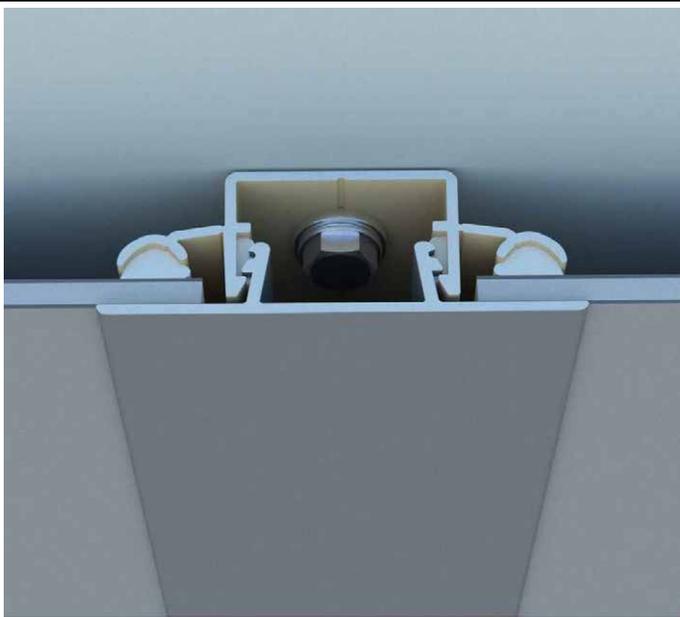
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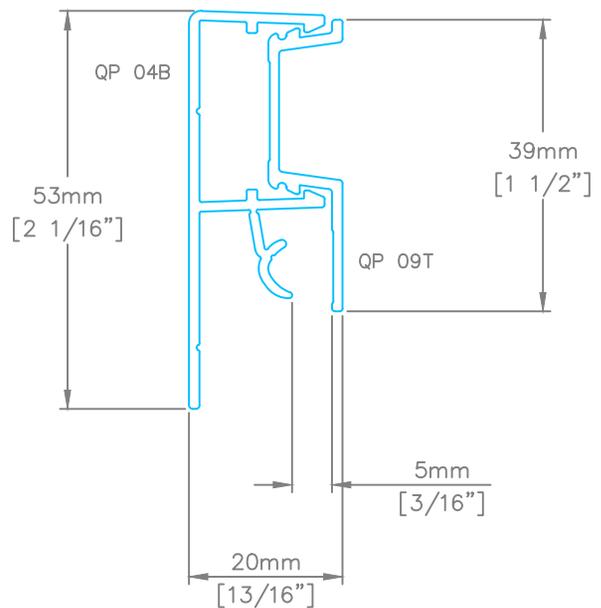
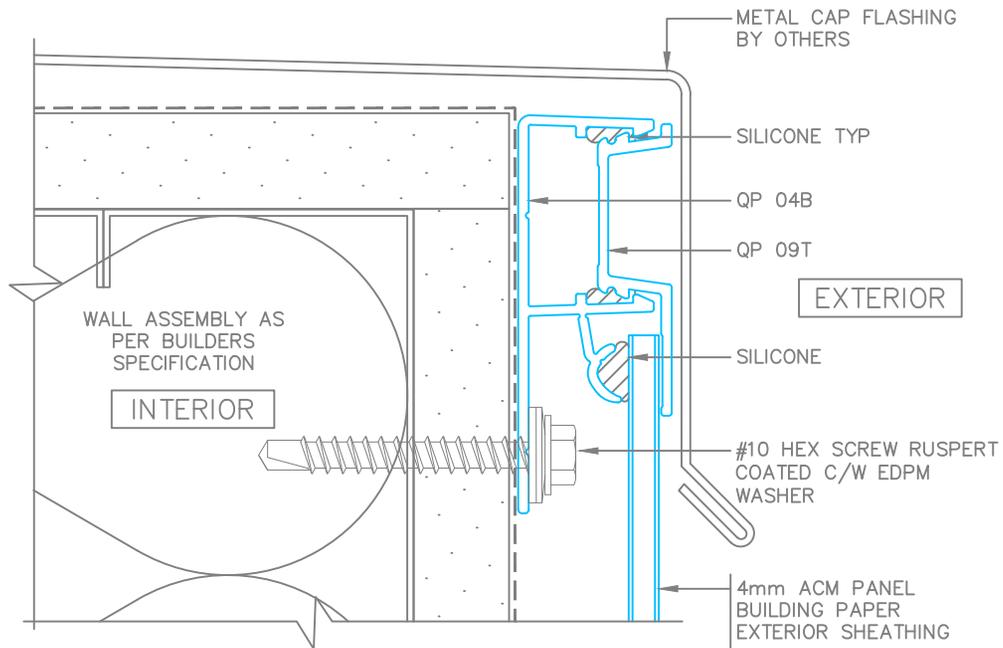
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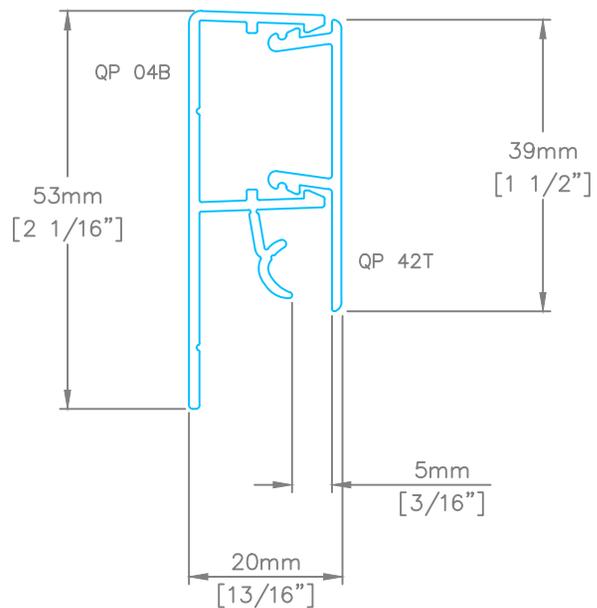
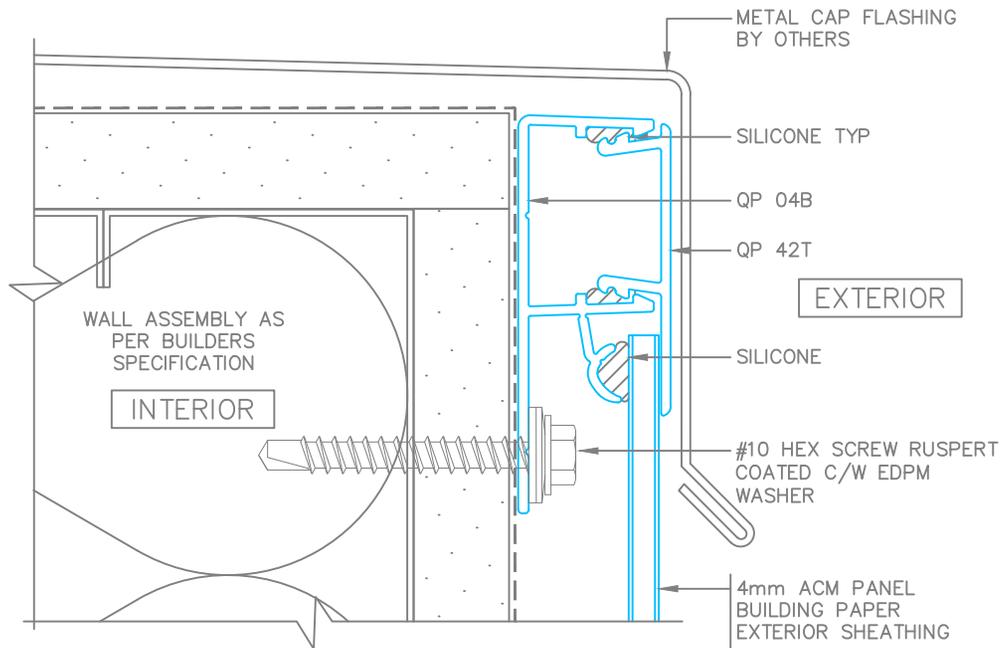
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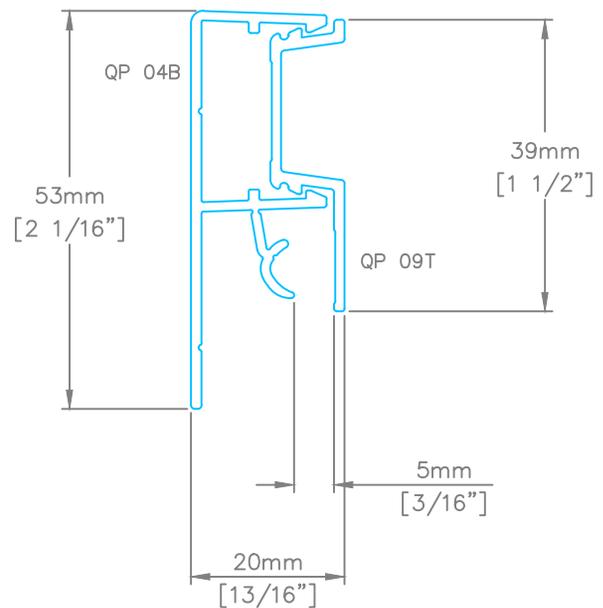
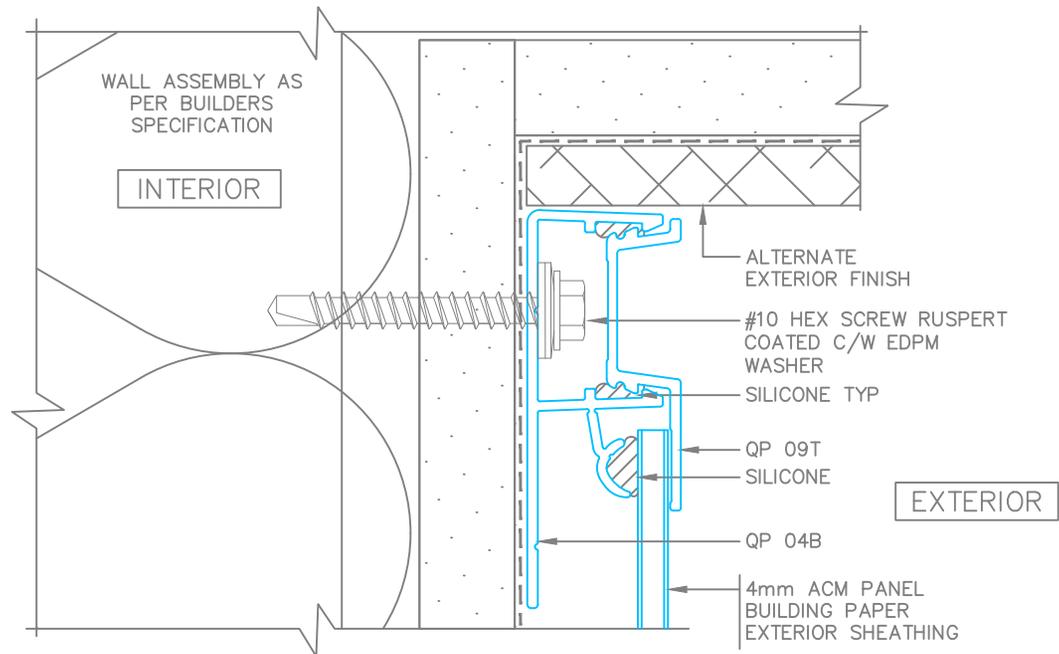
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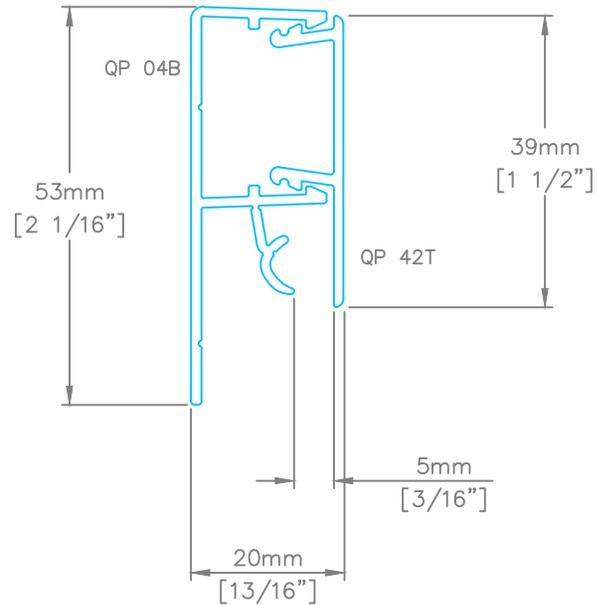
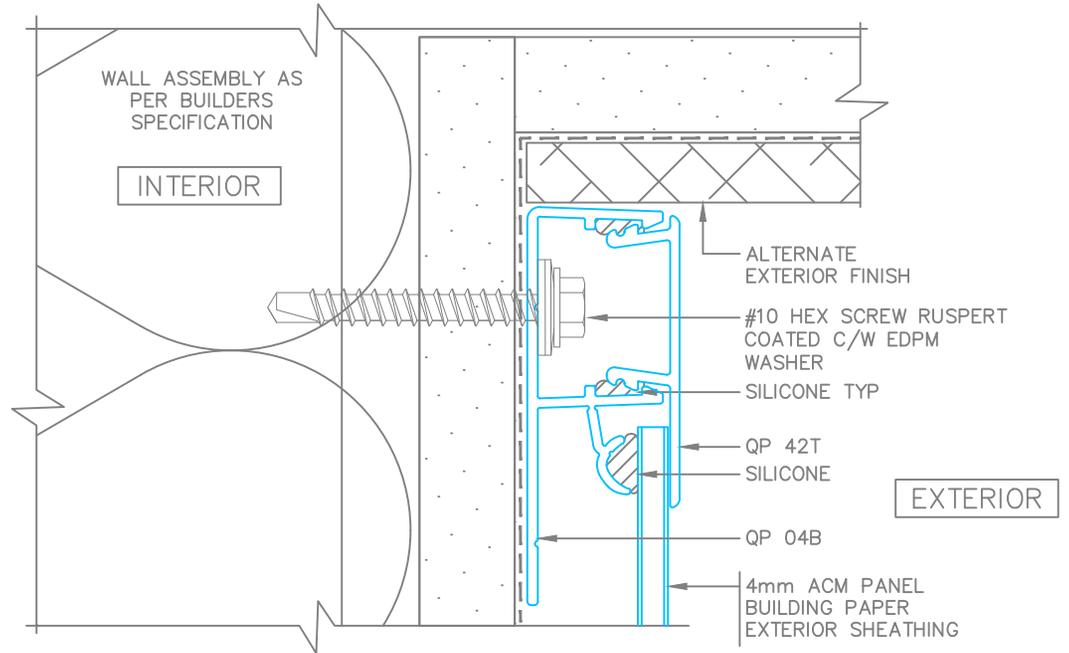
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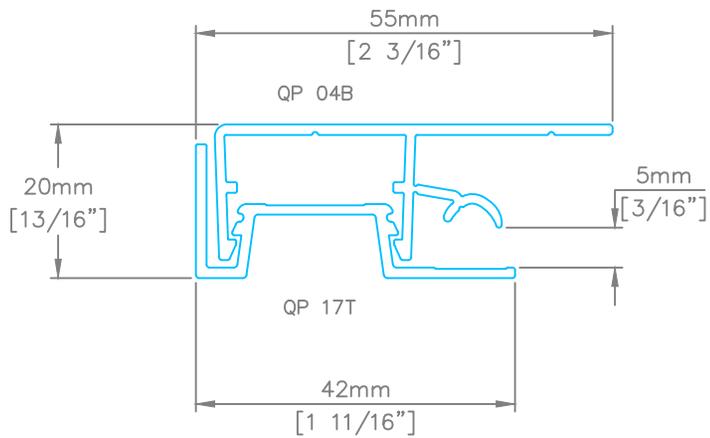
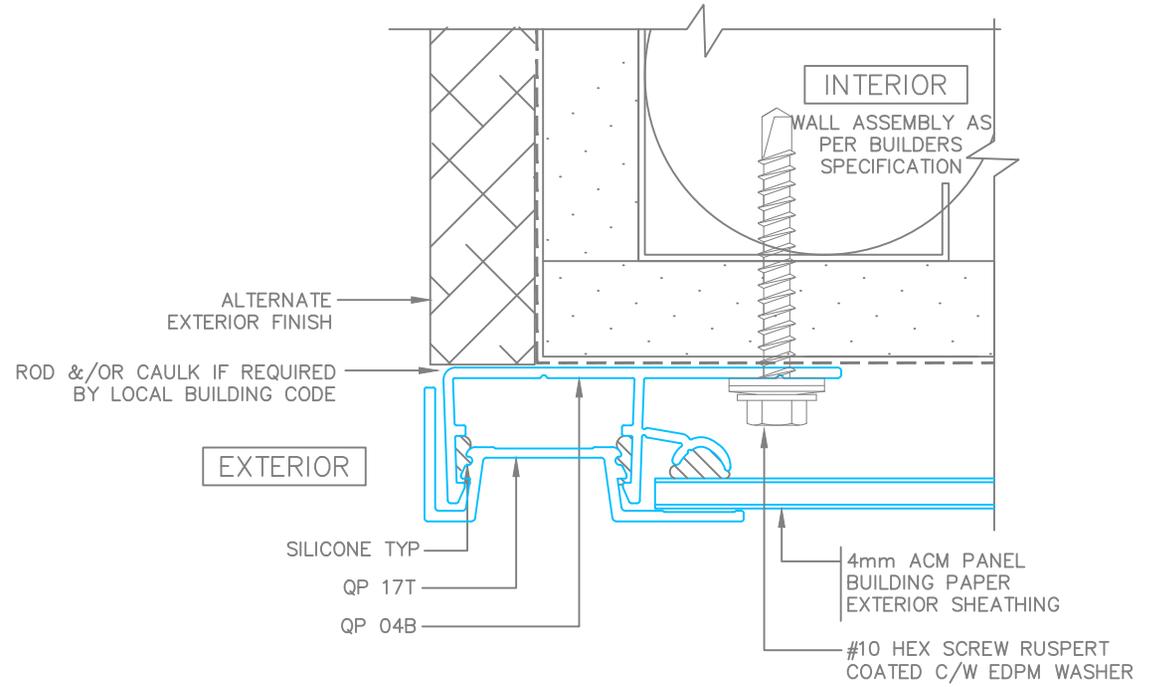
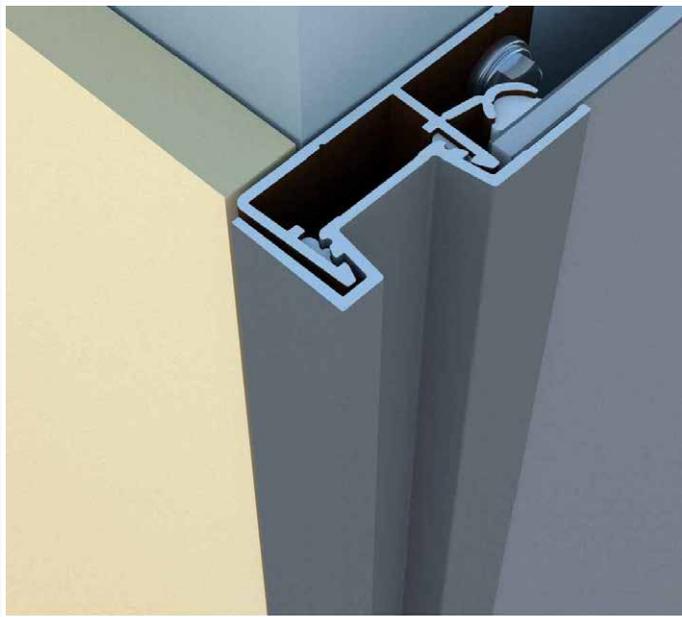
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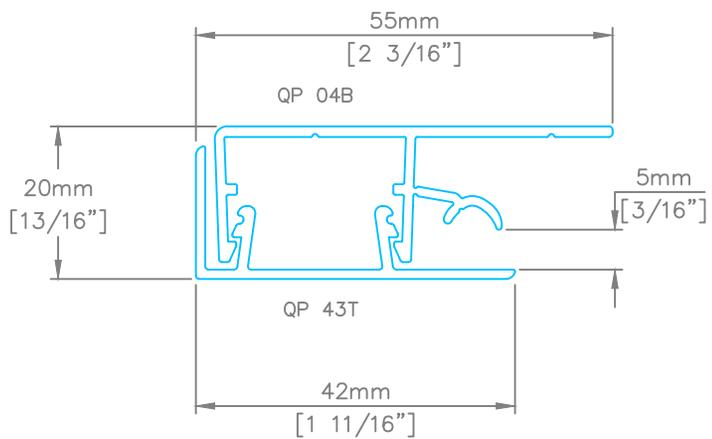
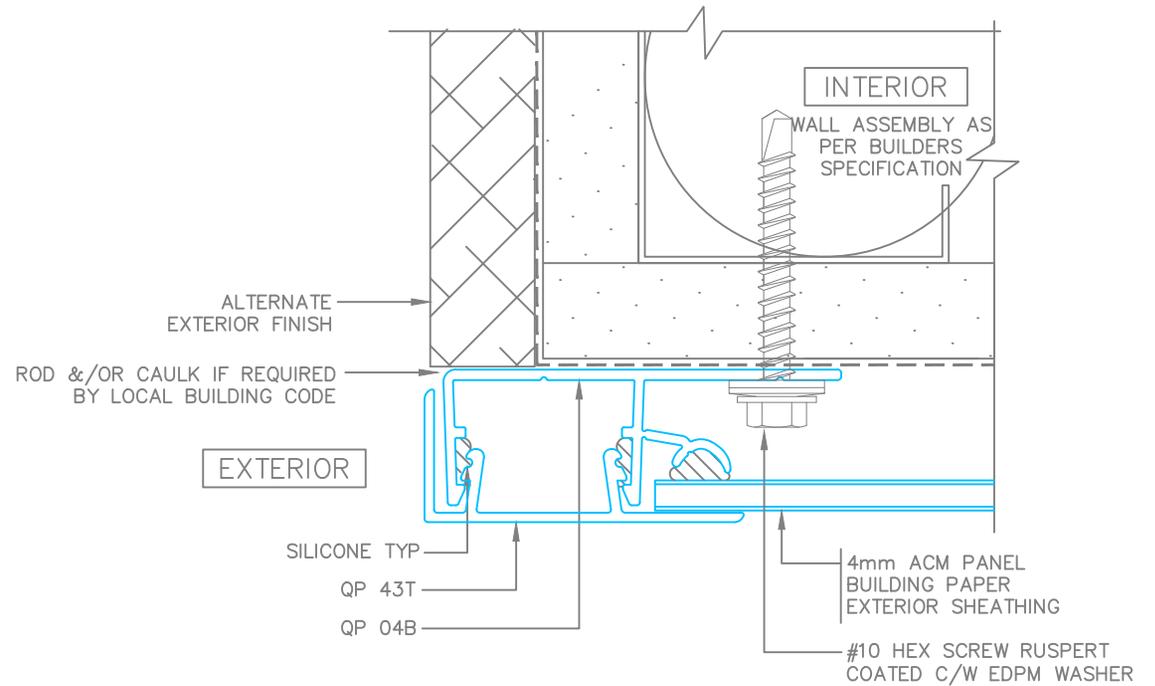
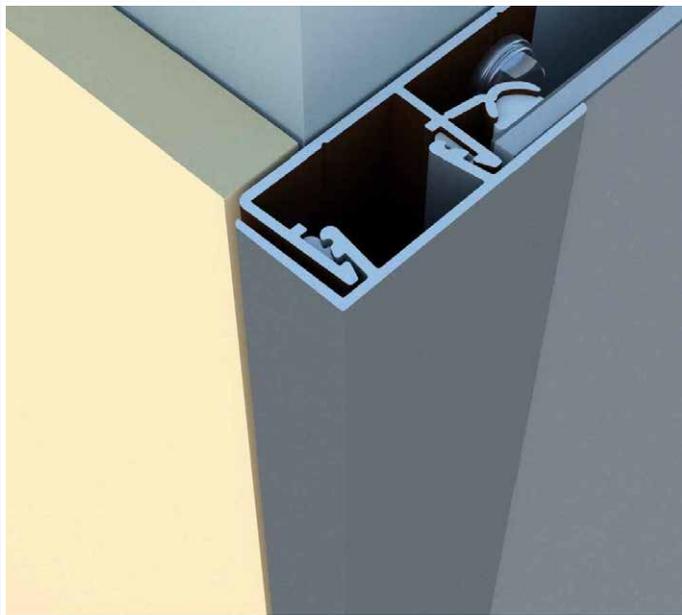
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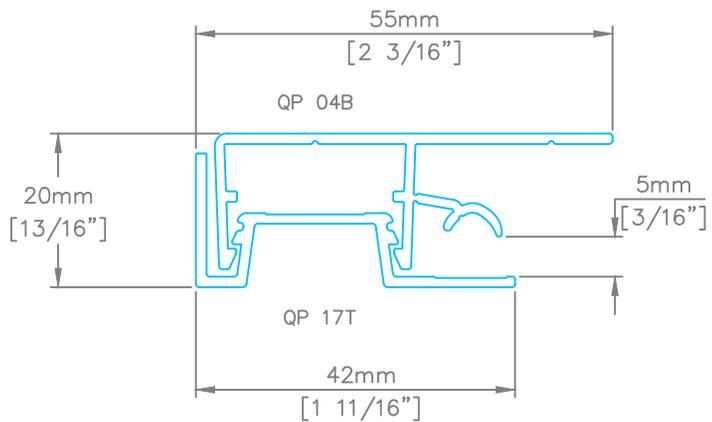
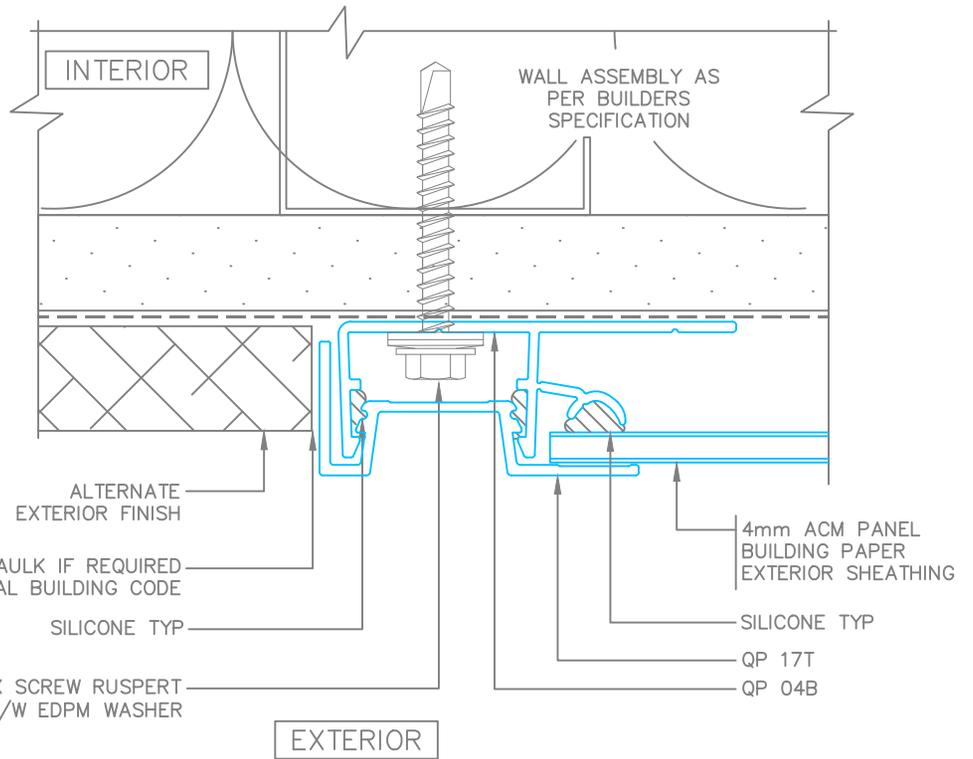
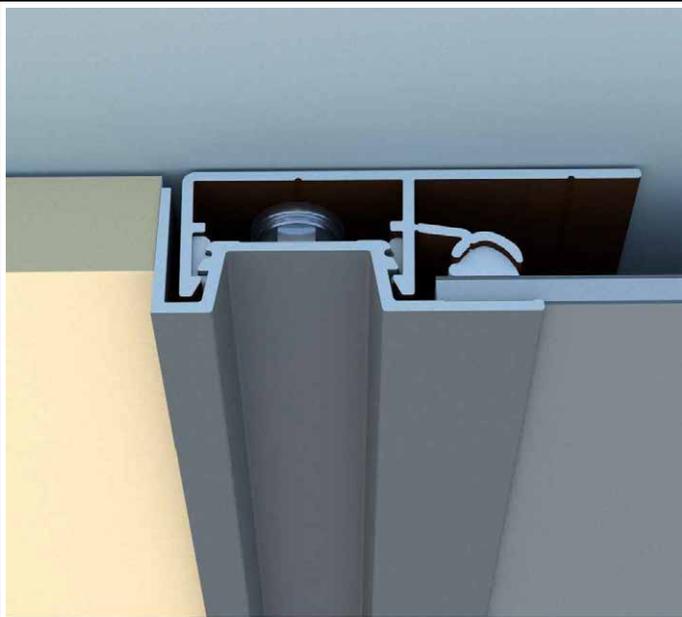
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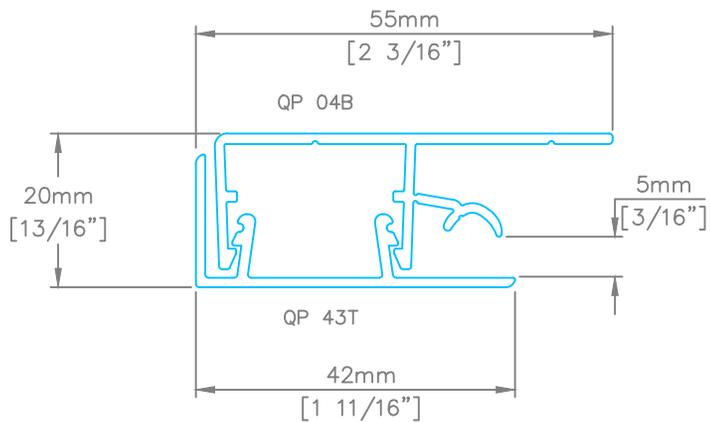
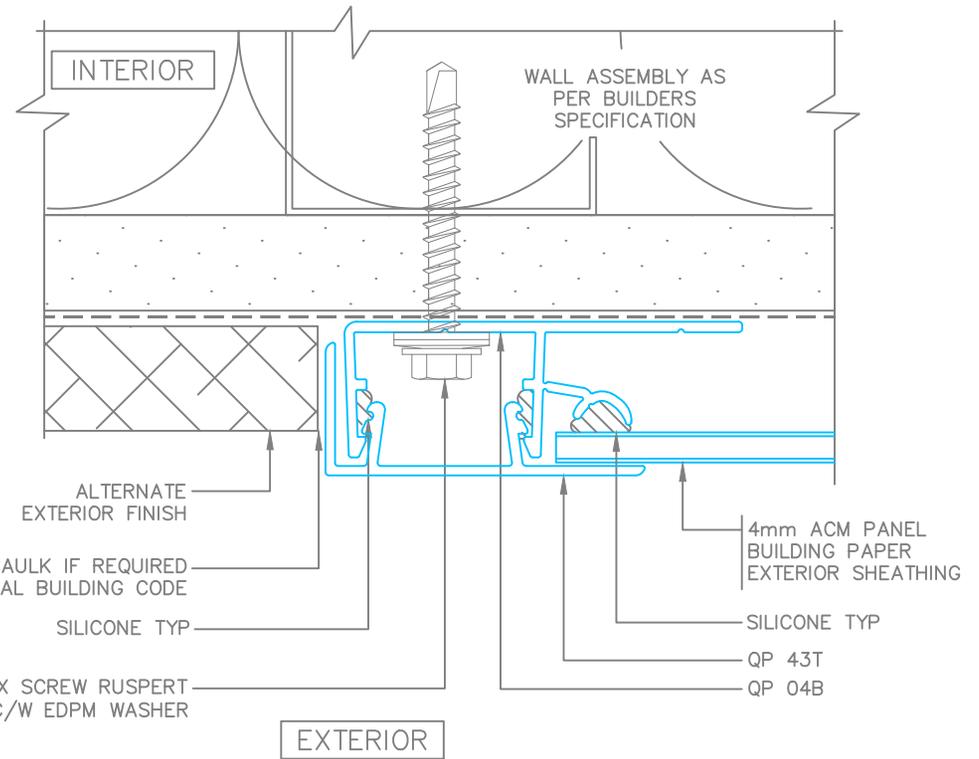
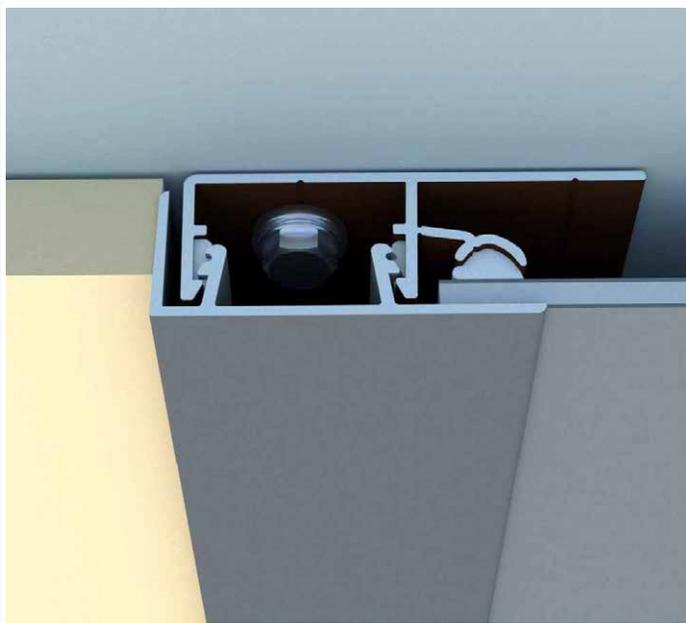
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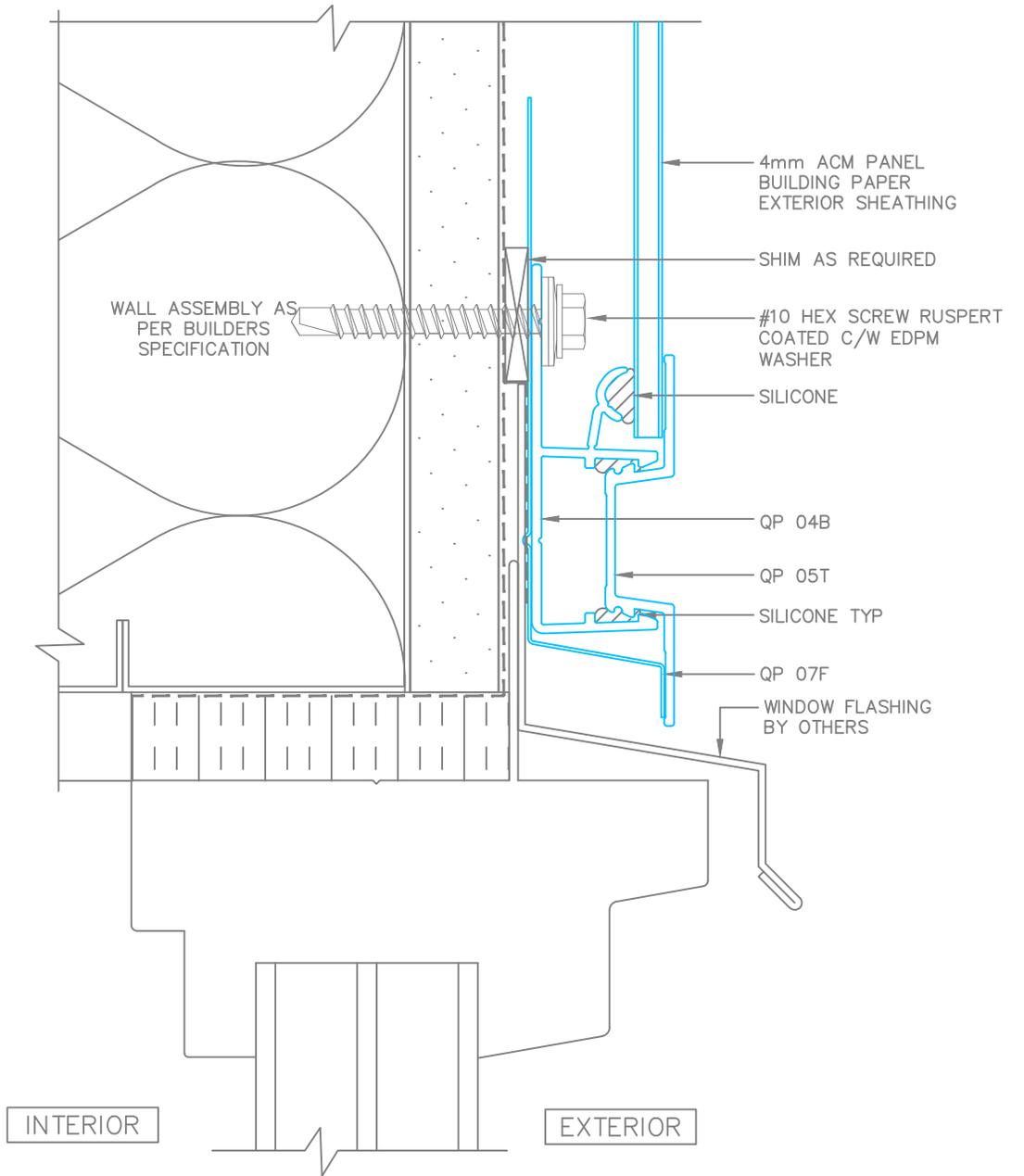
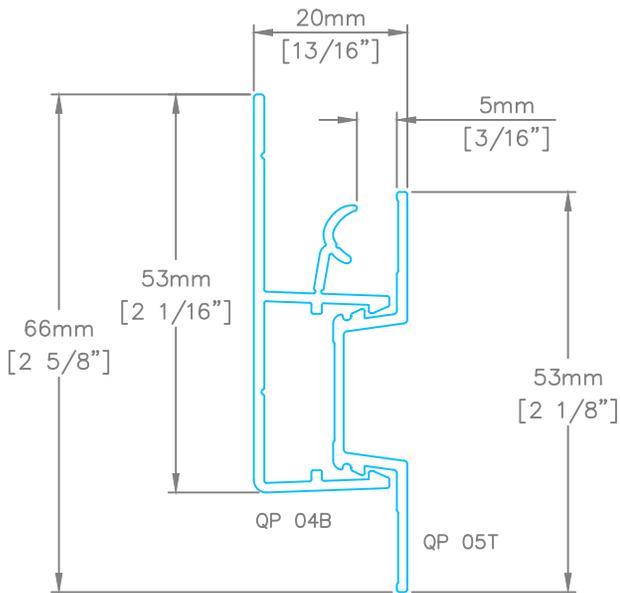
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DESCRIPTION			
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	SCALE	NTS	DRAWING NUMBER
	DATE	AUG2023	QP1.7a
	DRWN BY	HJ/DDG	



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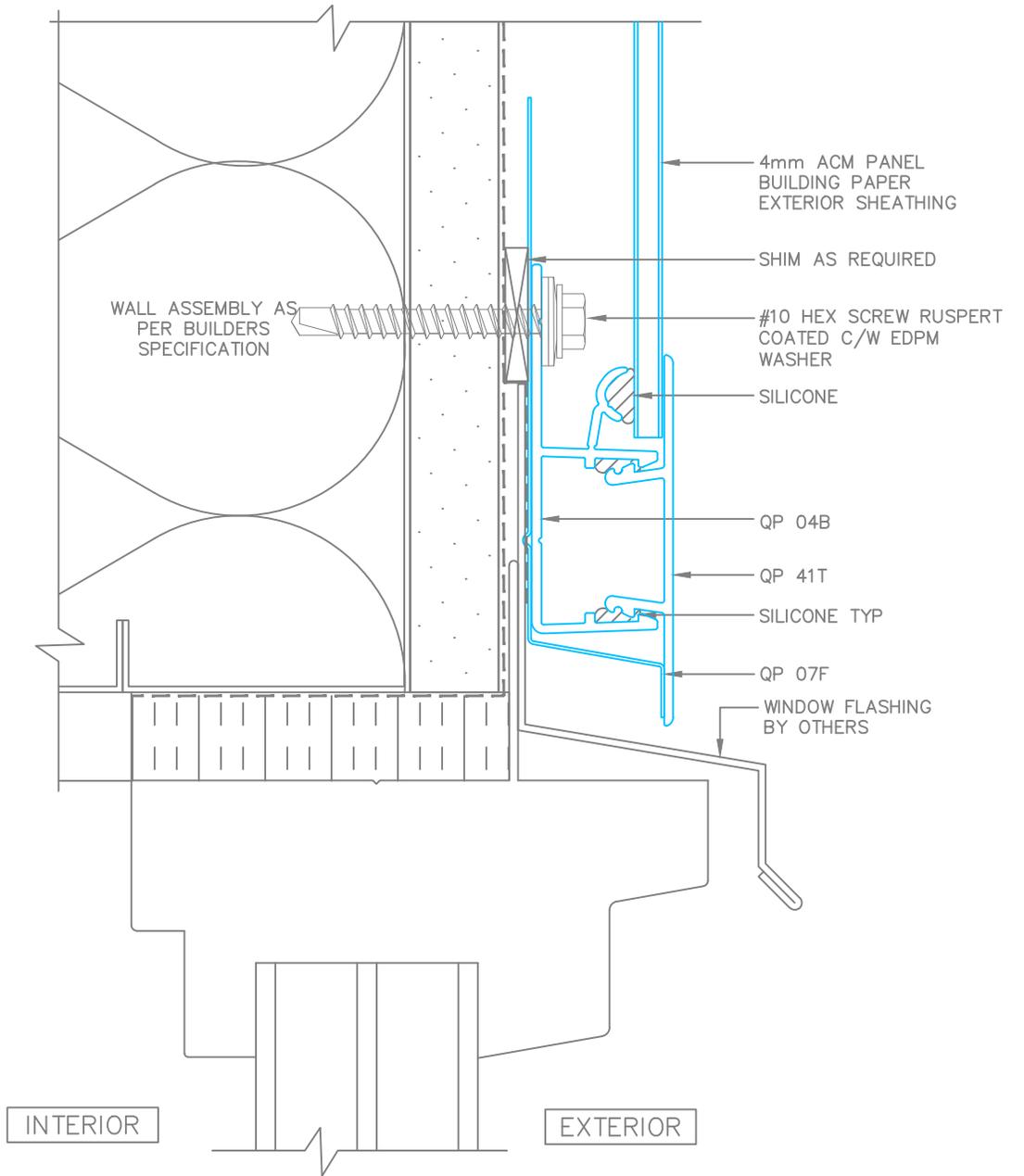
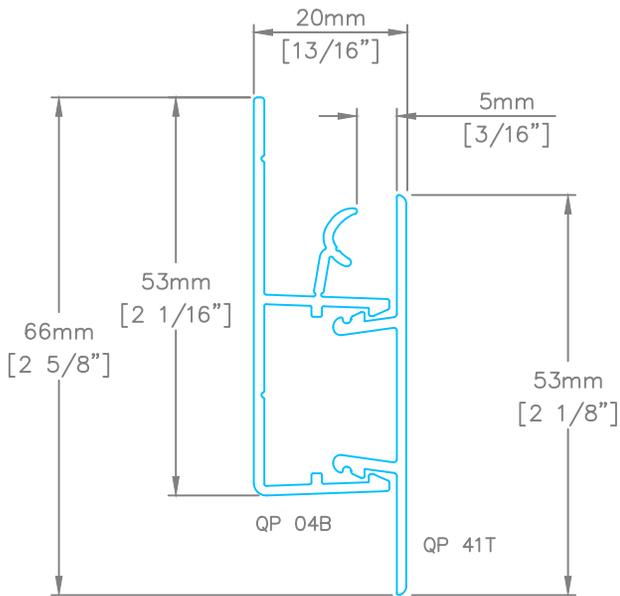
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REVEAL (PROJECTING) WINDOW HEAD DETAIL

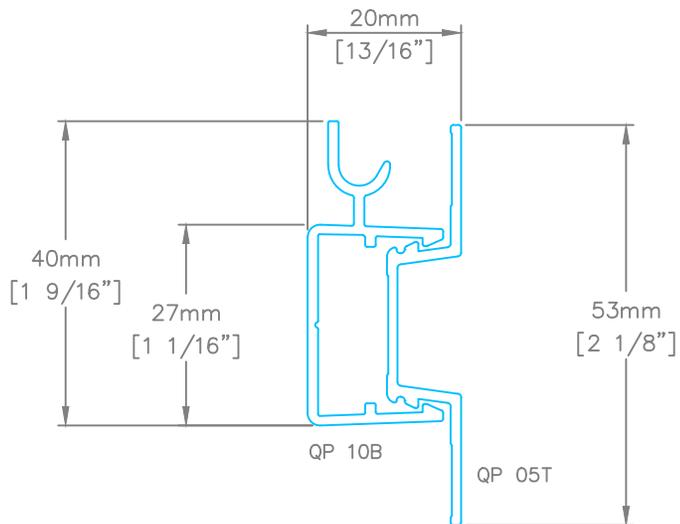
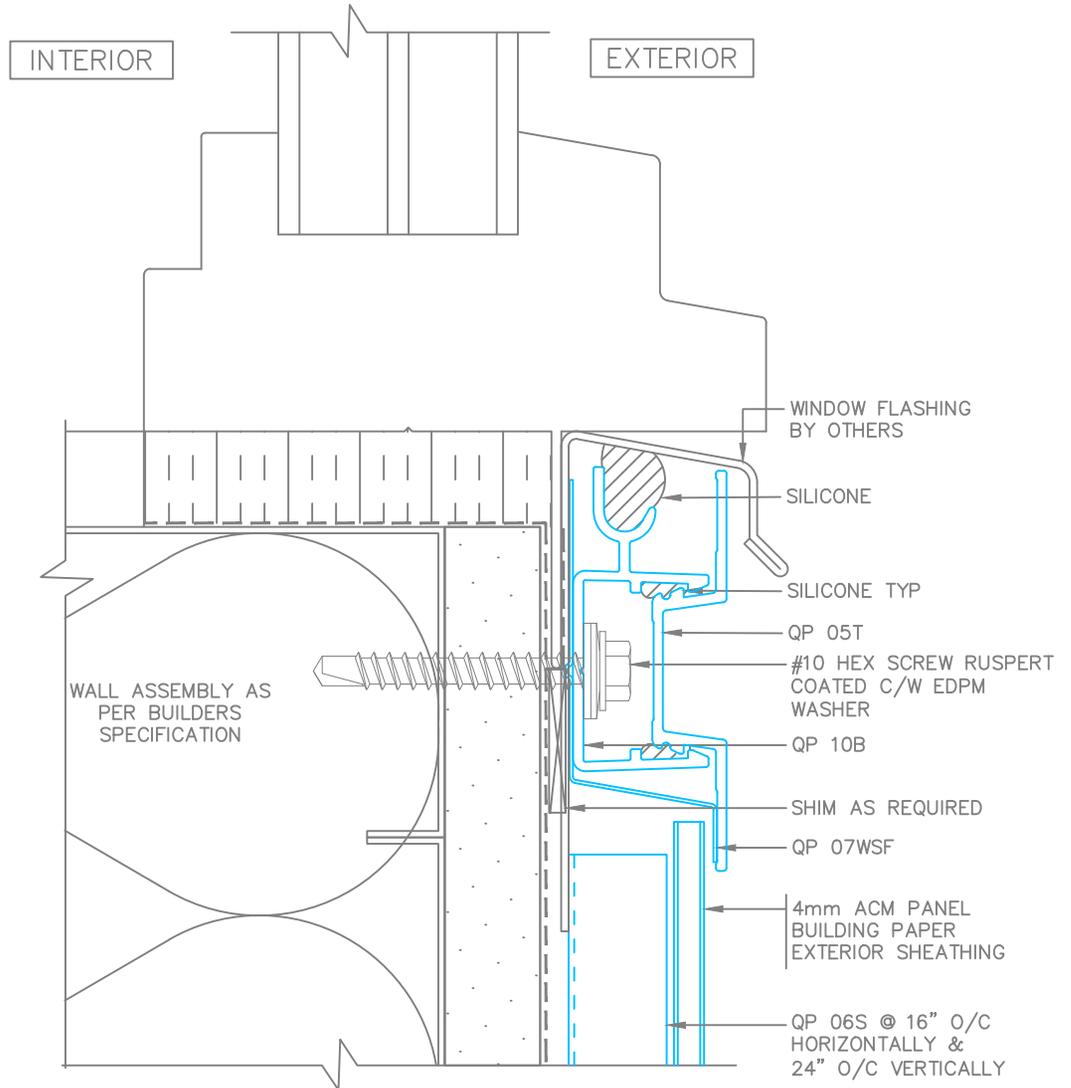


QuickPanel
Systems

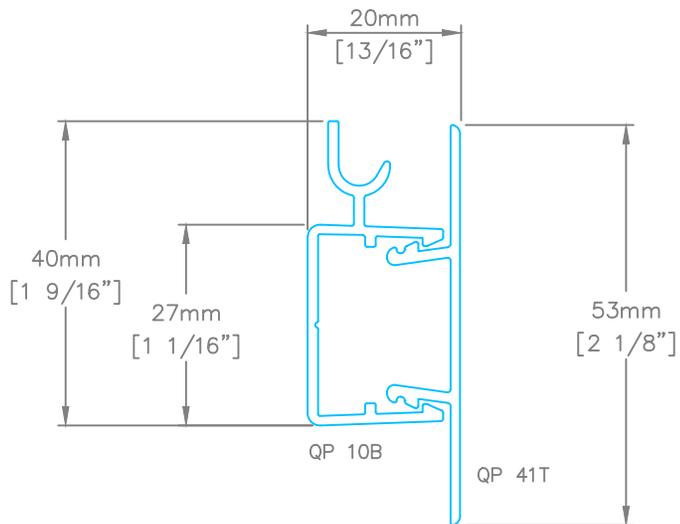
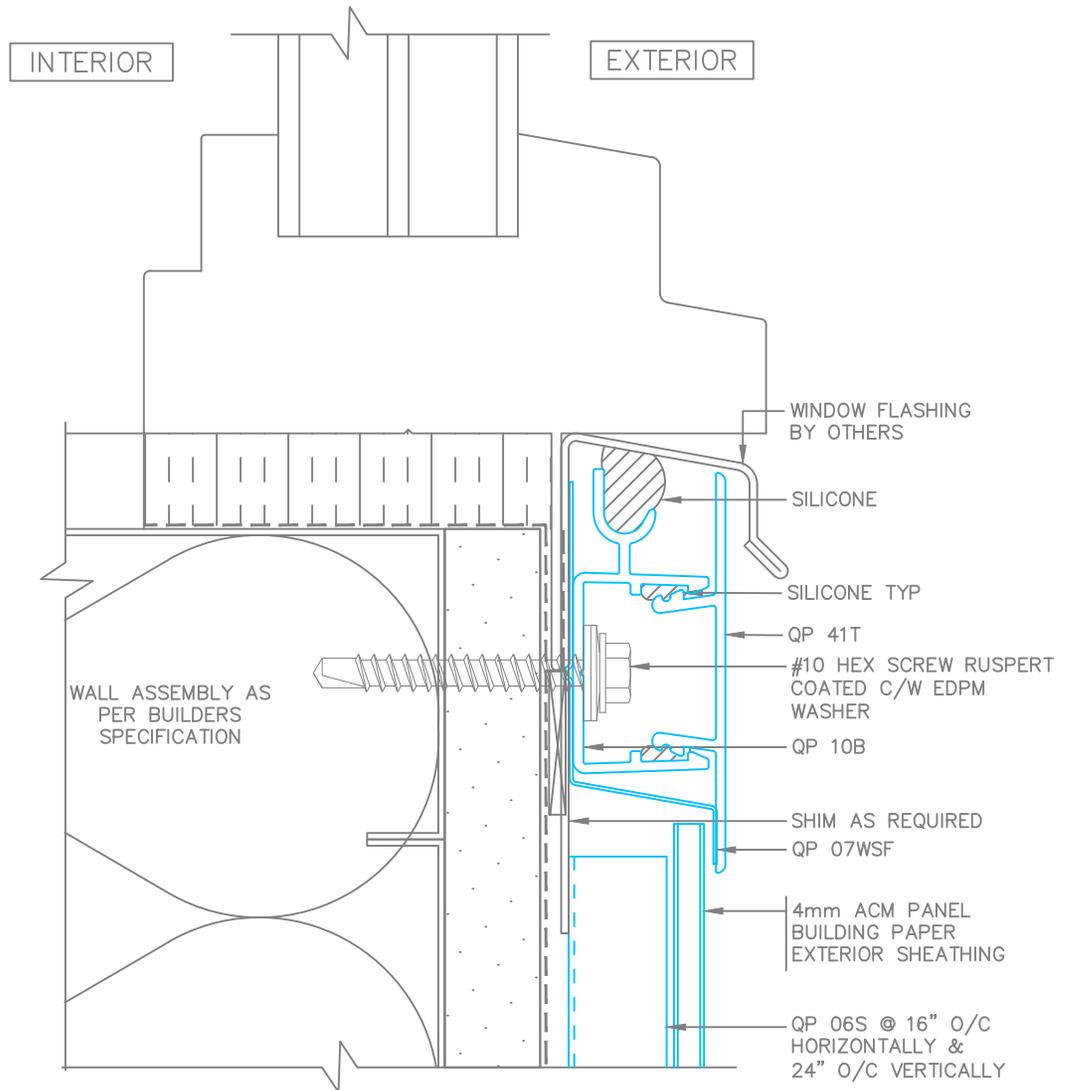
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DATE	AUG2023	QP2.1a
DRWN BY	HJ/DDG	



DESCRIPTION			
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	SCALE	NTS	DRAWING NUMBER
	DATE	AUG2023	QP2.1b
	DRWN BY	HJ/DDG	



DESCRIPTION			
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	DRWN BY	HJ/DDG	

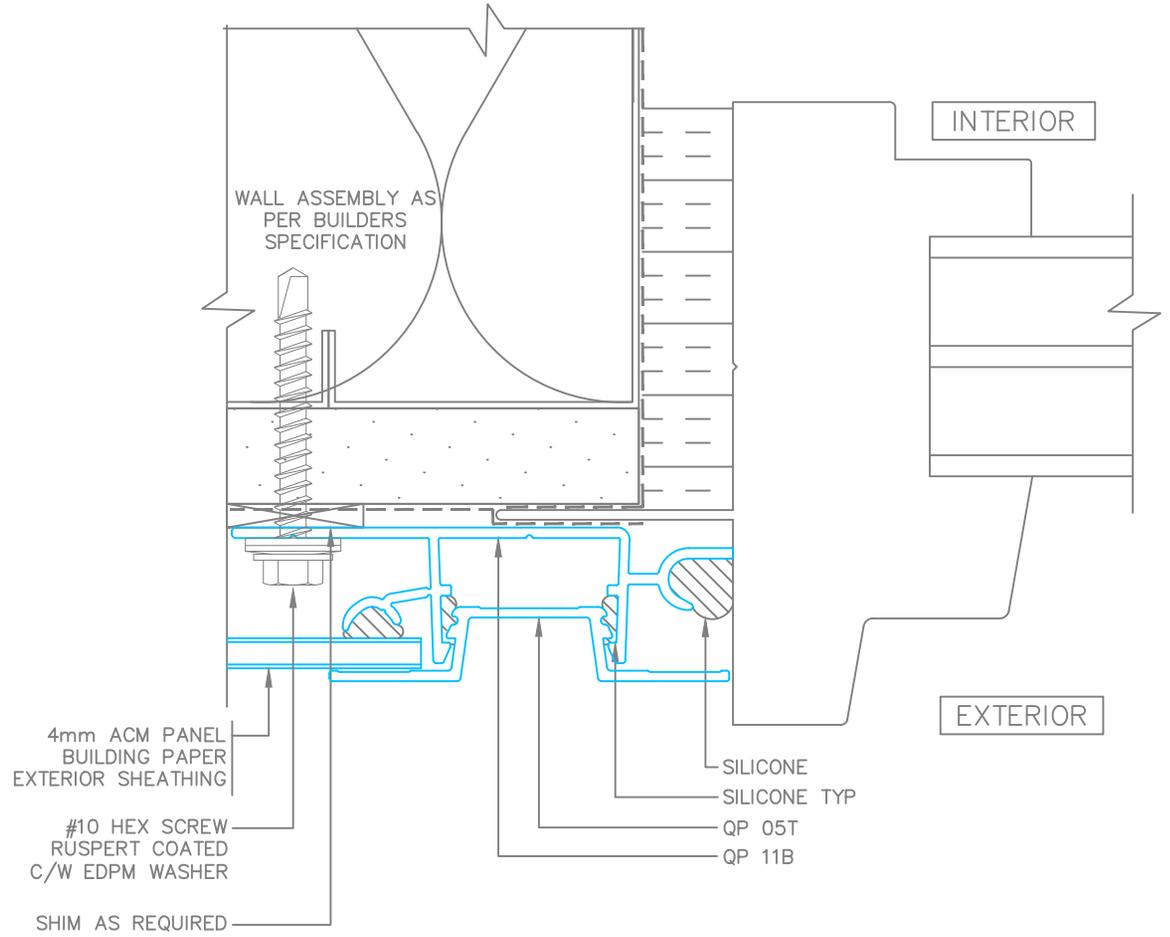
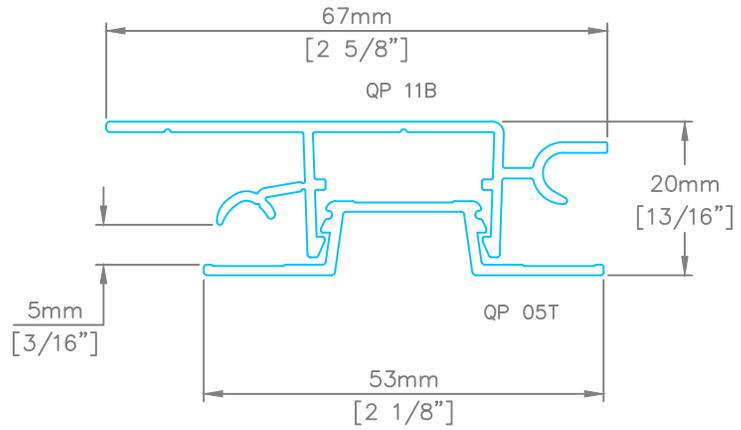
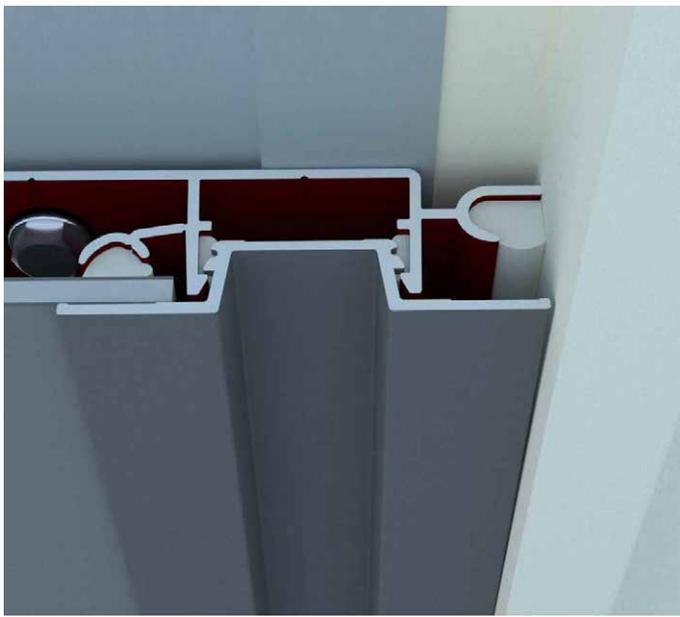


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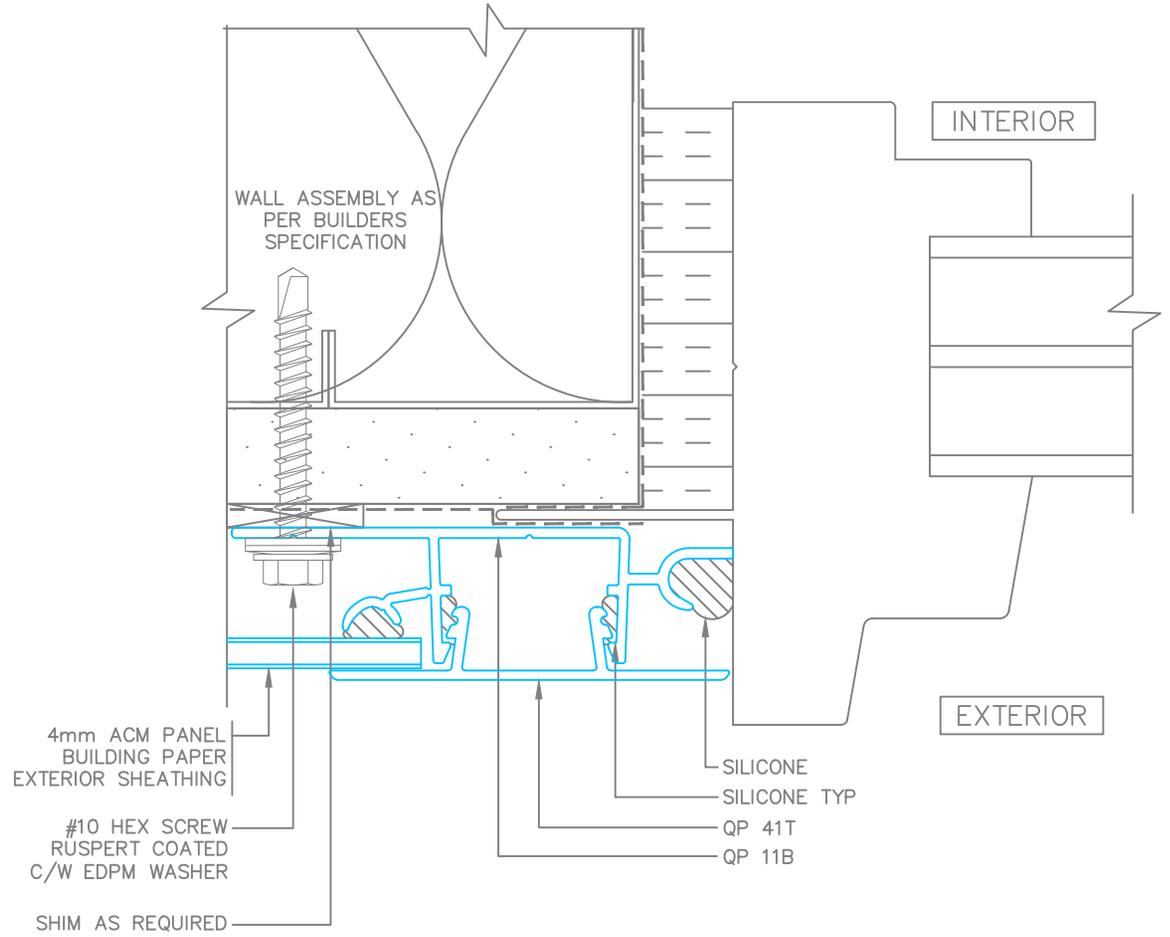
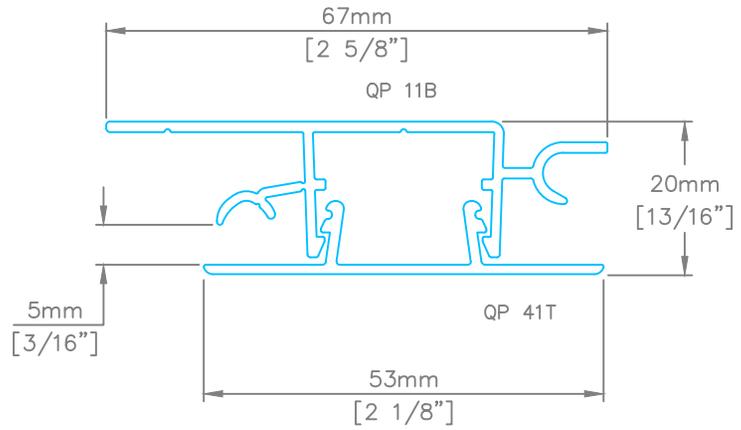
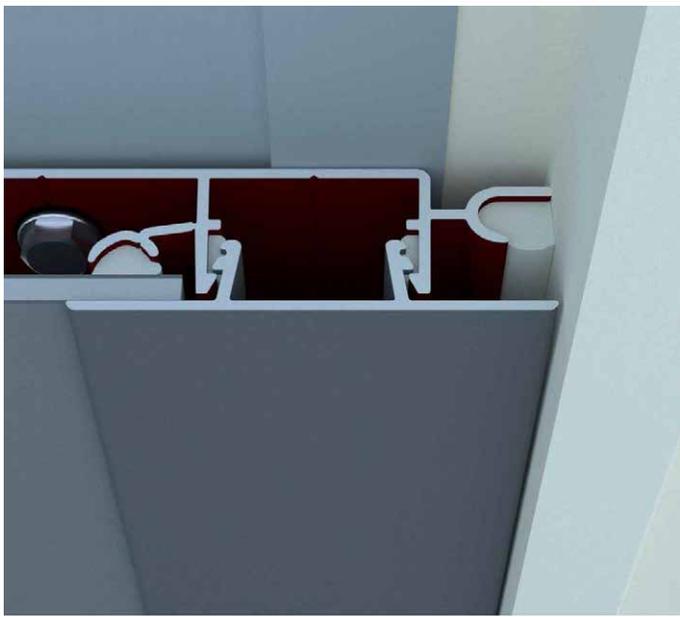
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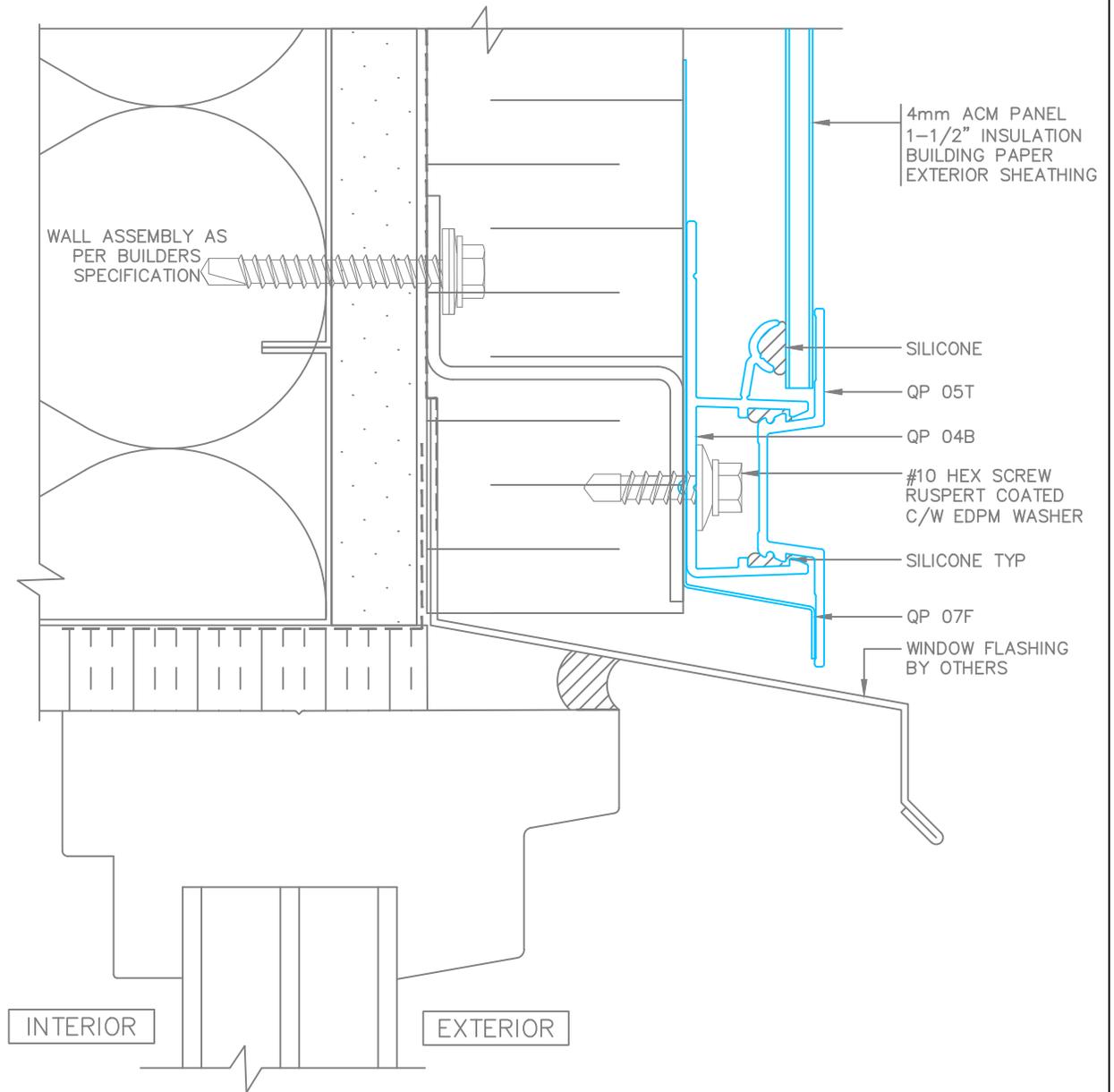
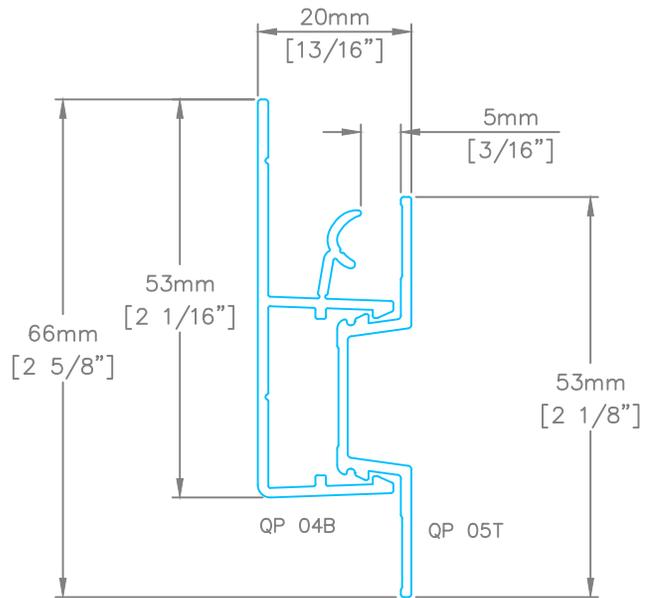
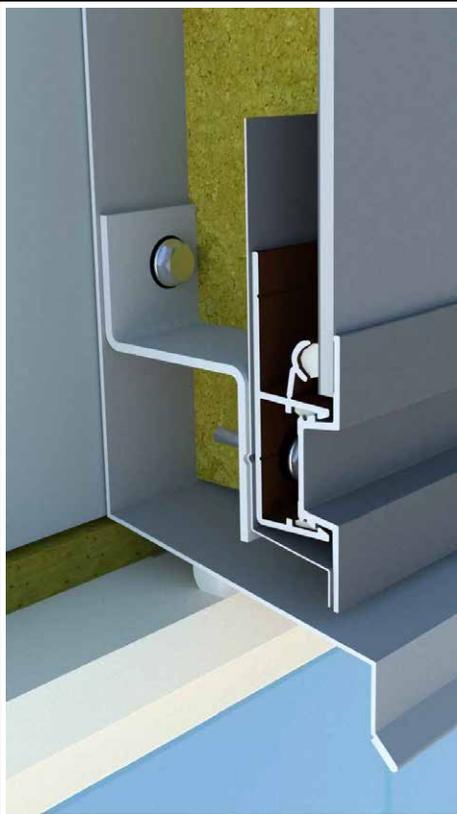
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DATE	AUG2023	QP2.2b
DRWN BY	HJ/DDG	



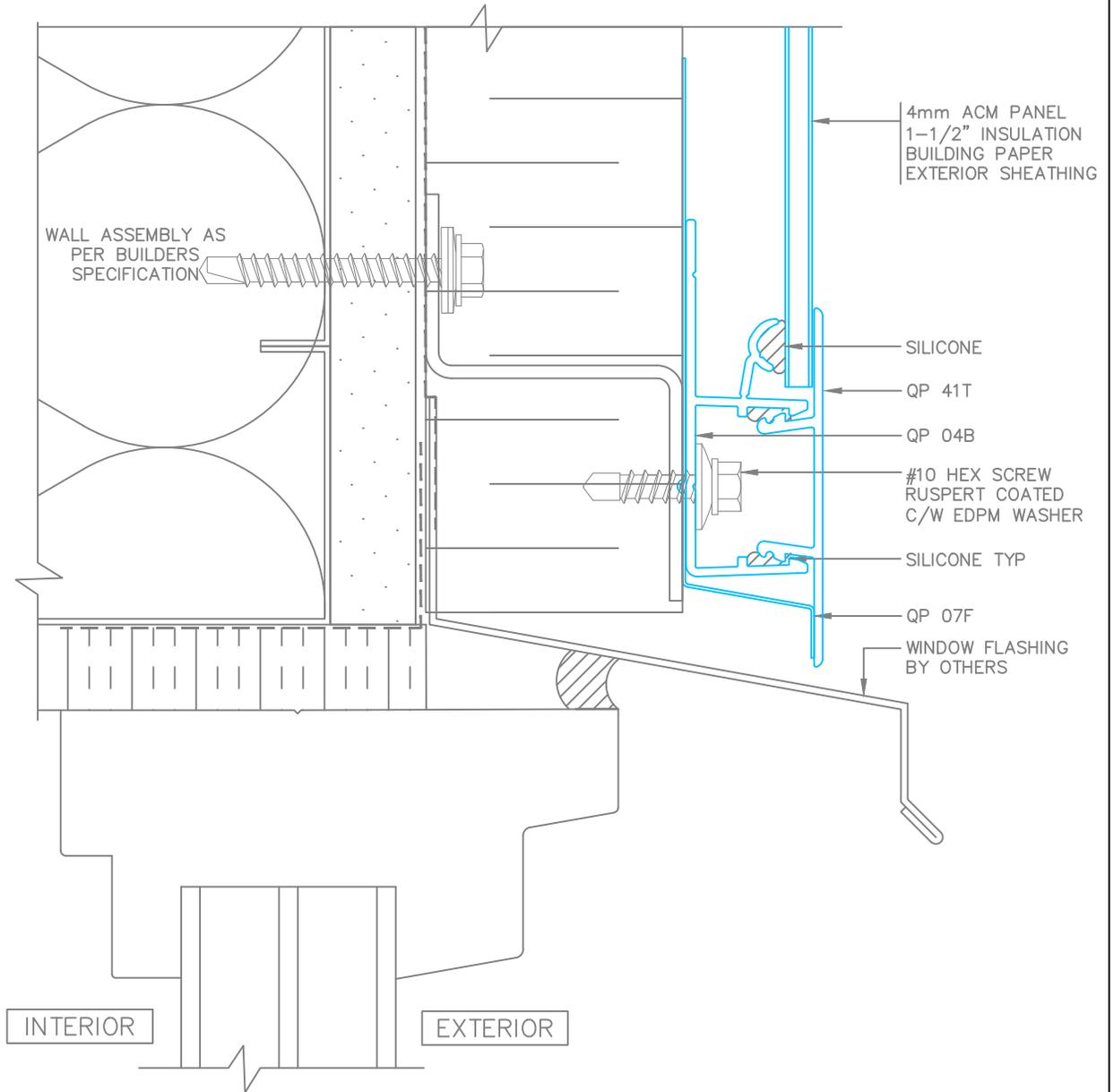
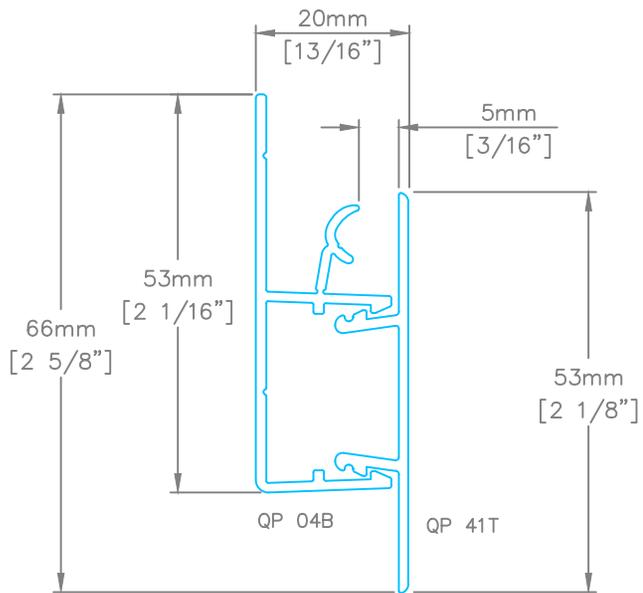
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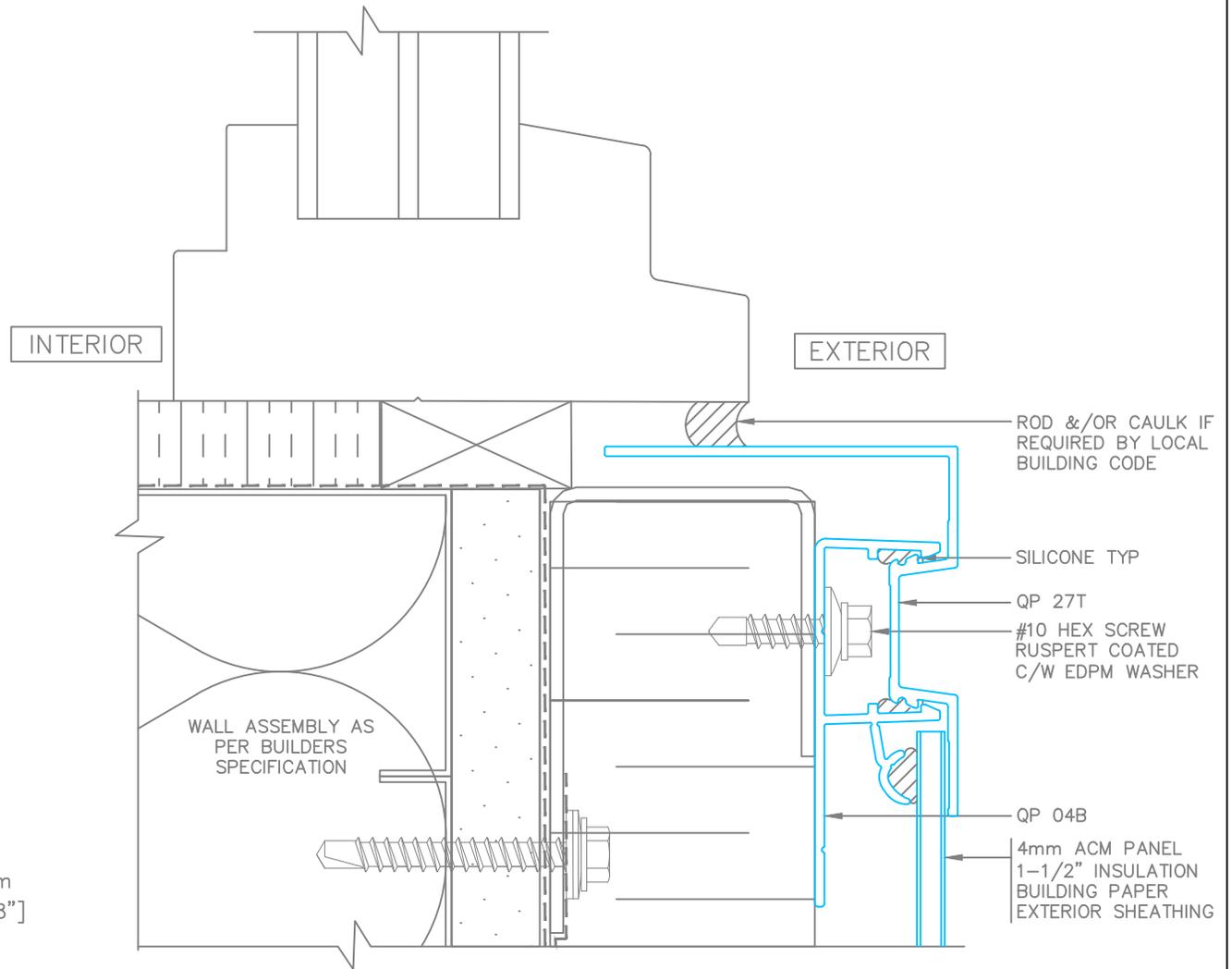
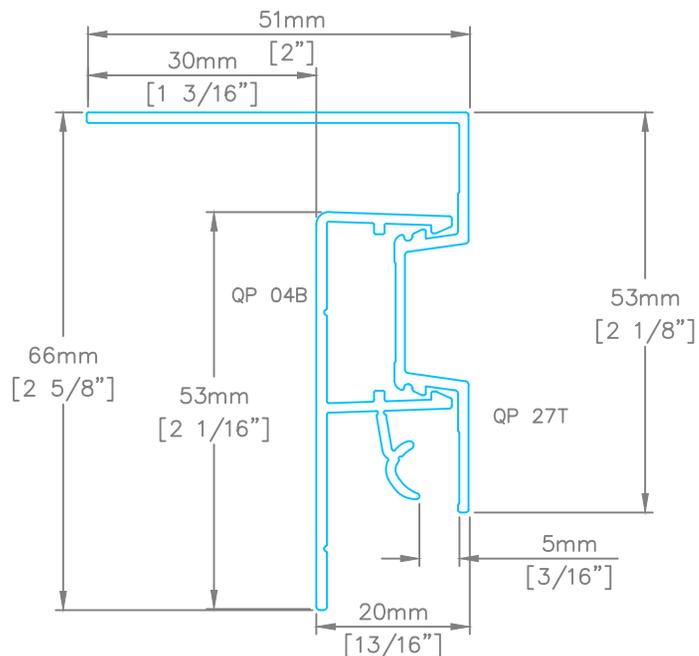
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	DRWN BY	HJ/DDG	



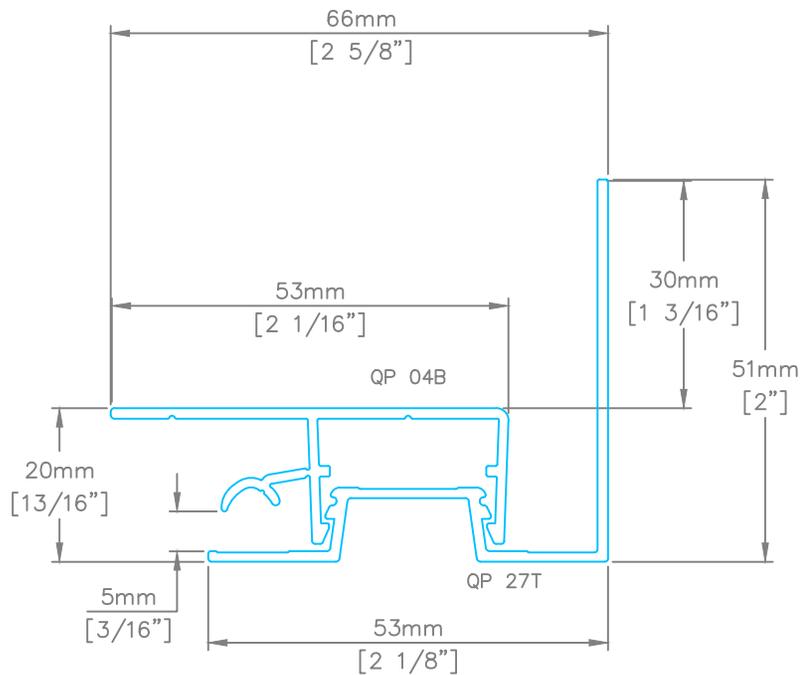
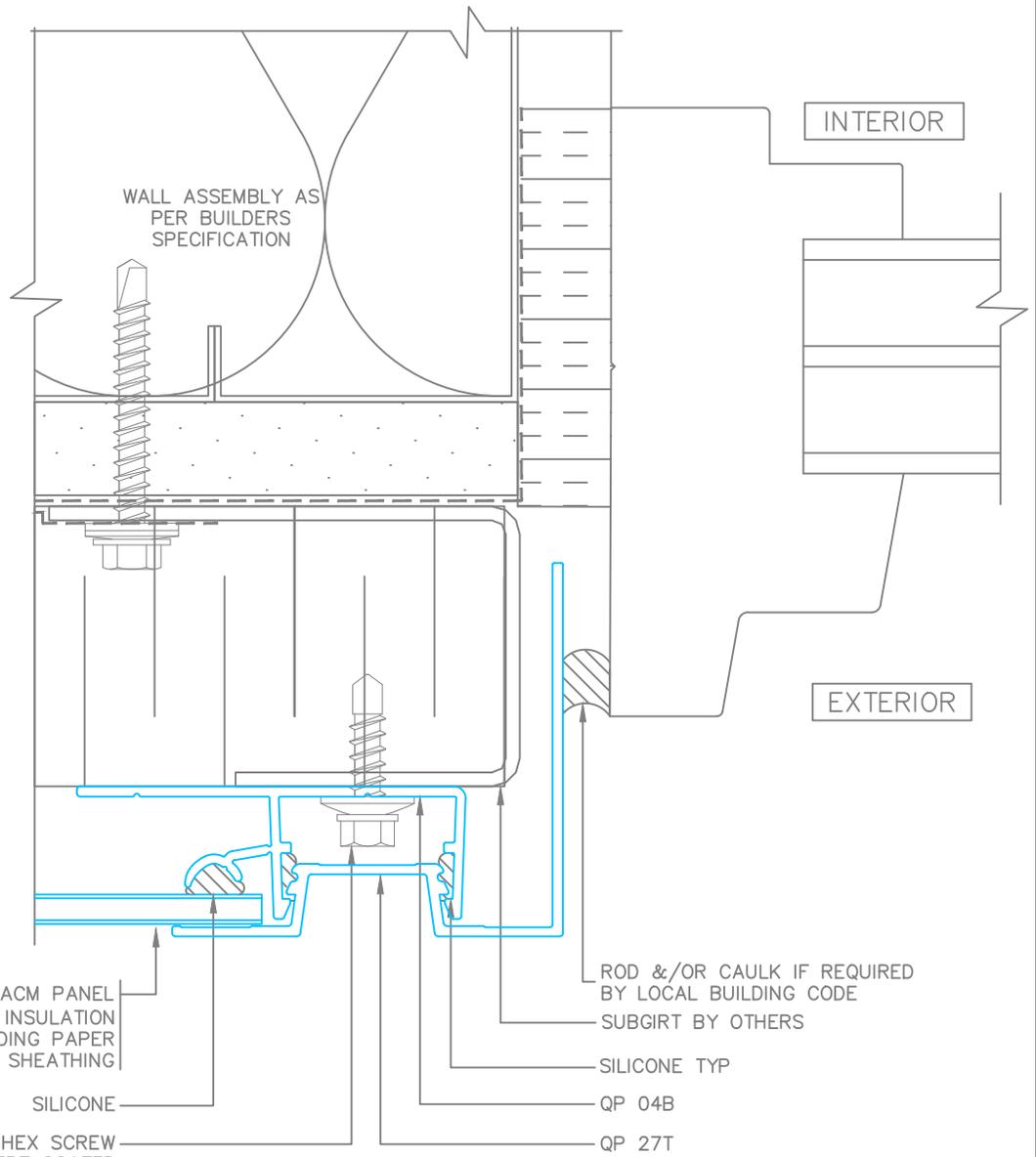
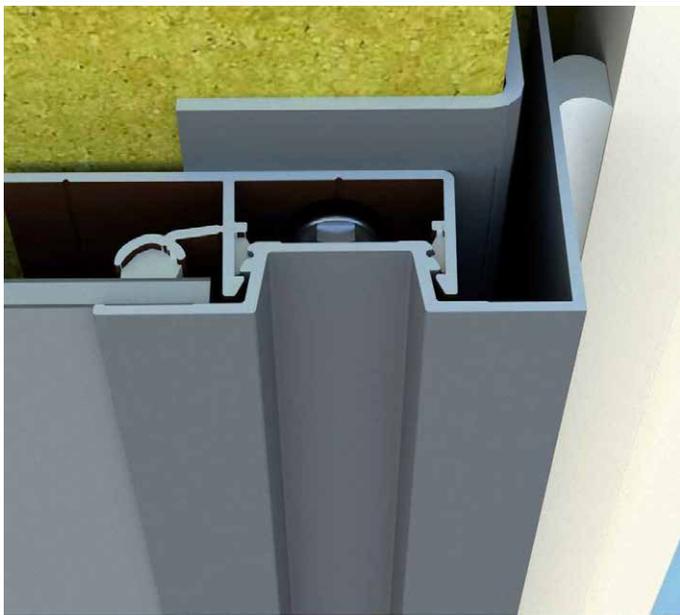
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	DATE	AUG2023	QP2.4a
	DRWN BY	HJ/DDG	



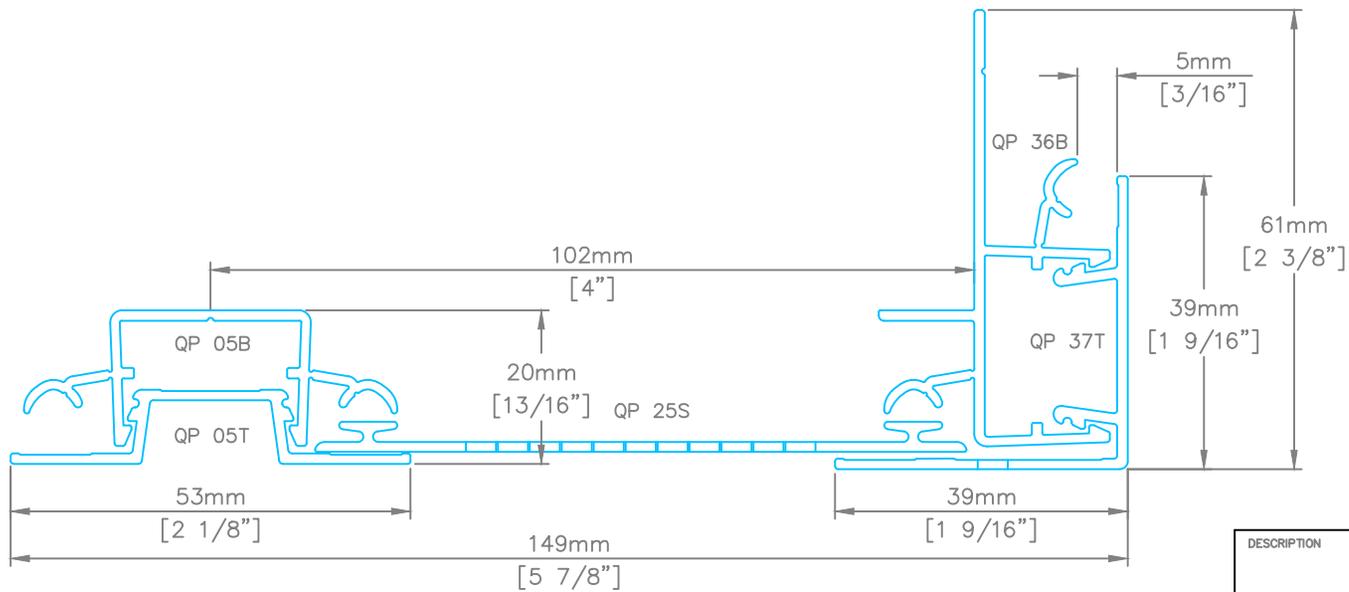
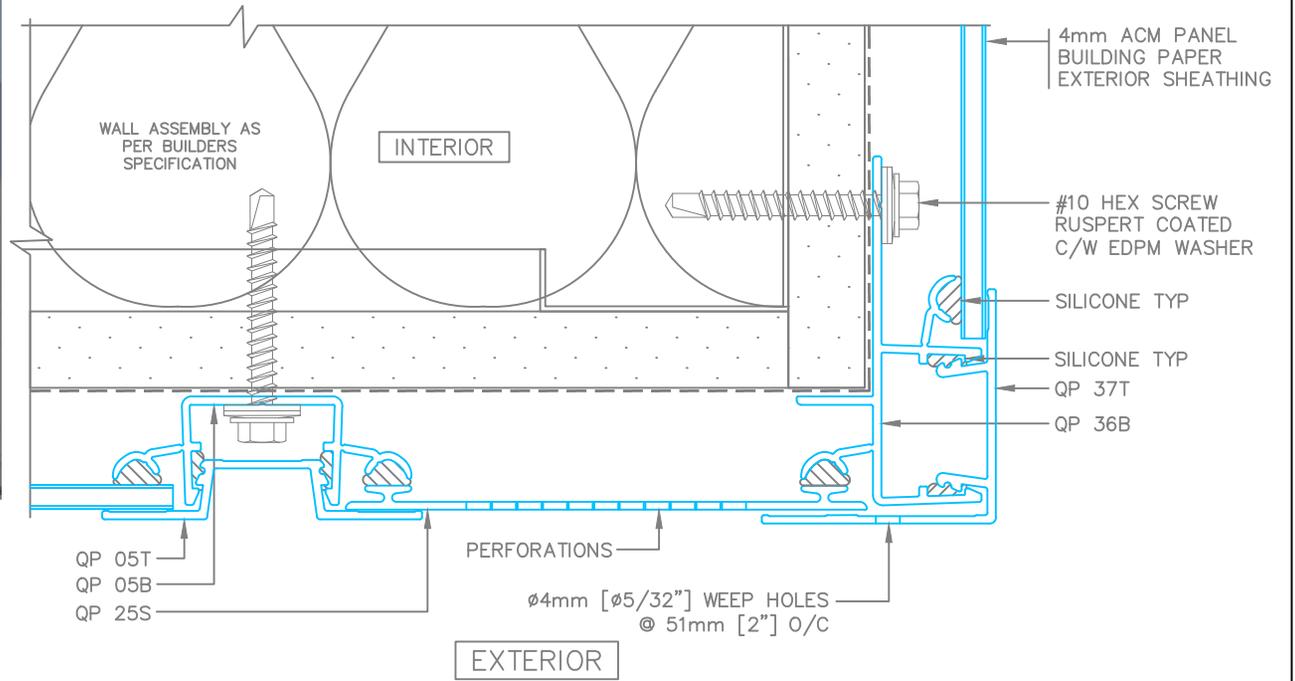
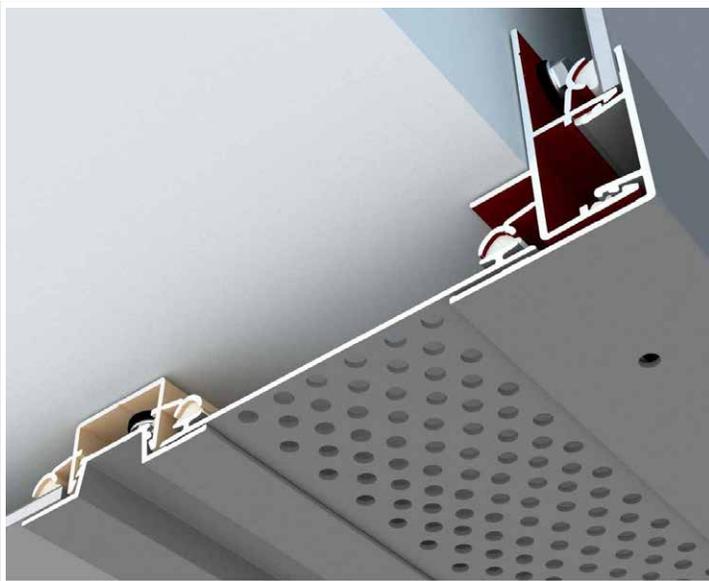
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	DATE	AUG2023	QP2.4b
	DRWN BY	HJ/DDG	



DESCRIPTION			
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	SCALE	NTS	DRAWING NUMBER
	DATE	AUG2023	QP2.5
	DRWN BY	HJ/DDG	

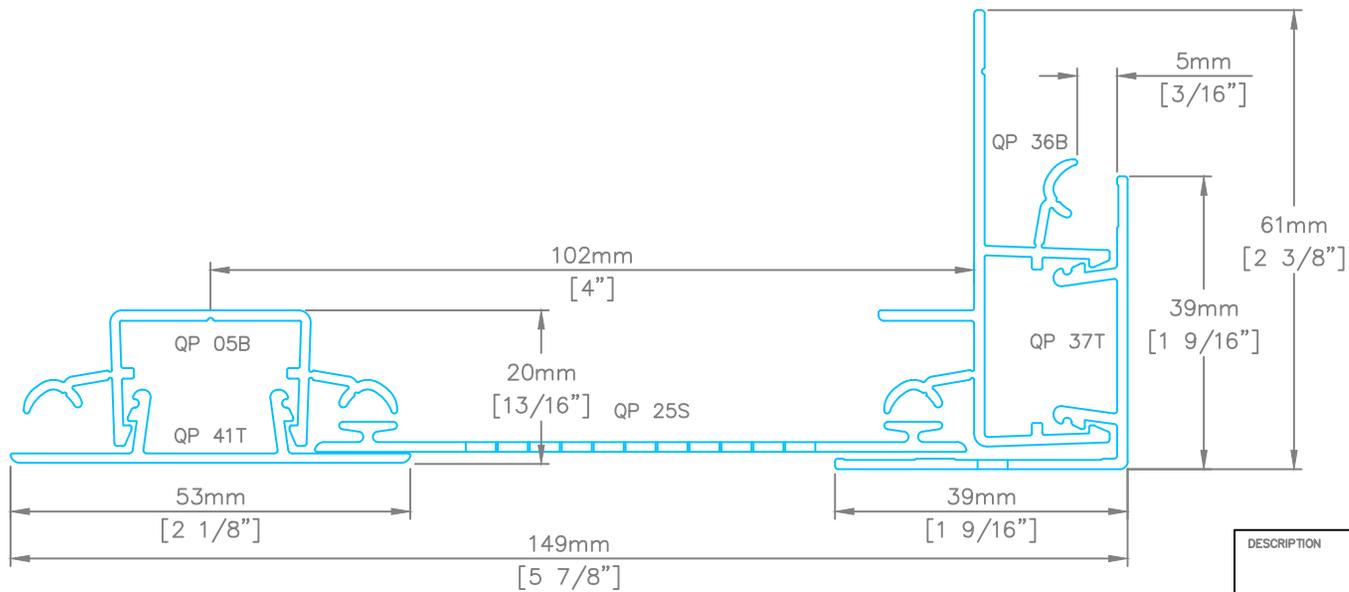
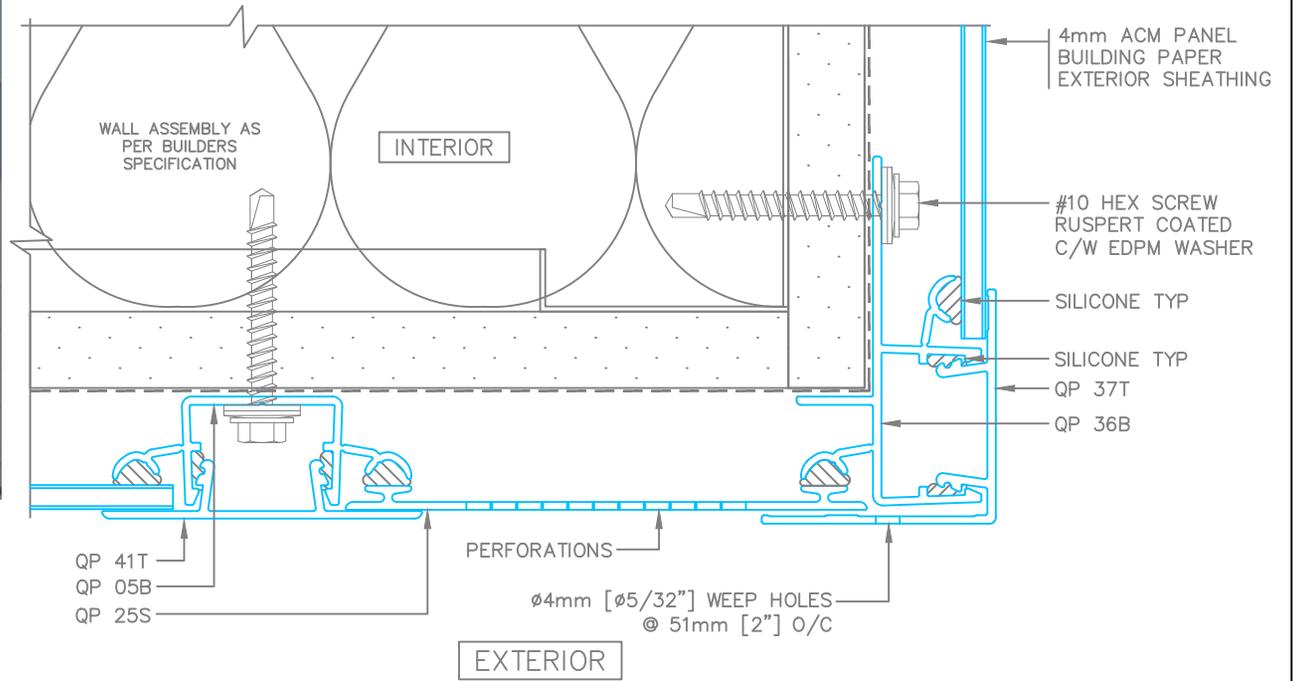
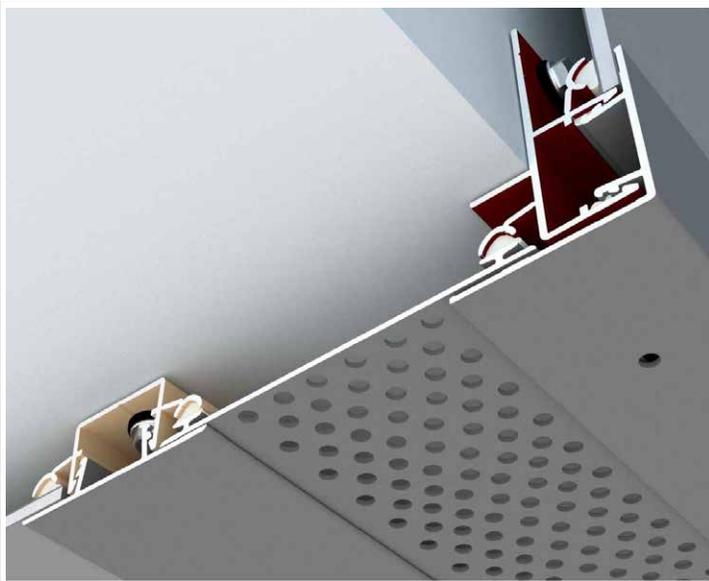


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	DATE	AUG2023	QP2.6
	DRWN BY	HJ/DDG	



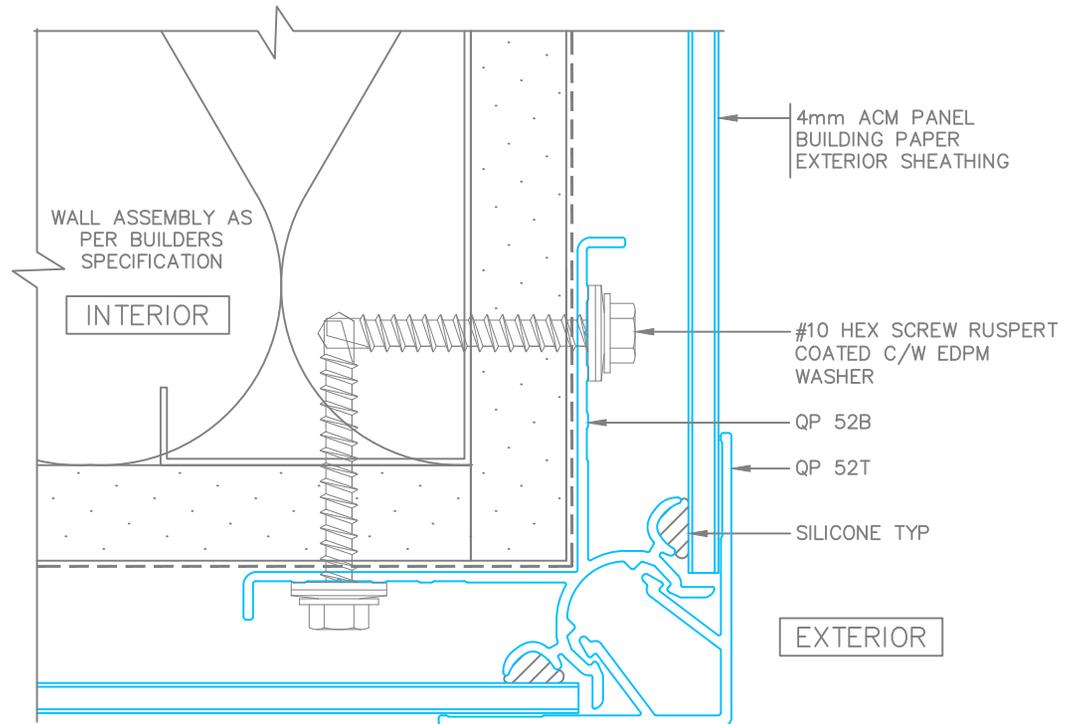
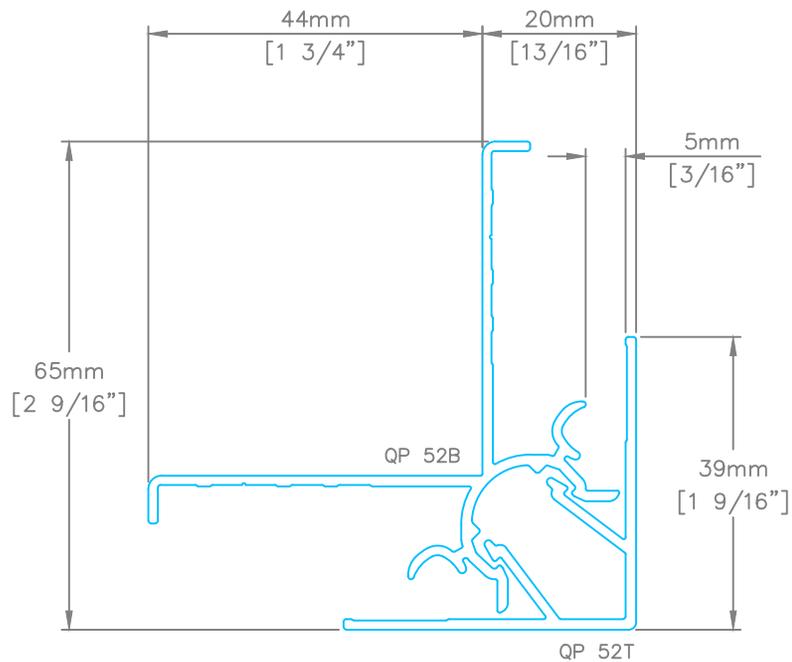
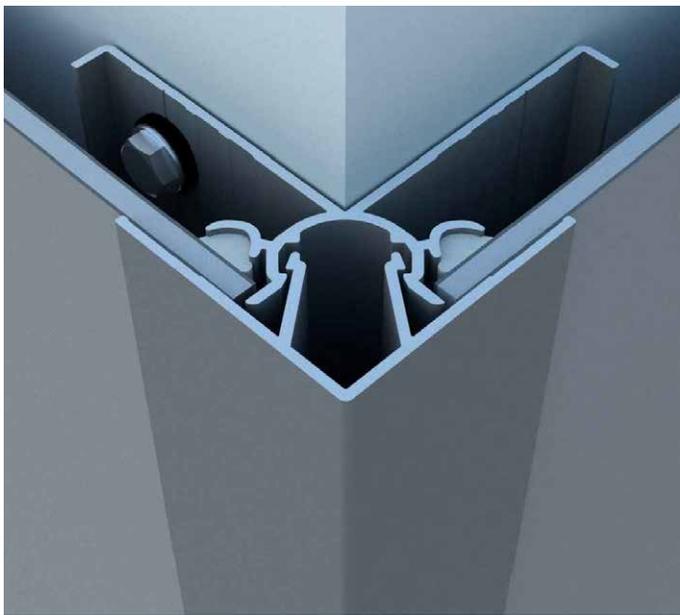
7.7 in²/ LIN FT
163.3 cm²/ LIN m
NET FREE AIR SPACE

DESCRIPTION			
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	SCALE	NTS	DRAWING NUMBER
	DATE	AUG2023	QP3.1a
	DRWN BY	HJ/DDG	

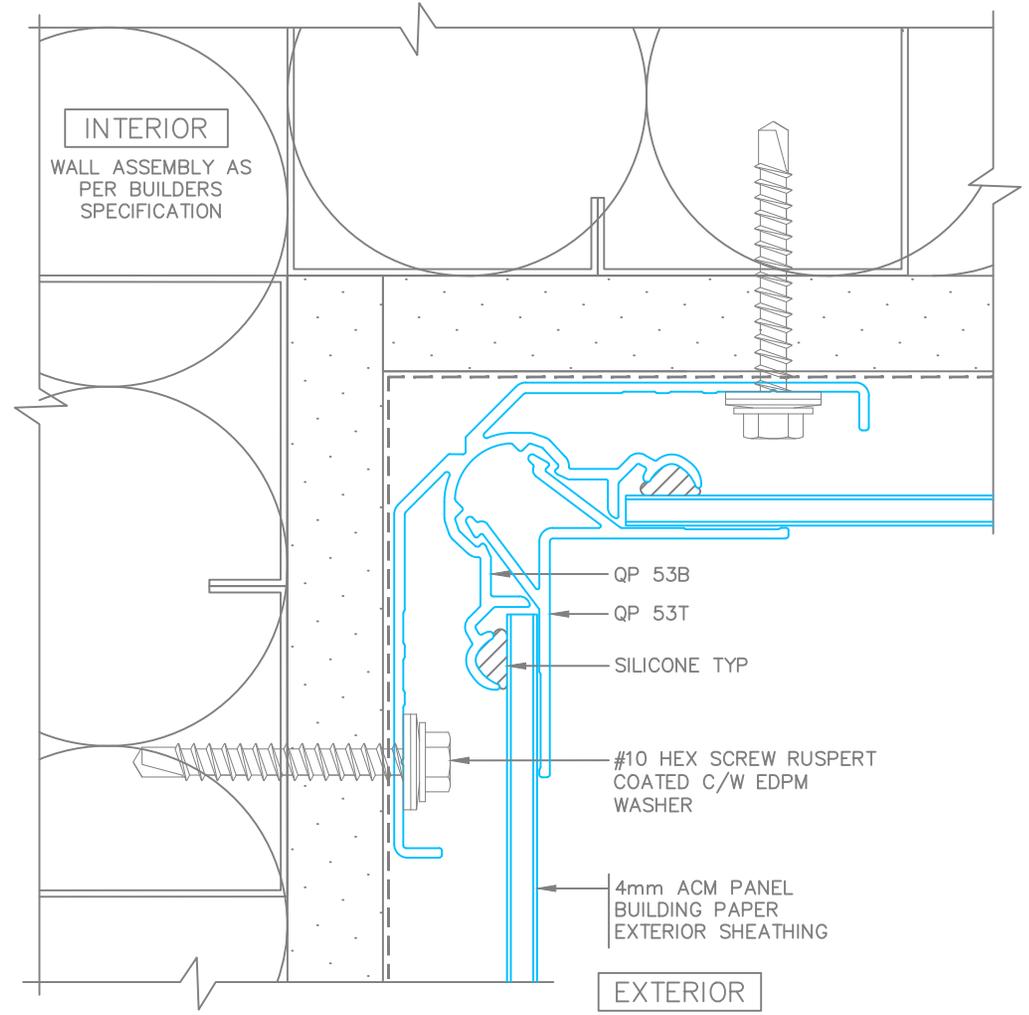
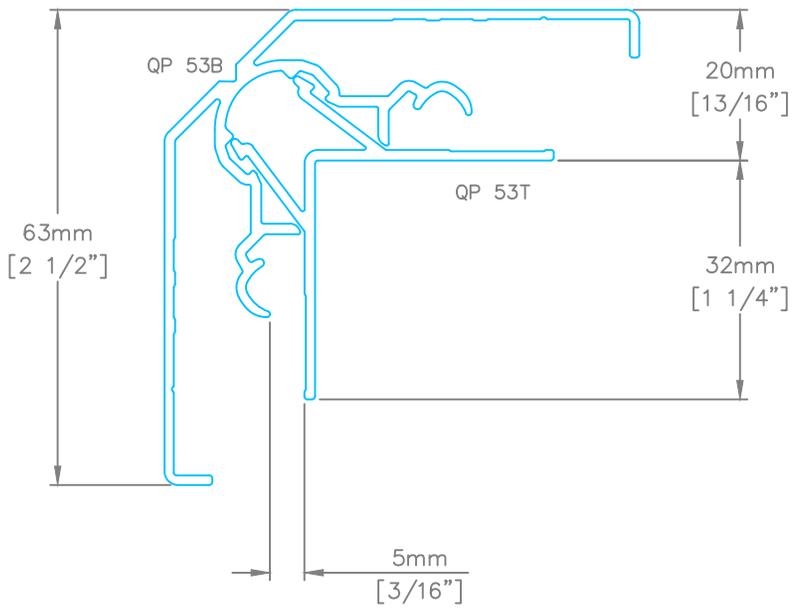
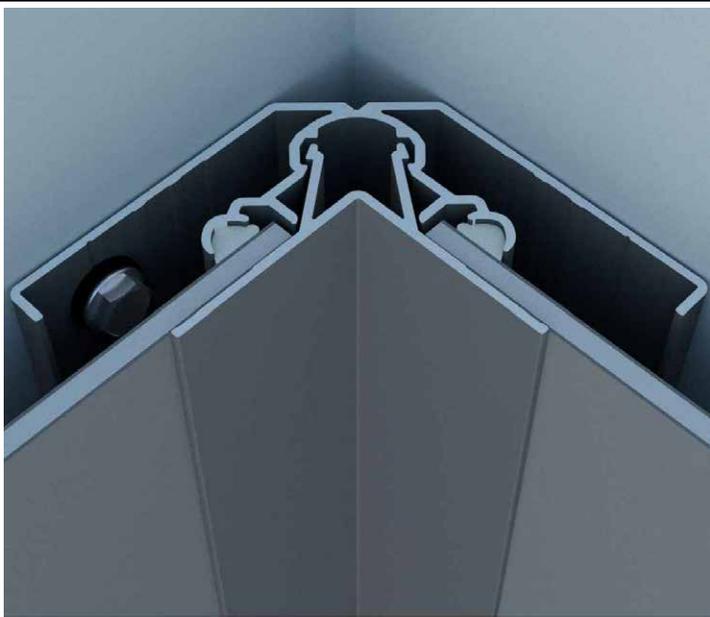


7.7 in²/ LIN FT
163.3 cm²/ LIN m
NET FREE AIR SPACE

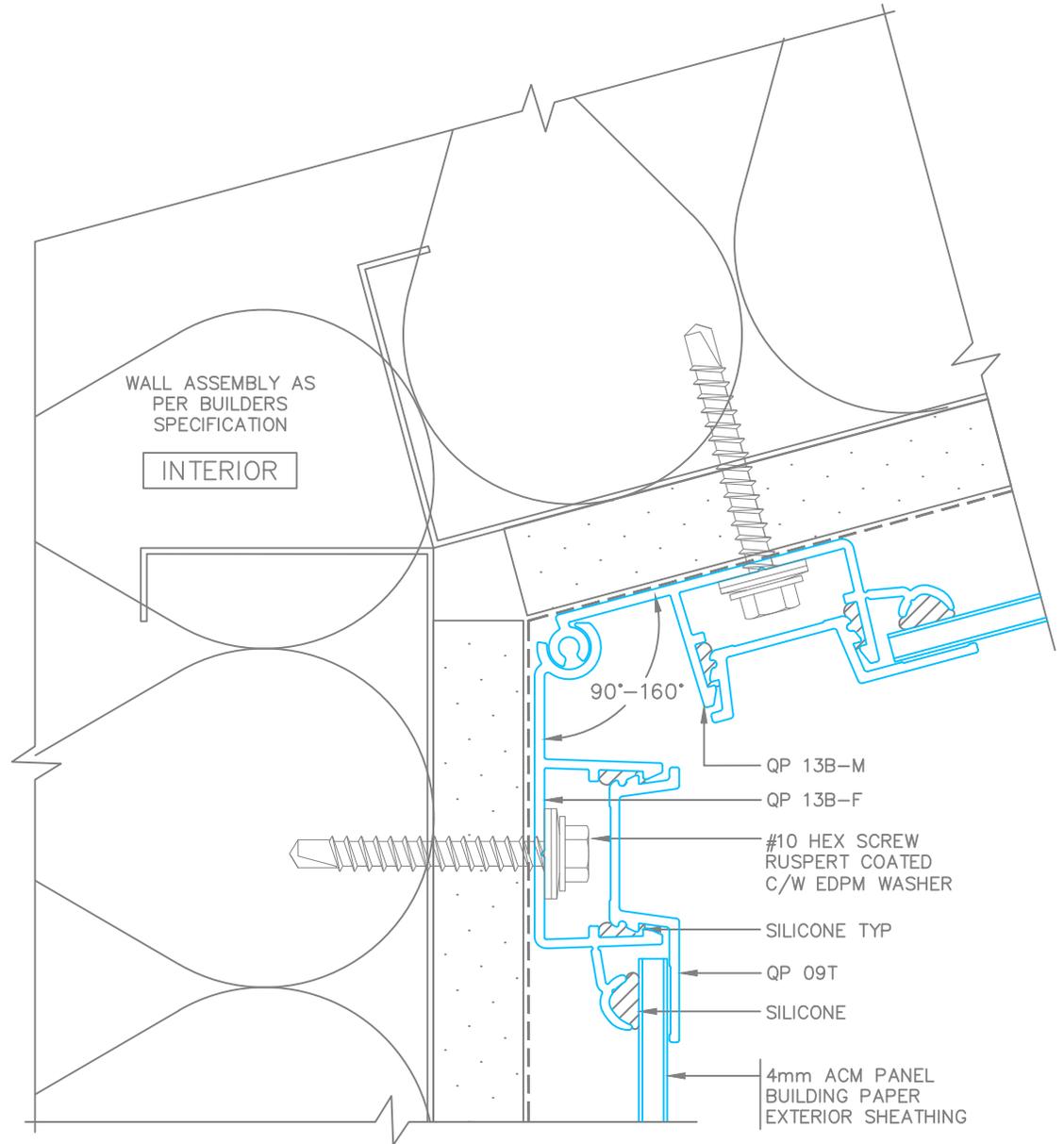
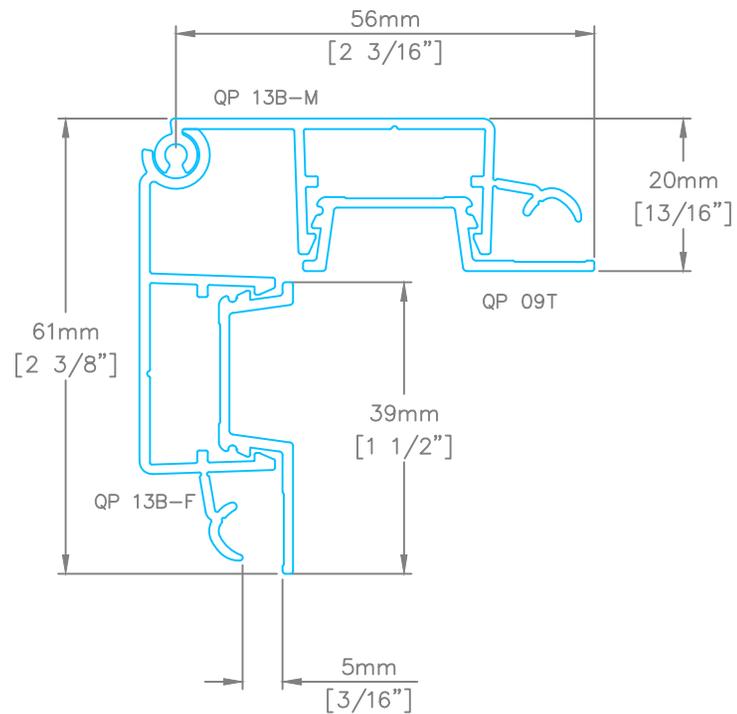
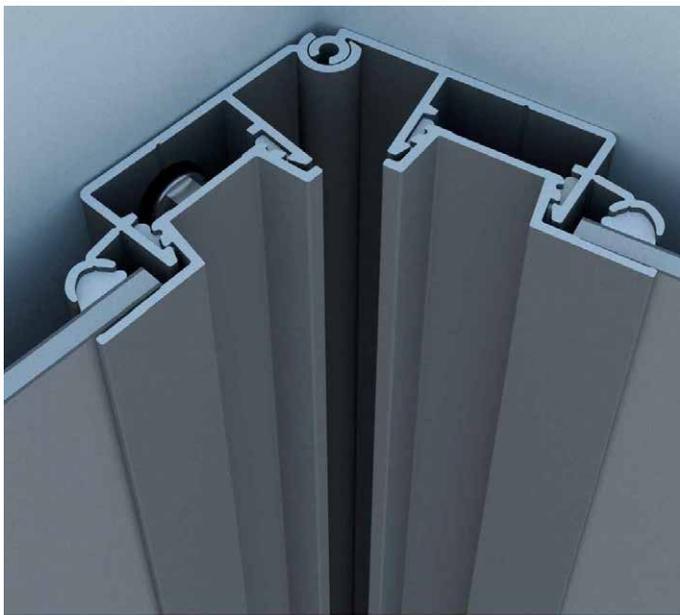
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	DRWN BY	HJ/DDG	



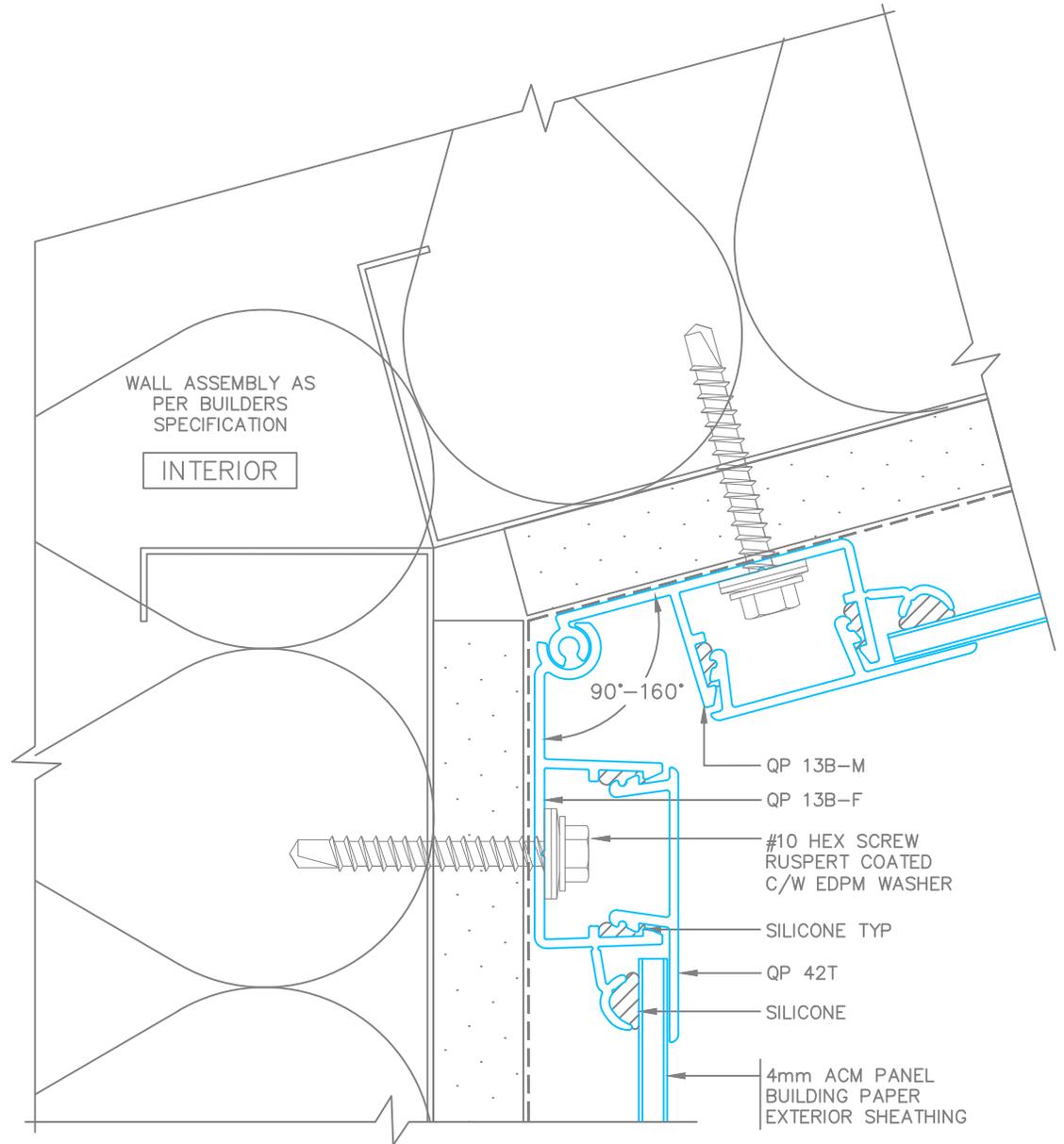
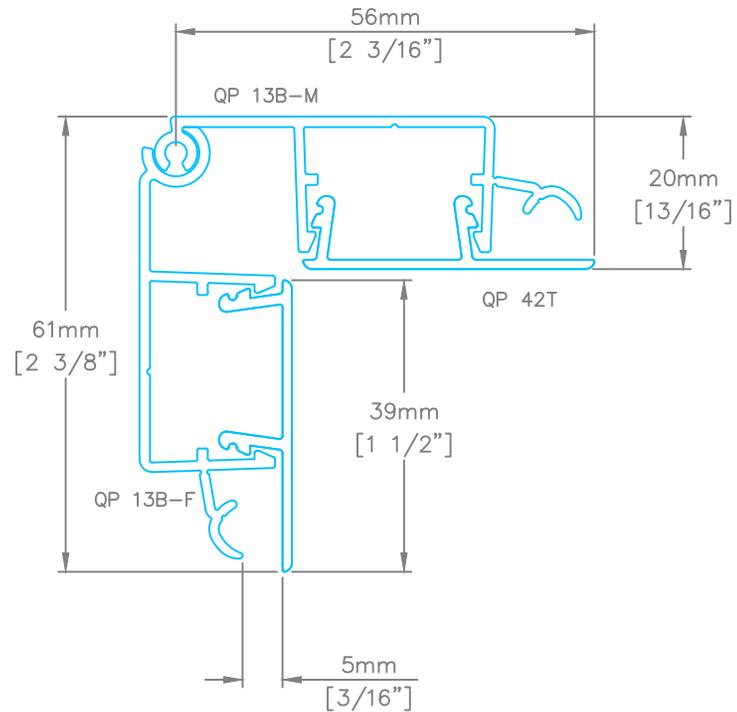
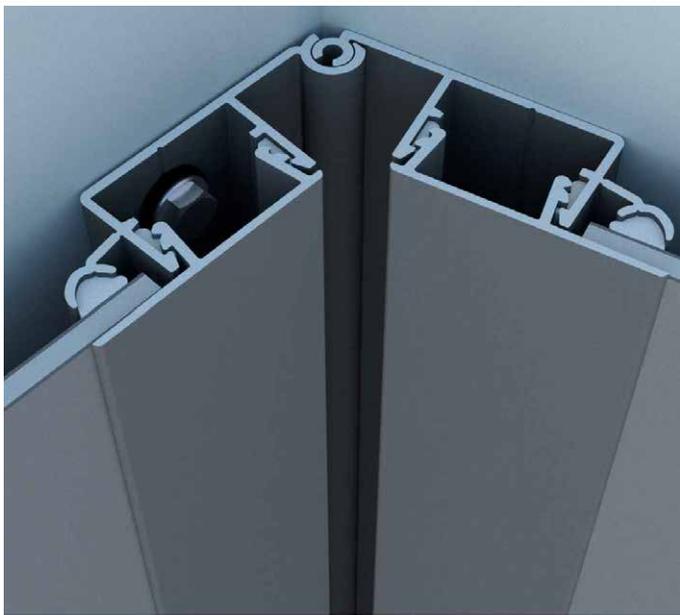
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	DATE	AUG2023	QP3.2
	DRWN BY	HJ/DDG	



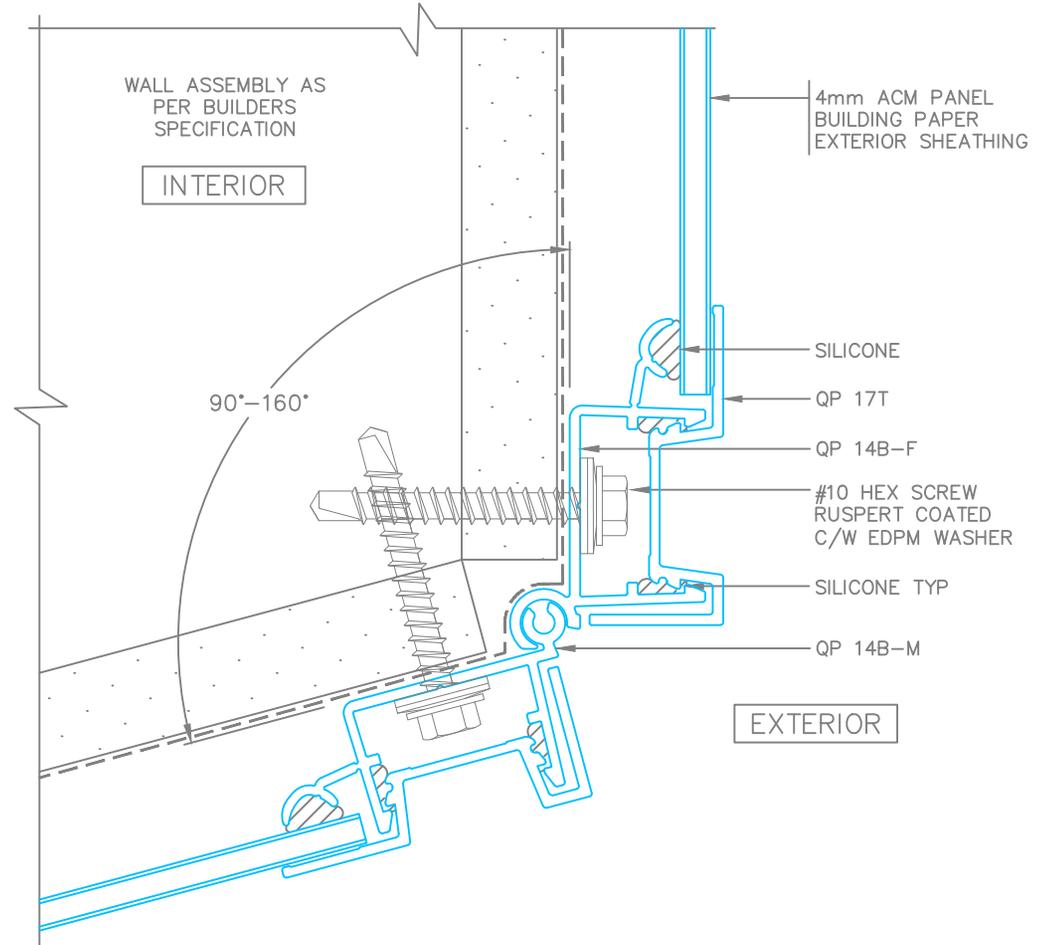
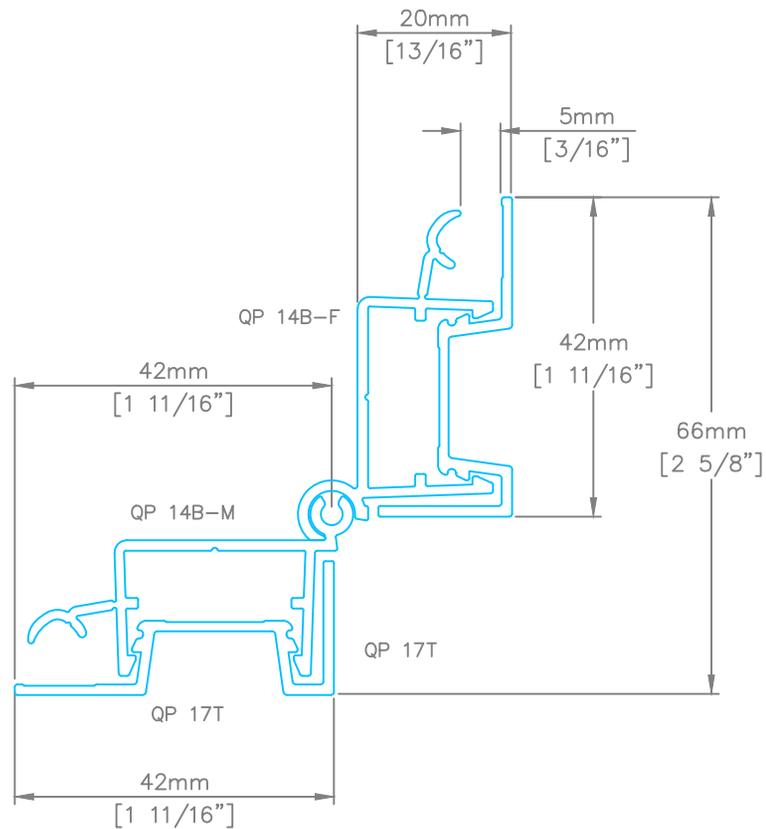
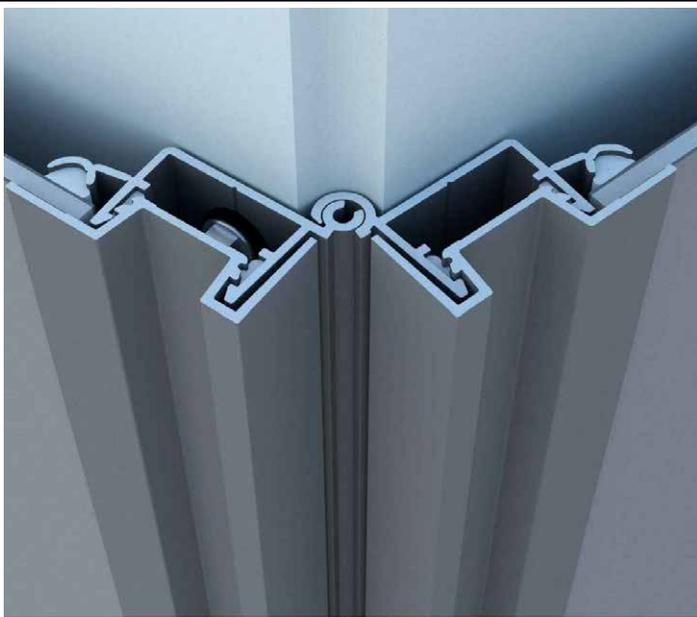
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	DRWN BY	HJ/DDG	



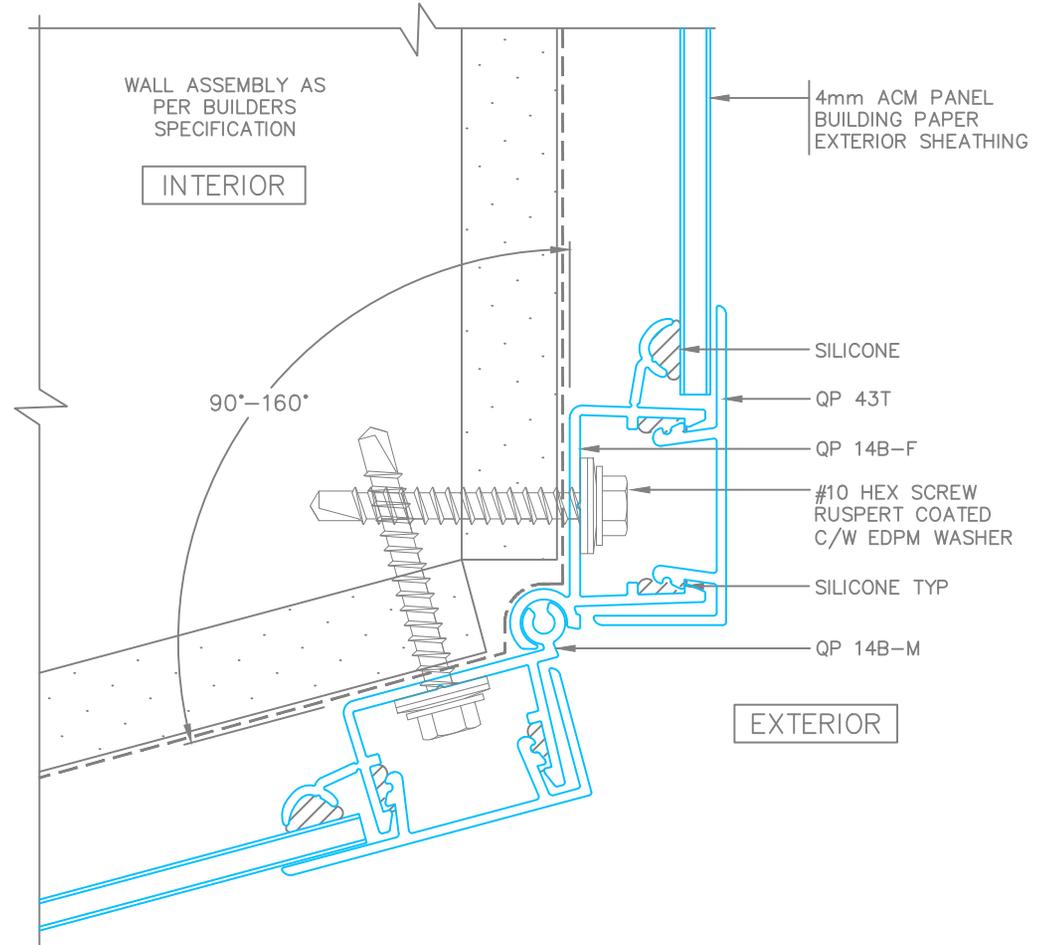
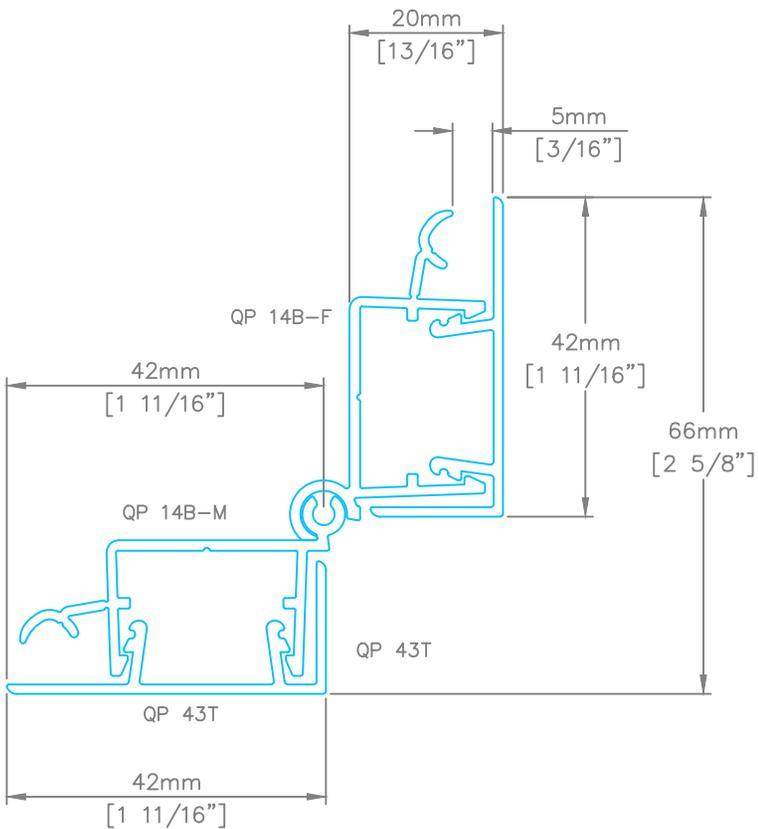
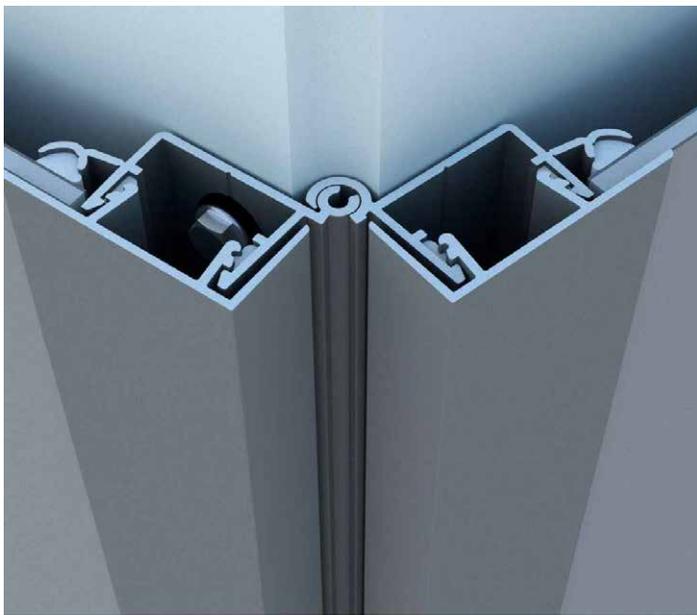
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	DATE	AUG2023	QP3.4a
	DRWN BY	HJ/DDG	



DESCRIPTION			
ABSOLUTELY MULTI-ANGLE INSIDE CORNER DETAIL			
	SCALE	NTS	DRAWING NUMBER
	DATE	AUG2023	QP3.4b
	DRWN BY	HJ/DDG	



DESCRIPTION			
REVEAL MULTI-ANGLE OUTSIDE CORNER DETAIL			
	SCALE	NTS	DRAWING NUMBER
	DATE	AUG2023	QP3.5a
	DRWN BY	HJ/DDG	



DESCRIPTION			
ABSOLUTE MULTI-ANGLE OUTSIDE CORNER DETAIL			
	SCALE	NTS	DRAWING NUMBER
	DATE	AUG2023	QP3.5b
	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-faced composite wall panels.
 2. Attachment Systems: For rain screen type panel system according to custom design indicated on the Drawings.
 - a. Aluminum extrusions, supports, anchors, fasteners, and sealants required.

1.3 REFERENCES

- A. General: The publications listed below 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 2605, Voluntary Specification, Performance Requirements, and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- C. ASTM (ASTM):
1. ASTM B209/B209M, Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate. 2. ASTM B221/B221M, Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
 2. ASTM D1781, Standard Test Method for Climbing Drum Peel for Adhesives.

3. ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.
 4. ASTM E330, Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- D. National Association of Architectural Metal Manufacturers (NAAMM):
1. NAAMM MFM, Metal Finishes Manual.
- E. South Coast Air Quality Management District (SCAQMD):
1. SCAQMD Rule #1168, Adhesive and Sealant Applications, including most recent amendments.
- F. US Green Building Council LEED v4.1
- G. Preinstallation Conference: Prior to installation commencing at a date and time acceptable to the Owner [and the Consultant],
1. Location: Project site, at date and time acceptable to the Owner and the Consultant.
 2. Attendees: At minimum, the Contractor, Installer, and trades requiring coordination with the work.
 3. 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. Flashings: For wall penetrations, openings.
 - f. Governing regulations and requirements for insurance, and authorities having jurisdiction.
 - g. Temporary protection; during and after installation.
 - h. Procedures for damaged panel 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. Includes, but is not limited to, construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal-faced composite wall panel and accessory.
 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: For metal-faced composite wall panels

- b. Details: Edge conditions, joints, panel 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 metal-faced composite wall panels 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 [152.4mm] long strips of material matching the appearance of metal panels adjacent to joint sealants.
- E. Delegated-Design Submittal: For metal panel assembly indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- F. Exterior Wall Certification: Submit manufacturer's certification that exterior wall panels, as designed in the assemblies indicated on the Drawings, has been tested to meet the requirements of NFPA 285 and passed.
- G. Field quality-control reports.
- H. LEED 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 employer 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 metal panel through one source from a single manufacturer.
- D. Fire Test Performance for Exterior Wall: Passes NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.
- E. Preconstruction Compatibility and Adhesion Testing: Submit to joint-sealant manufacturers, for testing indicated below, samples of materials that will contact or affect joint sealants.
 - 1. Use manufacturer's standard test methods to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
- F. 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, panel 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 the 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. Handle components, sheets, aluminum composite wall panels, and other manufactured items according to Manufacturer's instruction 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 wellventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.
 - 1. Unload, and store metal-faced composite wall panels in a manner to prevent bending, warping, twisting, and surface damage.
 - 2. Metal-faced composite wall panels:
 - 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. Storage space is not to exceed 120 degrees F (67 degrees C).
 - e. Handling: Prevent damage to surfaces, edges, and ends of wall panels. Reject and remove damaged Material: from site.
- C. Retain strippable protective covering on composite wall panel for period of panel 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 metal panel fabrication and indicate measurements on Shop Drawings.
 - 1. 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 panels. 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 composite panel 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. Panel System: 15-Year Limited Product Warranty against faults and defects in materials and workmanship attributed to the manufacturer. The panel system 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. 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 PVdF Finish: 20 years from date of Substantial Completion.
- C. Additional Owner Rights: The warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Engage Building Products Phone: 1-877-973-8746v URL: www.engagebp.com; Email: info@engagebp.com
 - 1. Basis of Design: ACM QuickPanel® System as Manufactured by Engage Building Products.
 - 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 COMPOSITE MATERIAL WALL PANELS

- A. General: Aluminum-faced composite wall panels fabricated from two metal facings bonded to solid, extruded fire retardant core.
1. Aluminum Face Sheets:
 - a. Thickness: 0.020 inch (0.508 mm).
 - b. Aluminum Alloy: 3000 Series or equivalent.
- B. Overall Panel Thickness: 0.157 inch (4 mm).
- C. Fire Resistant (FR) Core: Tested in accordance with ASTM E84, Class A building material rating. NFPA 285 Testing Compliant.
1. With Center Panel Joint: Flame Spread: 15. Smoke Developed Rating: 30.
 2. No Center Panel Joint: Flame Spread: 0. Smoke Developed Rating: 0.
 3. Bond Integrity: Tested in accordance with ASTM D1781.
 - a. When simulating resistance to panel delamination, there is to be no adhesive failure of the bond between the core and the skin, or cohesive failure of the core itself below the following values:
 - 1) Peel Strength: FR Core:
 - a) As Manufactured: 22.5 inch-lbs per inch` (0.100 N·per mm).
 - b) After 21 Days Soaking in Water at 70 degrees F (21 degrees)
22.5 inch-lbs per inch` (0.100 N·per mm).
 - c)
- D. Tolerances:
1. Width: ±0.08 inch (±2.03 mm).
 2. Length: ±0.16 inch (±4.06 mm).
 3. Panel Bow: Maximum 0.8 percent of any 72 inch (1829 mm) panel dimension.
 4. Squareness: Maximum 0.20 inch (5.08 mm).
 5. Flatness: Maximum deviation from panel flatness shall be 1/8 inch (3 mm) in 5 feet (1524 mm) on panel in any direction for assembled units (non-accumulative, no oil-canning).
- E. Attachment Assembly Components: Formed from extruded aluminum.
1. Include manufacturer's standard perimeter extrusions, panel stiffeners, panel clips and anchor channels.
- F. Attachment Assembly: Manufacturer's standard rainscreen system.

2.3 MATERIALS AND ACCESSORIES

- A. Aluminum: Aluminum Extrusions: ASTM B221/B221M, Alloy 6063-T6.
- B. Rain Screen Furring Spacers: UV resistant and ROHS compliant rigid PVC compound.
- C. Perforated Vented & Non Vented Through-Wall Flashing: Provide 0.013 inch (.33 mm) painted 2 sides galvanized steel.

- D. Flashing and trim formed from same material as metal composite material panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers.
 - 1. Match material, finish, and color as facings of adjacent panels, unless otherwise indicated.
- E. Fasteners: Weather sealed screws and .75 inch [19 mm] 18g brad nails.
- F. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal composite material panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.
- G. Panel Sealants: ASTM C920; elastomeric silicone sealant; of type, grade, class, and use classifications required to seal joints in metal composite material panels and remain weathertight; and as recommended in writing by metal composite material panel manufacturer.
 - 1. Sealants Within Panel System: Provide Tremco Spectrem 1 Sealant or manufacturer approved equal.
 - 2. Comply with requirements of Section 079200 - JOINT SEALANTS.

2.4 FINISHES

- A. Comply with NAAMM MFM for architectural metal products for recommendations for applying and designating finishes.
 - 1. Aluminum Finishes: Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. PVDF Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
- C. FEVE Fluoropolymer: AAMA 2605. One-coat fluoropolymer finish containing 100 percent fluorinated ethylene vinyl ether resin in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
- D. Color: [As selected by Owner from manufacturer's standard finish guide] [Custom color matched].

2.5 WALL PANEL SYSTEM DESCRIPTION

- A. Panels: FR (fire-rated mineral core) panels with high performance PVdF or FEVE coatings.
 - 1. Panel Platform: 6063-T6 extruded aluminum.
 - a. Back Plate Profiles: [vertical,] [horizontal,] [outside corner,] [inside corner,] [multi-angle inside corner,] [multi-angle outside corner,] [vertical material transition,] [outside corner material transition,] [soffit,] [alternate soffit,] [horizontal wall penetration,] [vertical wall penetration,] [base section,] [window jamb,] [and] [window sill].
 - b. Inside corner.

- c. Top Caps: With high performance PVdF PPG Duranar coatings.
- d. Rainscreen Furring Spacers.
- e. Brake Metal Flashings.
- f. Perforated Vented Through-Wall Flashing.
- g. Concealed Sealant.
- h. Concealed Weather Sealed Fasteners.
- i. Adhesive Tape,

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.
- B. 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, metal-faced composite wall panel supports, and other conditions affecting performance of the work.
 - 2. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal-faced composite wall panel manufacturer.
 - 3. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking, and that installation is within flatness tolerances required by metal-faced composite wall panel manufacturer.
 - 4. Verify that weather-resistant sheathing paper has been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
 - 5. Examine roughing-in for components and systems penetrating metal-faced composite wall panels to verify actual locations of penetrations relative to seam locations of panels before panel installation.
 - 6. 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. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal composite material panel manufacturer's written recommendations.

3.3 INSTALLATION OF COMPOSITE WALL PANEL

- A. General: Install metal-faced composite wall panels in accordance with manufacturer's written instructions in orientation (note Metallic and Mica finished panels are directional), sizes, and locations indicated on the Drawings. Install panels perpendicular to girts and sub-girts unless otherwise indicated.
 - 1. Install panel system in accordance with manufacturer's installation instructions and drawings.

2. Ensure continuity of building envelope air barrier and vapor.
 3. Shim or otherwise plumb substrates receiving metal-faced composite wall panels.
 4. Anchor panels securely in accordance with reviewed shop drawings to allow for necessary thermal movement and structural support.
 5. Conform to panel fabricator's instructions for installation of concealed fasteners.
 6. Do not install component parts that are observed to be defective, including, but not limited to, warped, bowed, dented, scraped, and broken members.
 7. Do not cut, trim, weld, or braze component parts during erection in manner which would damage finish, decrease strength, or result in visual imperfection or failure in performance. Return component parts, which require alteration to shop for re-fabrication, if possible, or for replacement with new parts.
- B. Fasteners, Aluminum Panels: Use aluminum or stainless-steel fasteners for surfaces exposed to the exterior; use aluminum or galvanized steel fasteners for surfaces exposed to the interior.
- C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal composite material panel manufacturer.
- D. Attachment Assembly, General: Install attachment assembly required to support metal composite material wall panels and to provide a complete weathertight wall system, including subgirts, perimeter extrusions, tracks, drainage channels, panel clips, and anchor channels.
1. Include attachment to supports, panel-to-panel joinery, panel-to-dissimilar-material joinery, and panel-system joint seals.
 2. Do not begin installation until the weather barrier and flashings that will be concealed by metal panels are installed.
- E. Rainscreen Installation: Install using manufacturer's standard assembly with vertical channel that provides support and secondary drainage assembly, draining at base of wall. Notch vertical channel to receive support pins. Install vertical channels supported by channel brackets or adjuster angles and at locations, spacings, and with fasteners recommended by manufacturer. Attach metal composite material wall panels by inserting horizontal support pins into notches in vertical channels and into flanges of panels. Leave horizontal and vertical joints with open reveal.
1. Install wall panels to allow individual panels to be installed and removed without disturbing adjacent panels.
 2. Do not apply sealants to joints unless otherwise indicated.

3.4 ACCESSORY INSTALLATION

- A. Accessories, General: Install accessories with positive anchorage to building and weathertight mounting and provide for thermal expansion. Coordinate installation with flashings and other components.
1. Install components required for a complete metal composite material panel assembly including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal composite material panel manufacturer; or, if not indicated, provide types recommended in writing by metal composite material panel manufacturer.
- B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

1. Install exposed flashing and trim that is without excessive oil canning, buckling, and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in waterproof and weather-resistant performance.
2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (605 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).

3.5 ERECTION TOLERANCES

- A. Maximum variation from plane or location shown on shop drawings shall be .5 inch (13 mm) in 30 feet (9.14 m) of length and up to .75 inch (19 mm) in 300 feet (91.44 m).
- B. Maximum deviation for vertical member shall be 0.10 inch (2.54 mm) in 25 feet (7.62 m) run.
- C. Maximum deviation for a horizontal member shall be 0.10 inch (2.54 mm) in 25 feet (7.62 m) run. D. The maximum offset from true alignment between two adjacent members abutting end to end, in line shall be 0.03 inch (0.76 mm).

3.6 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified independent testing and inspecting agency to perform field tests and inspections and to prepare test reports.
- B. Water-Spray Test: After installation, test area of assembly as directed by Architect for water penetration according to AAMA 501.2.
- C. Manufacturer's Field Service: Engage a factory-authorized service representative inspect completed metal panel installation, including accessories.
- D. Remove and replace metal panels where tests and inspections indicate that they do not comply with specified requirements.
- E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
- F. Prepare test and inspection reports.

3.7 ADJUSTING AND CLEANING

- A. Remove temporary protective coverings and strippable films, if any, as metal-faced composite wall panels are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. On completion of metal-faced composite wall panel installation, clean finished surfaces as recommended by panel manufacturer. Maintain in a clean condition during construction.
- C. After metal-faced composite wall panel installation, clear base drainage channels of obstructions, dirt, and sealant.
- D. Replace metal-faced composite wall panels 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.
- F. Final cleaning shall not be part of the work of this Section.

3.8 PROTECTION

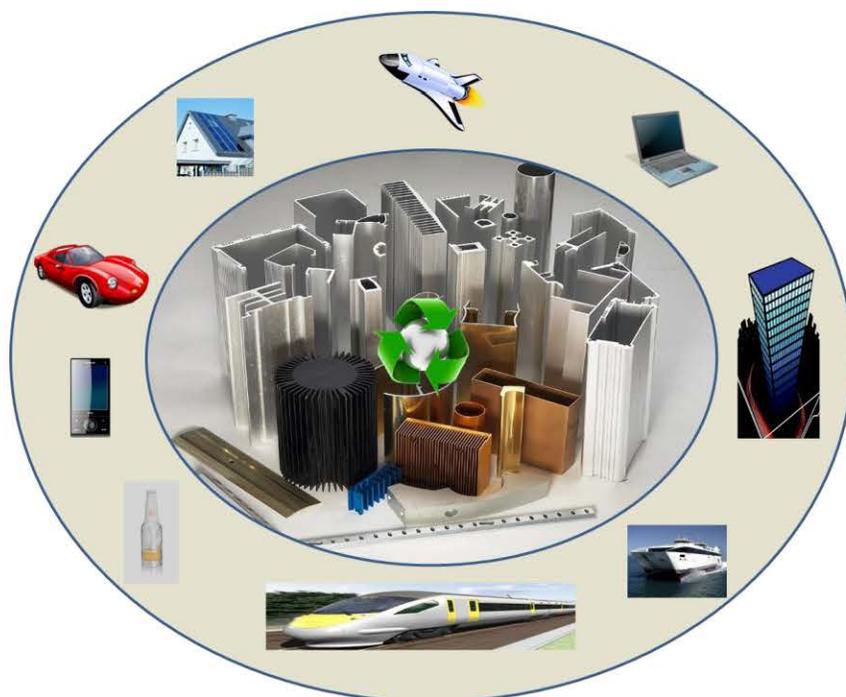
- A. Protect installed products and components from damage during construction.
- B. Repair damage to adjacent materials caused by composite metal building panel installation.

END OF SECTION

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 <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	 Wade Stout, UL Environment	
	 Thomas Gloria, Industrial Ecology Consultants	
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	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	End-of-Life	Credits
		A1-A3	C4	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	End-of-Life	Credits
		A1-A3	C4	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	End-of-Life	Credits
		A1-A3	C4	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	End-of-Life	Credits
		A1-A3	C4	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
Products of Aluminum and Aluminum Alloys

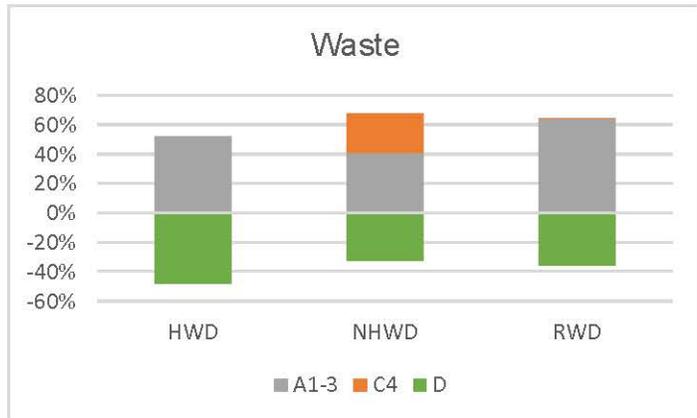
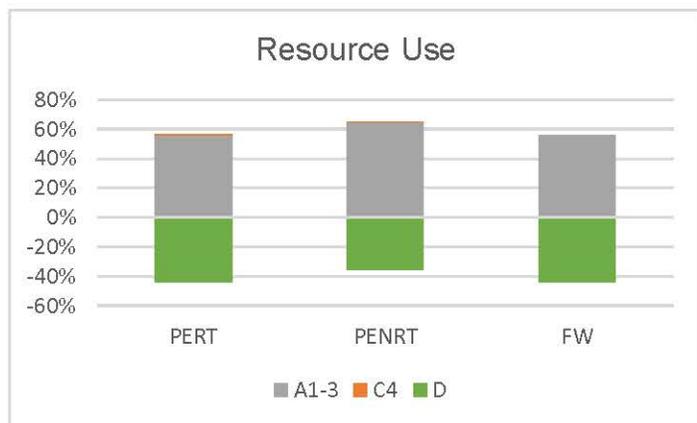
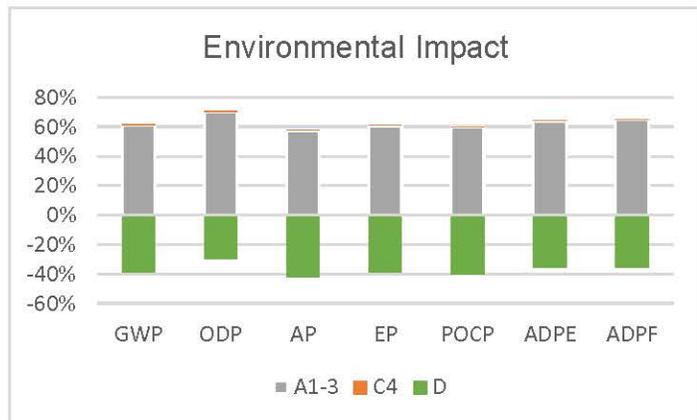
According to ISO 14025

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.



QuickPanel
by Engage Building Products

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

HPD UNIQUE IDENTIFIER: 30545

CLASSIFICATION: 07 42 13 Metal Wall Panels

PRODUCT DESCRIPTION: QuickPanel® is a complete 4mm ACM panel and patented attachment system. QuickPanel is a superior Architectural Pressure-Equalized Rainscreen Cladding Solution.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format <input type="radio"/> Nested Materials Method <input checked="" type="radio"/> Basic Method	Threshold Level <input checked="" type="radio"/> 100 ppm <input type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other	Residuals/Impurities Evaluation <input checked="" type="radio"/> Completed <input type="radio"/> Partially Completed <input type="radio"/> Not Completed Explanation(s) provided : <input checked="" type="radio"/> Yes <input type="radio"/> No	<i>For all contents above the threshold, the manufacturer has:</i> Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No <i>Provided weight and role.</i> Screened <input checked="" type="radio"/> Yes <input type="radio"/> No <i>Provided screening results using HPDC-approved methods.</i> Identified <input checked="" type="radio"/> Yes <input type="radio"/> No <i>Provided name and CAS RN or other identifier.</i>
Threshold Disclosed Per <input type="radio"/> Material <input checked="" type="radio"/> 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 QUICKPANEL [ALUMINUM BM-1 | END | MAM | PHY MANGANESE LT-P1 | END | MUL | REP | MAM | AQU MAGNESIUM LT-UNK | PHY | SKI CHROMIUM LT-P1 | END | SKI | GEN | REP | MAM]

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.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional 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.

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

QUICKPANEL

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 QuickPanel Systems visit: <https://quickpanels.com/>

ALUMINUM

ID: 7429-90-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-10-17 10:28:16

%: 95.0000 - 98.0000

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) 45.8%
Recovered Aluminum from Post-Industrial (Pre-Consumer) Scrap 40.6%
Recovered Aluminum from Post-Consumer Scrap 13.6%

MANGANESE

ID: 7439-96-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-10-17 10:28:17

%: 0.0000 - 1.6000

GreenScreen: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

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 (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:

MAGNESIUM

ID: 7439-95-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-10-17 10:28:18

%: 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:**CHROMIUM**

ID: 7440-47-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-10-17 10:28:18

%: 0.0000 - 0.3000

GreenScreen: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

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 (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
Restricted List	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products

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:

CERTIFIER OR LAB: None

CERTIFICATION AND COMPLIANCE NOTES:

LCA

Environmental Product Declaration (EPD) by UL - Industry Generic

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

ISSUE DATE: 2016-10-16
EXPIRY DATE:

CERTIFIER OR LAB: UL

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

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://quickpanels.com/>

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 SaferChemicals, 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.

INSTALLATION GUIDE

4mm ACM Pressure Equalized Rainscreen System



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Product Description

QuickPanel System® are a 4mm ACM Pressure Equalized Rainscreen System, designed to revolutionize the building cladding industry that is dominated by tradition. Our innovative aluminum building cladding system delivers a premium product, with the most modern features on the market; without the premium price.

All QuickPanel® trim profiles come in 10' lengths and are made from ultra-durable 6063-T6 extruded aluminum. This all-in-one, fully tested system uses North American manufactured fire-rated aluminum composite panels. Our UV protected panels are sealed with paints that offer long term defense against ultraviolet rays. We also offer a ColorMatch® program to accommodate custom colors and no face fasteners within the system for a clean aesthetic.

Installation is easy. Everything is measured and cut on-site. The trim backplates provide open, tab-free areas that engage the panels; the top caps are then easily snapped into position holding the panels and completing the installation. QuickPanel® proprietary tools simplify the installation process.

This guide provides detailed instructions for installers from how to prepare for installation, through standard install procedures, to care and maintenance for the trim system. Plus, 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.

Features

- ✓ Complete System
- ✓ Integrated Rainscreen
- ✓ Wind Load Tested
- ✓ Pressure Equalized
- ✓ Reveal Series™ and Absolute Series™ Top Caps
- ✓ No Exposed Fasteners | Zero Maintenance
- ✓ Free Samples
- ✓ Modern. Affordable. Durable.



FIRE RATED PANELS

QuickPanel® panels consist of two sheets of coil coated 3000 series or 5000 series alloy aluminum bonded to a mineral filled fire resistant (FR) core.



NO FACE FASTENERS

Deliver a smooth, clean, and modern aesthetic without unsightly face fasteners.



UV PROTECTED

QuickPanel® panels are sealed with paints specially formulated to defend long-term against ultraviolet (UV) radiation, staining, dirt, chipping, peeling, and fading.



EZ.LOCK®

EZ.Lock Trim Technology allows everything to be measured and cut on-site eliminating the need for any off-site fabrication, and makes installation fast and easy.



COMPRESSION ASSEMBLY

QuickPanel® Systems can accommodate up to 5/8" of building compression between floors.



EZ.SLOPE®

This patented technology provides revolutionary water-management and drainage to reduce your total maintenance time and cost.



COLORMATCH™

QuickPanel® Systems are only limited by your imagination, offer a wide-range of standard color options, and can easily accommodate custom colors.

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.



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.
- ✓ Trim material will be received on a pallet (Figure 4.1). Pallet size will vary (typical pallet size is 10' L x 33" W x 24"-32" T).
- ✓ Panels will be received on a pallet. Pallet size will vary depending on panel sizes required for the project. (typical pallet size is 8' or 10' or 16' L x 64" W x 12"-20" T).
- ✓ 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.

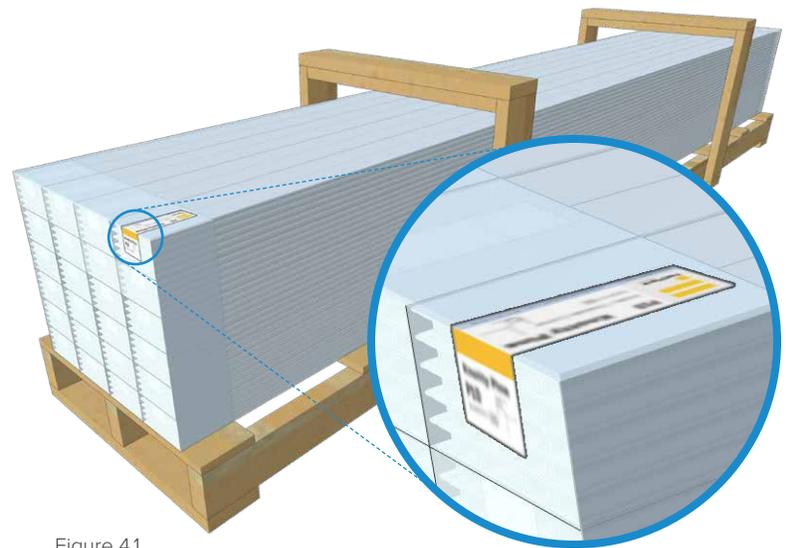


Figure 4.1



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.

Care & Maintenance

The QuickPanel System is 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.

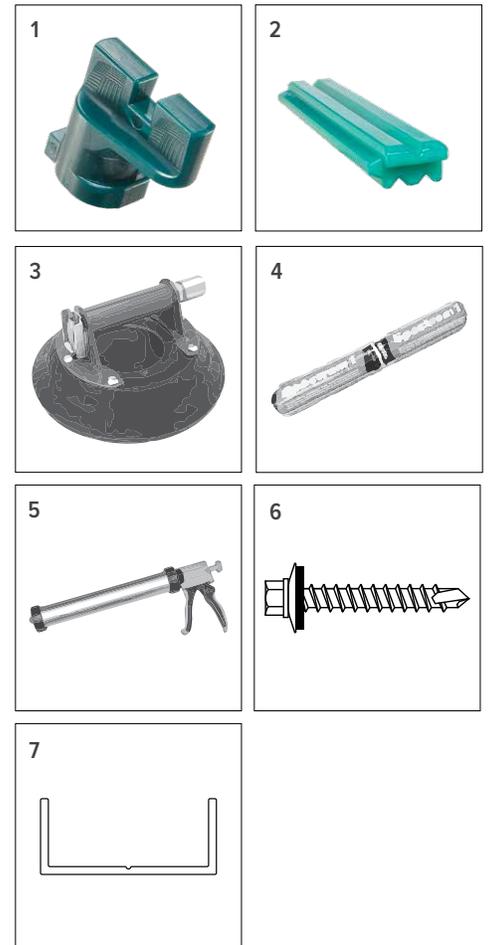
1. Steel Toe Boots
2. Cut Resistant Gloves
3. Safety Glasses
4. Hard Hat
5. Ear Protection
6. Safety Vest

7. Fall Protection
8. First Aid Kit



Complete with every QuickPanel order, you'll receive the following to assist with installation:

1. QuickClips™
2. HammerBlock™ (available from EasyTrim®)
3. Industrial grade suction cup handles
4. Tremco® Spectrem® 1 silicone adhesive (sausage style)
5. Silicone adhesive gun / applicator (sausage style)
6. Hex screws - length and type (ex. wood or metal) will be determined by each job's substrate
7. Rainscreen furring spacers (QP 06)



Tools & Accessories

The following general tools will also be required for installation:

- | | |
|---|--|
| <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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 panel installation and a top-cap that is clipped into the backplate after the panels have been installed. (Figure 8.1)

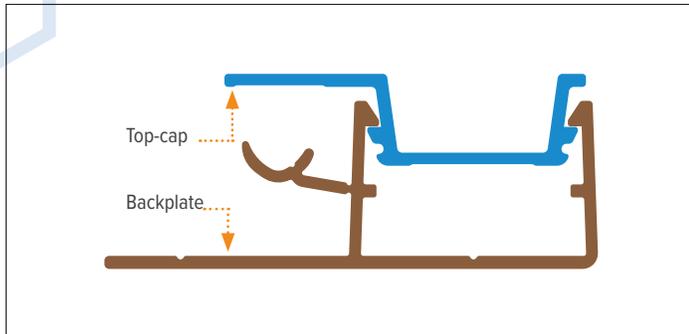


Figure 8.1

There are two design options to choose from. Our 2-piece trim technology ensures a quick and easy installation with either option.

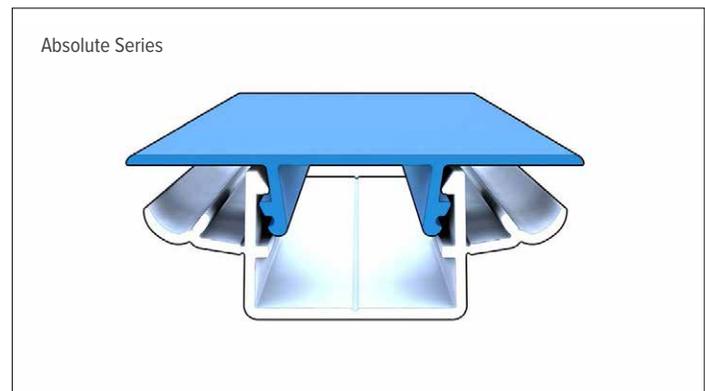
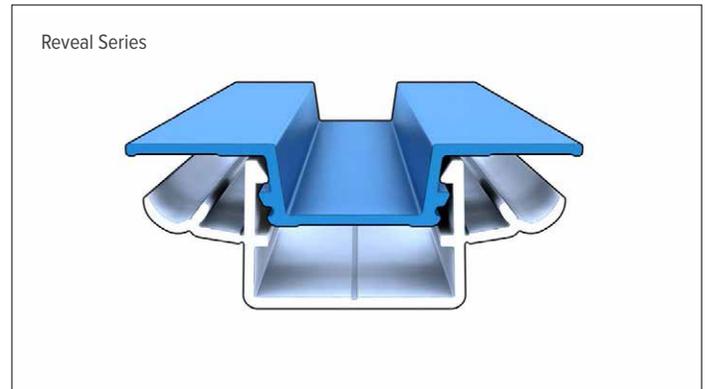
AESTHETIC CHOICE

QuickPanel Systems® supply two top cap design options for the same application:

- Reveal Series™ (Figure 5.1).
- Absolute Series™ (Figure 5.2).

IDENTICAL PERFORMANCE

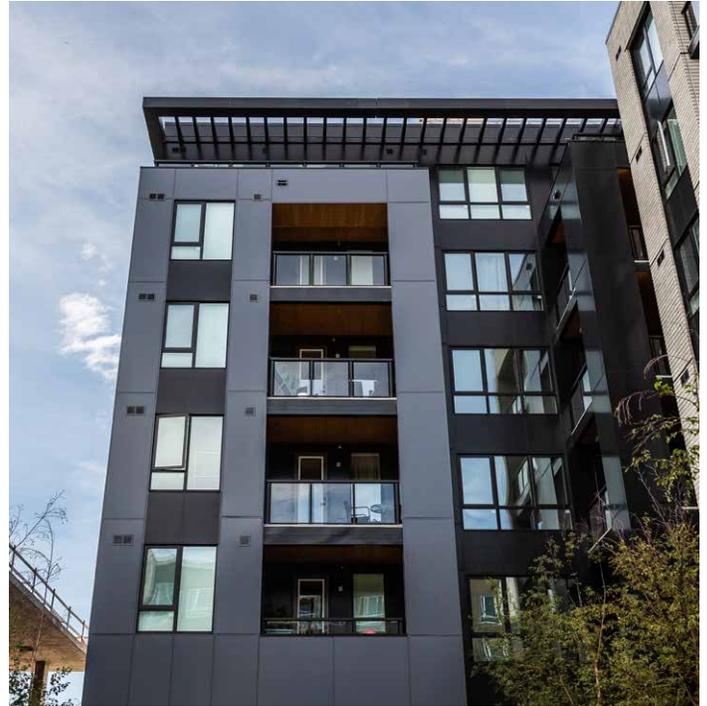
Trim selection will achieve different aesthetics for your project (i.e. outside corners, jambs and material transitions, horizontal trims etc.). Aesthetic choices will not impact performance, installation time and cost.



Trim & Panel Allocations

Our estimation team provides a full complimentary take-off along with a trim and panel allocation document/booklet with any QuickPanel® project. Within the booklet there will be different elevations/details of the building. These architectural drawings have been provided for us by the customer prior to any installation process. Each elevation will show the installer various gridlines pertaining to certain trims, these gridlines are color coated to help identify which trim profiles are being used. These gridlines also show rough dimensions for panel sizes. On site measurements are typically different than drawing measurements so please refer to these dimensions as a guide. The booklet will also show panel orientation and an optimized cutting detail for minimal waste. For further assistance on our allocation booklet, please contact install support.

1-877-973-8746



Wall Preparation

Follow local building codes for all primary flashing details before commencing QuickPanel install.



Figure 10.1

Ensure the proper air & water barrier (AWB) has been installed as per your local building code and project specifications (pic from ET fig 10.2)

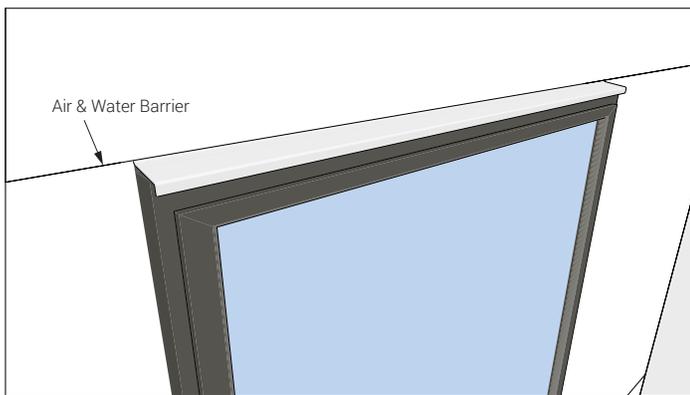
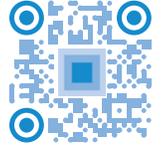


Figure 10.2

Identify your substrate material:

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

Note: *If you have questions about your substrate material or alternative substrate fastening scenario – please contact installation support 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)

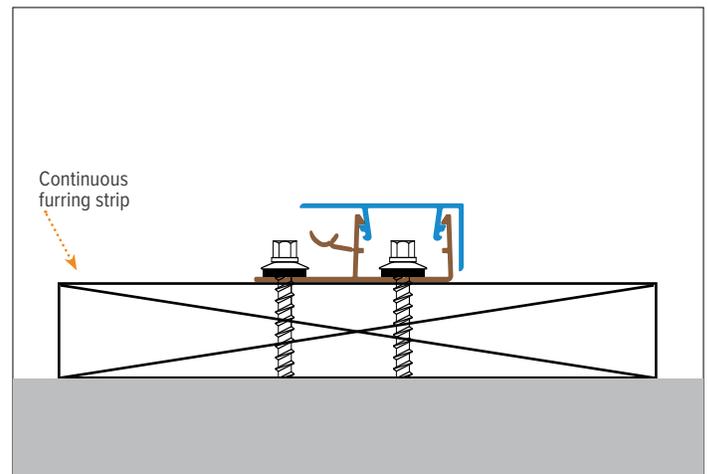


Figure 10.3



ATTENTION

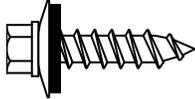
Refer to your local building codes and project specifications for AWB and primary flashing detail.

Fastener Info

Substrate Type

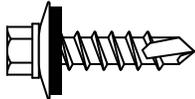
Wood

Use 3/4" or greater, self-piercing galvanized/stainless steel pan head/pancake head (low profile)



Metal

Use 3/4" or greater, self-tapping galvanized/stainless steel pan head/pancake head (low profile head)



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

How / Where to place fasteners

- Each profile has a fastening guide called the EZ.Line® – located on the center of backplates, or on the fastening flange (Figure 12.1).
- Fasteners should be installed 16" on center.
- On any corner profile (profile with two fastening flanges), alternate the fastening patterns from one flange to the next (Figure 13.2). Avoid aligning fasteners to prevent pillowing or buckling of the profile.

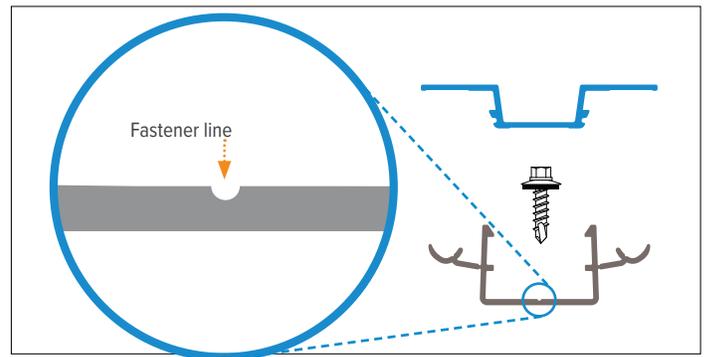
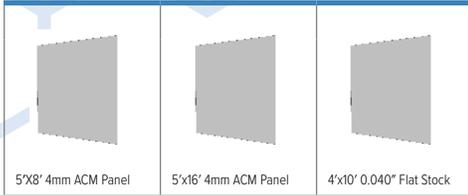


Figure 11.1

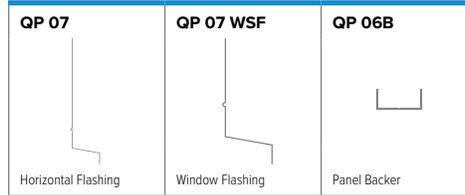


Profile Legend

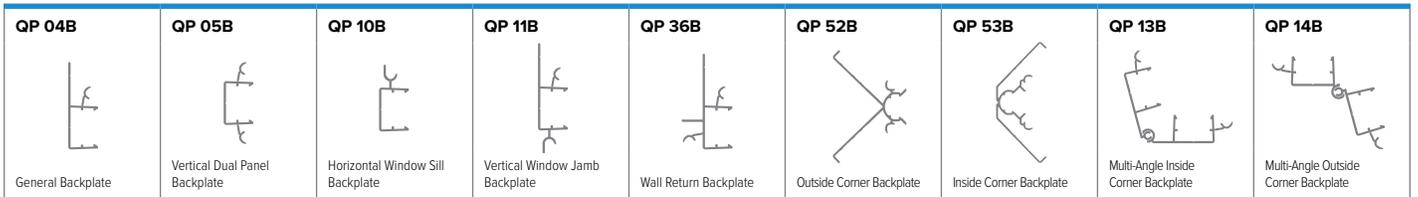
PANELS



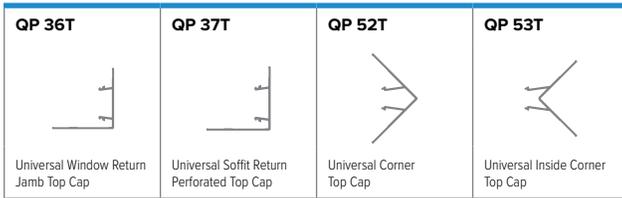
SYSTEM FLASHING & OTHER



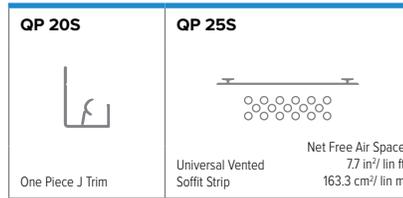
BACKPLATES



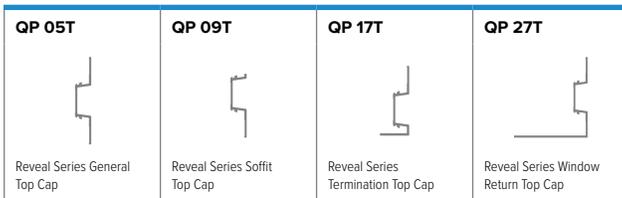
COMMON TOP CAPS



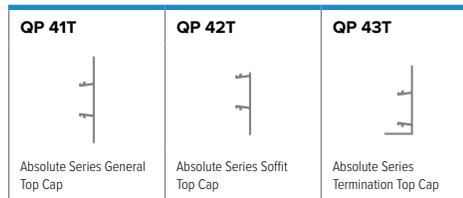
ONE PIECE PROFILES



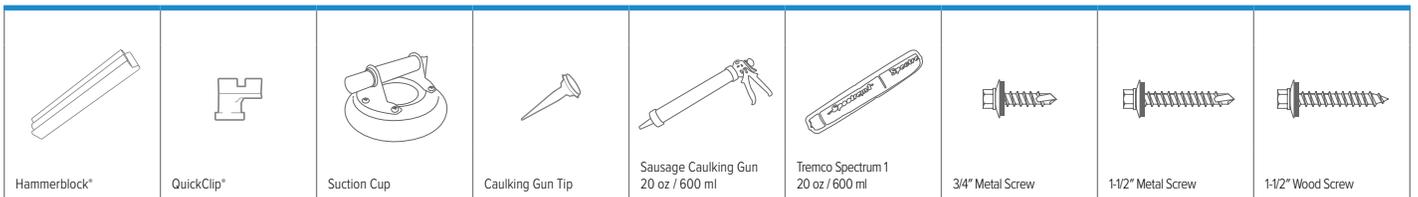
REVEAL SERIES TOP CAPS



ABSOLUTE SERIES TOP CAPS



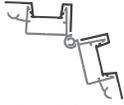
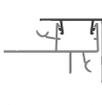
ACCESSORIES



Profile Legend

REVEAL SERIES™ ASSEMBLIES Length: 10'

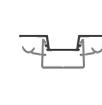
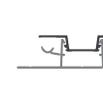
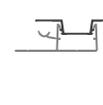
OUTSIDE CORNERS

<p>QP 52B + 52T</p>  <p>Outside Corner Trim</p>	<p>QP 14B + 17T</p>  <p>Multi-Angle Outside Corner Trim</p>	<p>QP 36B + 36T</p>  <p>Vertical Window Return Trim</p>
---	---	---

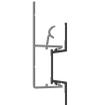
INSIDE CORNERS

<p>QP 53B + 53T</p>  <p>Inside Corner Trim</p>	<p>QP 13B + 09T</p>  <p>Multi-Angle Inside Corner Trim</p>
--	--

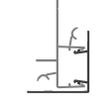
VERTICAL TRIMS

<p>QP 05B + 05T</p>  <p>Vertical Main Wall Trim</p>	<p>QP 04B + 17T</p>  <p>Vertical Termination Trim</p>	<p>QP 04B + 27T</p>  <p>Vertical 2" Return Trim</p>
--	---	---

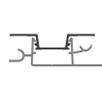
HORIZONTAL TRIMS

<p>QP 04B + 05T</p>  <p>General Horizontal Trim</p>	<p>QP 04B + 09T</p>  <p>Soffit Termination Trim</p>
---	---

SOFFIT TRIM

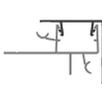
<p>QP 36B + 37T</p>  <p>Perforated Soffit Return Trim</p>

WINDOW TRIMS

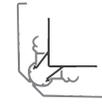
<p>QP 10B + 05T</p>  <p>Horizontal Window Sill Trim</p>	<p>QP 11B + 05T</p>  <p>Vertical Window Jamb Trim</p>
---	---

ABSOLUTE SERIES™ ASSEMBLIES Length: 10'

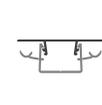
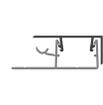
OUTSIDE CORNERS

<p>QP 52B + 52T</p>  <p>Outside Corner Trim</p>	<p>QP 14B + 43T</p>  <p>Multi-Angle Outside Corner Trim</p>	<p>QP 36B + 36T</p>  <p>Vertical Window Return Trim</p>
---	---	---

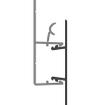
INSIDE CORNERS

<p>QP 53B + 53T</p>  <p>Inside Corner Trim</p>	<p>QP 13B + 42T</p>  <p>Multi-Angle Inside Corner Trim</p>
--	--

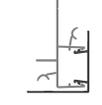
VERTICAL TRIMS

<p>QP 05B + 41T</p>  <p>Vertical Main Wall Trim</p>	<p>QP 04B + 43T</p>  <p>Vertical Termination Trim</p>
--	---

HORIZONTAL TRIMS

<p>QP 04B + 41T</p>  <p>General Horizontal Trim</p>	<p>QP 04B + 42T</p>  <p>Soffit Termination Trim</p>
---	---

SOFFIT TRIM

<p>QP 36B + 37T</p>  <p>Perforated Soffit Return Trim</p>

WINDOW TRIMS

<p>QP 10B + 41T</p>  <p>Horizontal Window Sill Trim</p>	<p>QP 11B + 41T</p>  <p>Vertical Window Jamb Trim</p>
---	---



Basic Installation Process

A Completed **QuickPanel**[®] Installation



Basic Install Process

1. Confirm grid line layout as per final project (approved) drawing. (Figure 16.1)

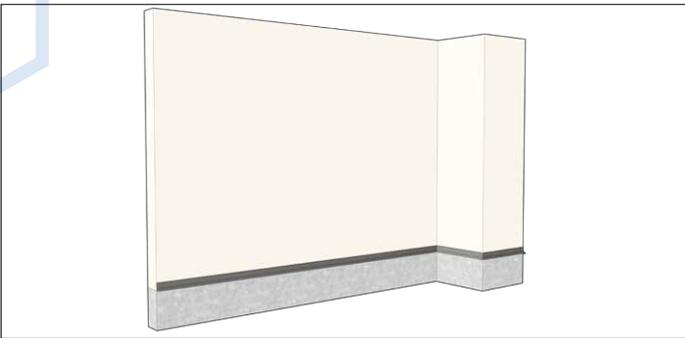


Figure 16.1

2. After completing the air water barrier and primary flashings, install the QP 01 Perforated Starter Flashing on top of the Air Water Barrier. Level and align the top edge of the flashing 3-1/2" above the cladding start point. (Figure 16.2)



Figure 16.2

3. Align the Flashing ends flush to outside corners and 1-1/2" back from inside corners and 2 piece Perimeter trims. (Figure 16.3 a, b & c)



Figure 16.3



Figure 16.3 a



Figure 16.3 b

4. Overlap the flashings by 6" when the distance exceeds the length of the flashing. Tack in place approximately every 4'. The flashing will be secured once the QP 04 General Horizontal backplate is installed later in the process. (Figure 16.4 a & b)

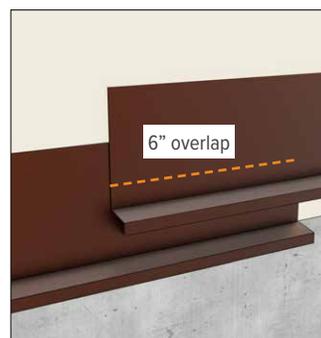


Figure 16.4 a



Figure 16.4 b

Basic Install Process (Cont.)

5. Install the QP 52 Outside Corner and QP 53 Inside Corner backplates by placing the bottom over the Perforated Starter Flashing and setting it at the first bend. At the top of the wall leave 2" back from the claddings end point. Fasten at 16" on center and no further than 2" from ends. (Figure 17.1 a, b, c, & d)

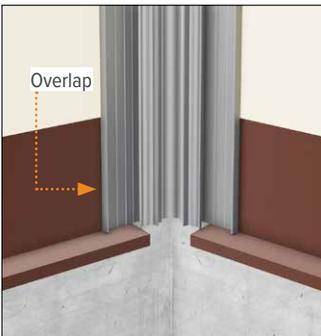


Figure 17.1 a

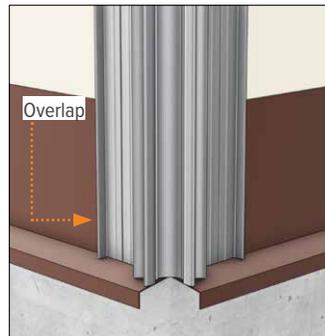


Figure 17.1 b

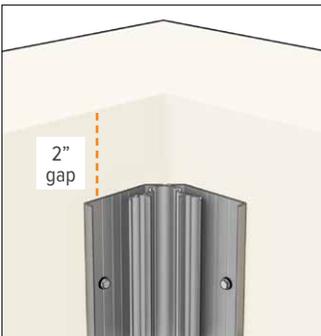


Figure 17.1 c

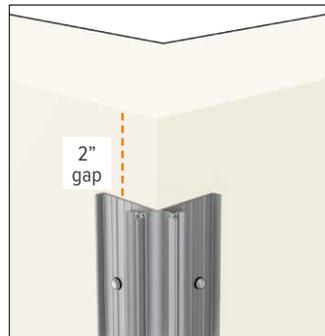


Figure 17.1 d

6. On any corner profile or profile with two fastening flanges, alternate the fastening patterns from one flange to the next. Avoid aligning fasteners to prevent pillowing or buckling, except at ends. At any end of a trim having two flanges fasten each flange no further than 2". Fasten all vertical and horizontal trims to studs when possible. (Figure 17.2)



Figure 17.2
Installation Guide for QuickPanel Systems®

7. At a vertical perimeter edge Install the QP 17 Vertical Termination backplate by setting the bottom over the Perforated Starter Flashing and set it 2" from the first bend. At the top of the wall leave 2" back from the claddings end point. Fasten down the center of the BackPlates engagement channel at 16" on center and no further than 2" from ends. (Figure 17.3 a & b)

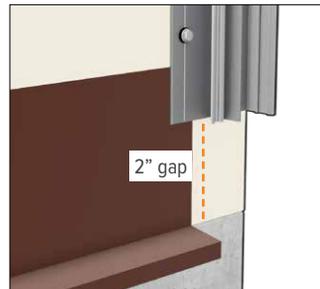


Figure 17.3 a

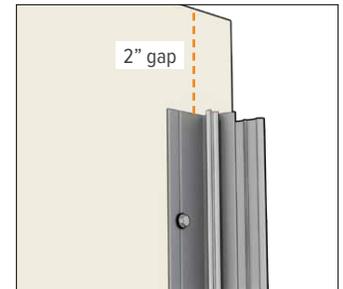


Figure 17.3 b

Note: The QP 04 backplate has an extended fastening flange outside of the engagement channel that can be used as an alternate fastening location depending on substrate conditions. Fasten all vertical and horizontal trims to studs when possible.

8. Place a QP 04 horizontal backplate onto the QP 01 Starter Flashing and set the bottom edge into the first bend. Keep it back 2" from any corners fastening flange, and 2" from the center of any mid-field vertical. Fasten the center of the backplates engagement channel at 16" on center and no further than 2" from ends. (Figure 17.4 a & b)

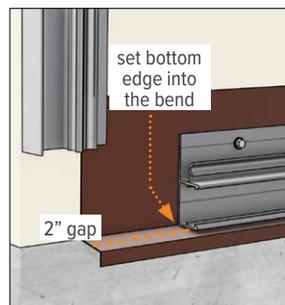


Figure 17.4 a

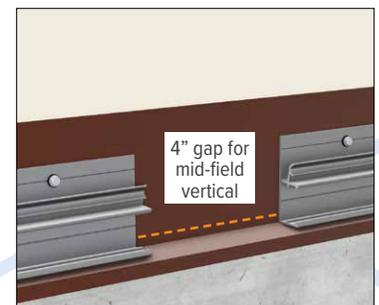


Figure 17.4 b

Basic Install Process (Cont.)

9. At the top of the wall run a QP 09 Soffit Termination back plate horizontally keeping it back 2" from any corner or vertical termination fastening flange. Fasten 16" o.c. and no further than 2" from the ends. (Figure 18.1 a & b)

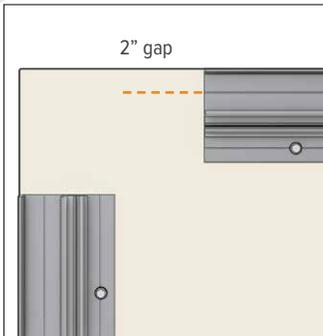


Figure 18.1 a

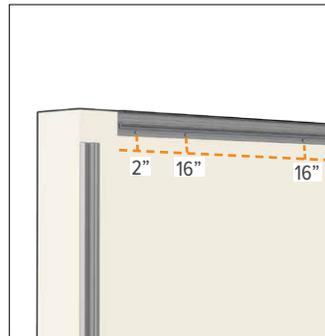


Figure 18.1 b

10. To install a main wall vertical, set the a QP 2 General Vertical back plate QP 05 Vertical Main Wall back plate over the starter flashing so that the bottom is 2" above the first bend and the top aligns with the top of panel location panel horizontal gridline. Plumb and fasten in place 16" o.c. and no further than 2" from ends. (Figure 18.2 a & b) (see Fastening Info)

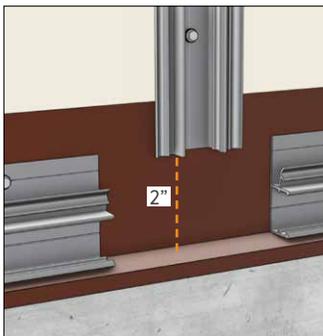


Figure 18.2 a

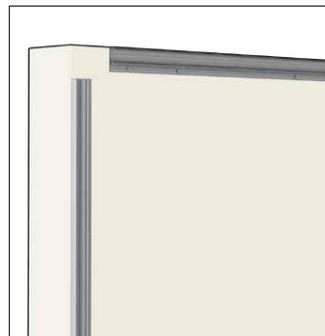


Figure 18.2 b

11. Install rainscreen QP 06 (PVC) Rainscreen Furring Spacers every 24" vertically and 16" horizontally. Install a furring spacer at the horizontal panel gridline to stop deflection in the QP 07 Horizontal Flashing which will be installed later in the process. (Figure 18.3 a & b)

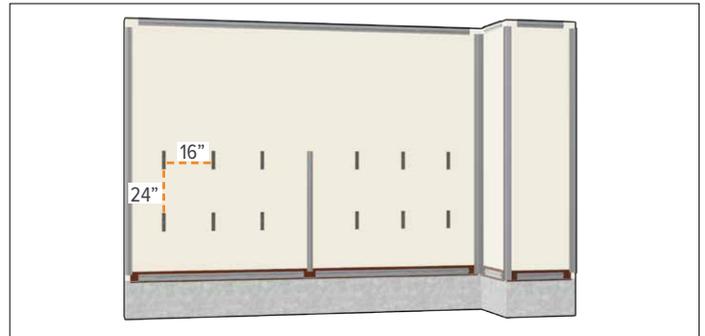


Figure 18.3 a



Figure 18.3 b



ATTENTION

A vertical main wall trim is used to accommodate varied panel lengths. Use is based on Estimation best practices for efficient use of cladding, as well as design aesthetics

Basic Install Process (Cont.)

Note: *The arrows on the protective film indicate the paint direction. Have all arrows facing the same direction when installing the panels. It's especially important to orientate these panels in the same direction with mica and metallic colours. Refer to the Trim and Panel Allocations booklet for the panel orientation. (See Trim & Panel Allocations)*

If using a circular saw to cut the panels, make sure to cut on the backside of the panel – this is the side WITHOUT the protective film. Failure to do this may result in scratching the panel from contact with the base plate of the saw.

If using a track saw to cut the panels, you can cut on either side.

12. To cut a panel, measure horizontally between the vertical back plates and cut 1/8" less at either end to allow for expansion. Measure vertically from QP 04 General Horizontal back plate to the horizontal panel gridline. Follow mentioned cutting instructions. (Figure 19.1 a, b & c)

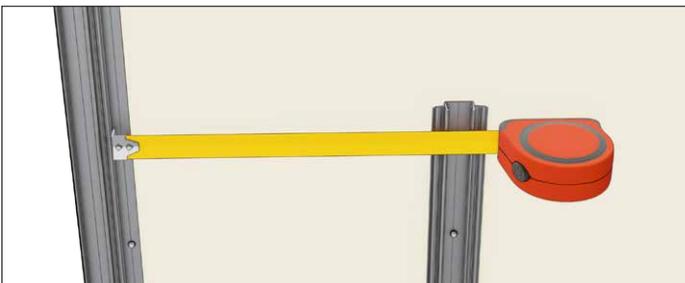


Figure 19.1 a



Figure 19.1 b



Figure 19.1 c

13. Peel back the panel protective film 1 1/2" around the perimeter of the panels to accommodate EZ Lock® Top Cap installation later in the process. This applies to all panels. (Figure 19.2)

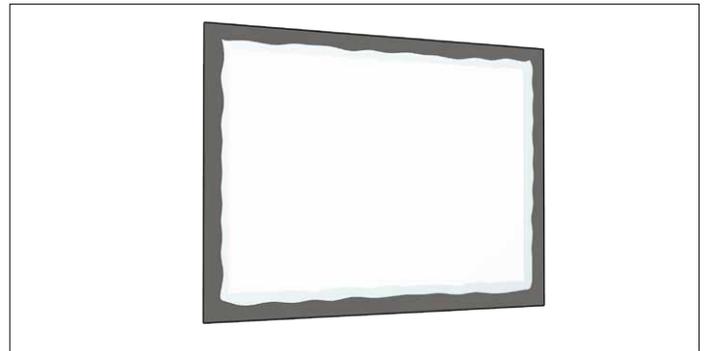


Figure 19.2

14. Install a small dot of the supplied external silicone into the panel platforms of the back plates at 16" intervals. (Figure 19.3)



Figure 19.3

Note: Apply small dots of the supplied external silicone to the panel platform of the back plates at 16" intervals. This applies to all 2-piece trims.

Basic Install Process (Cont.)

15. Set the panel onto the panel platforms using the provided suction cups to assist. Temporarily hold panel in place using QuickPanel® QuickClips™. Repeat along the same course. (Figure 20.1)

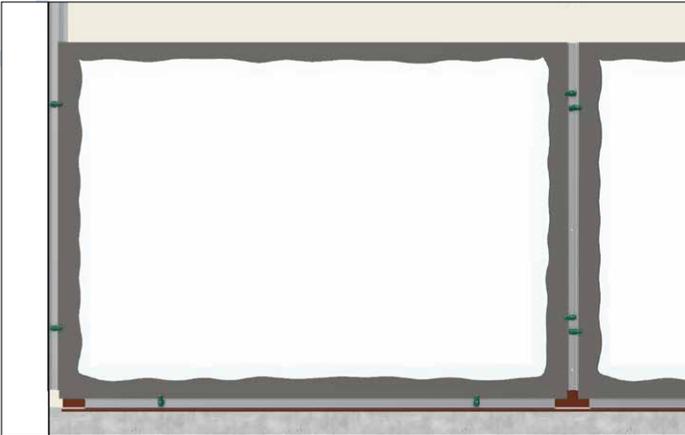


Figure 20.1

Note: QuickClips™ are for temporary use only. Do not use QuickClips™ for an extended period.

16. Cut the length of the QP 05 Vertical Main Wall Top Cap by measuring vertically from QP 04 General Horizontal back plate's panel platform up to the chalk line grid height. (Figure 20.2 a & b)

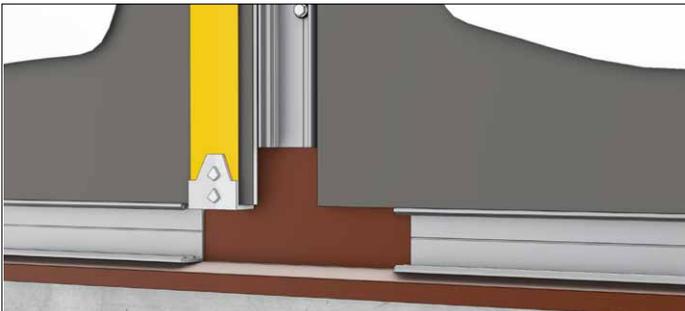


Figure 20.2 a

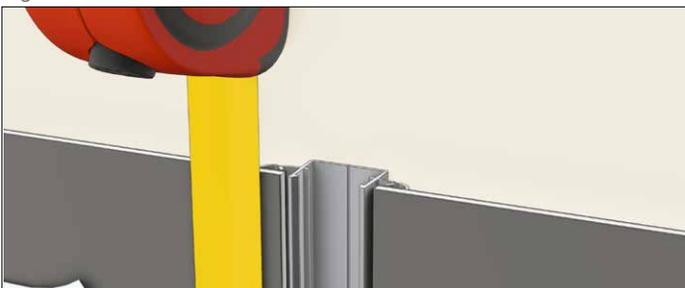


Figure 20.2 b

Note: The arrows on the protective film indicate the paint direction. Have all arrows facing the same direction when installing the panels. It's especially important to orientate these panels in the same direction with mica and metallic colours.

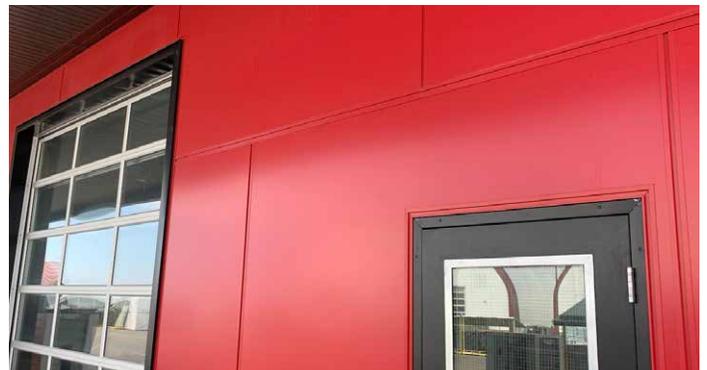
17. Install the QP 04 General Horizontal top cap by measuring from the outer edge of the QP 52 Outside Corner panel platform to the outer edge of the QP 53 Inside Corner panel platform. (Figure 20.3 a & b)



Figure 20.3 a



Figure 20.3 b



Basic Install Process (Cont.)

Note: Use the QuickPanel® HammerBlock® to avoid damaging the trims and the 30-year Kynar® paint finish.

18. Apply dots of external silicone into the EZ.Lock® engagement channel before you engage the top cap to the back plate by setting the top cap into one side of the back plate's EZ Lock® engagement mechanism, then using the QuickPanel® HammerBlock™ and a deadblow / mallet, hammering along the whole top cap length. This applies to all 2-piece trims. (Figure 21.1)

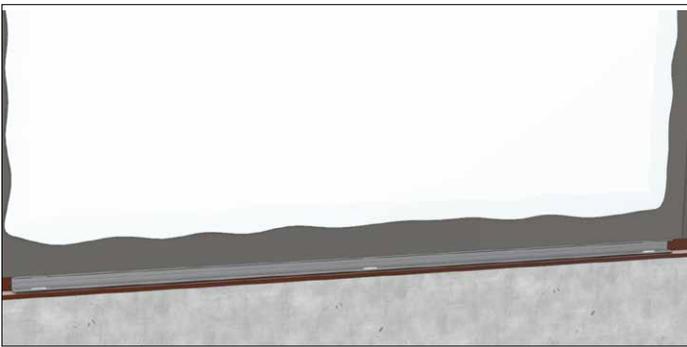


Figure 21.1 a

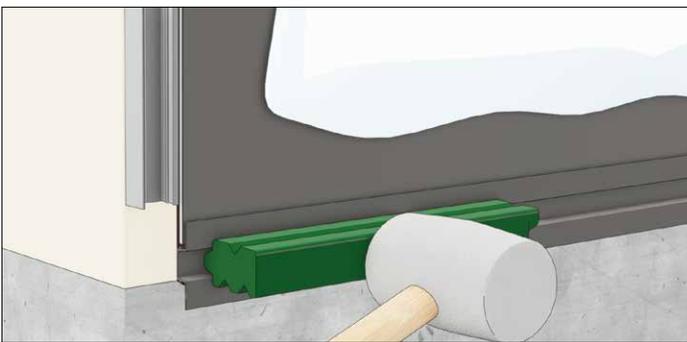


Figure 21.1 b

19. Install the QP 05 Vertical Main Wall top cap by applying dots of external silicone into the EZ.Lock® Engagement channel before you engage the top cap. QuickPanel® HammerBlock™ and a deadblow/mallet to secure top cap in place. (Figure 21.2)



Figure 21.2

20. Measure horizontally from the nailing flange of the QP 17 Vertical Termination Back Plate to the QP 53 Inside Corner and cut the QP 07 Horizontal Flashing to length. (Figure 21.3 a & b)



Figure 21.3 a



Figure 21.3 b

21. Place the QP 07 Horizontal Flashing so that it covers the top edge of panels, QP 05 Vertical Main Wall Top Cap, and the QP 06 (PVC) Rainscreen Furring Spacers. (Figure 21.4)

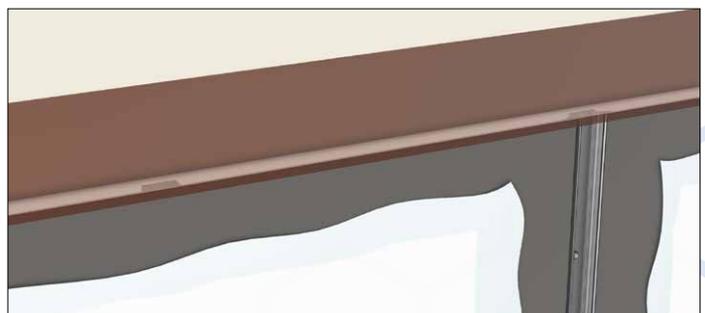


Figure 21.4

Basic Install Process (Cont.)

22. Tack the QP 07 Horizontal Flashing level in place with siding nailer. Be sure to overlap joints by 6”.

23. Measure 2” from the the QP 17 Vertical Termination Fastening Flange and 2” from the vertical gridline. Cut the QP 04 General Horizontal Back Plate to this length and fasten with screws through the QP 07 Horizontal Flashing. Ensure that the horizontal center lines located on the flashing and the trim line up. (Figure 22.2 a & b)



Figure 22.2 a

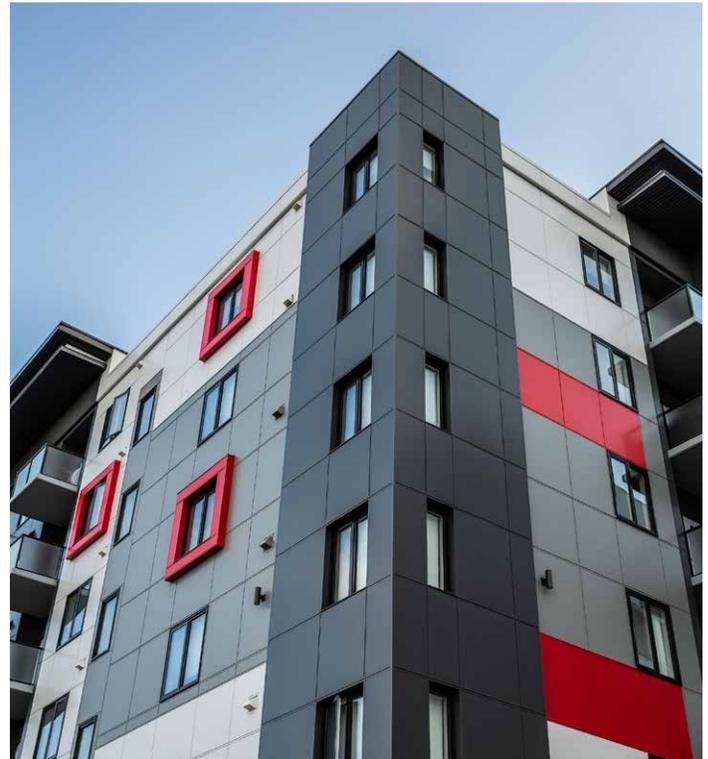


Figure 22.2 b

24. Cut 2” notches in the panel platforms of QP 17 Vertical Termination back plate where QP 04 General Horizontal Trims meets at 90 degrees. The notch is needed to accommodate greater overlap of top cap tabs for maximum Fit&Finish™. (Figure 23.1)



Figure 23.1



25. As seen in Step 10, set the a QP 05 Vertical Main Wall back plate over the Horizontal Flashing so that the bottom is 2" above the first bend and the top aligns with the panel horizontal gridline. Level and fasten in place 16" o.c. and no further than 2" from ends. (Figure 23.2 a & b) (see Fastening Info)



Figure 23.2 a



Figure 23.2 b

26. Follow steps shown in Step 11 to install Rainscreen Furring Spacers. (see Figure 18.3 a in Step 11)

Note: Rainscreen Furring Spacers are not needed where the panel's top horizontal edge meets the QP 09 Soffit Termination back plate.

27. Repeat previous steps for the remaining panels, working your way up the wall.

28. Install Soffit Termination top caps by measuring horizontally from the outer edges vertical panel platforms. These top caps will be the same width as their respective panels.

Note: Apply dots of external silicone in the EZ.Lock® engagement channel for all 2-piece trims.

29. Remove protective film from the panels after the wall is complete. (Figure 23.3)

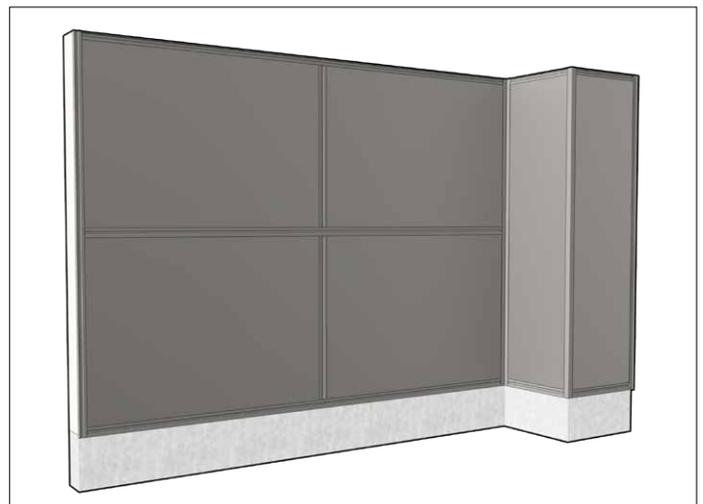


Figure 23.3

FAQ

What are the dimensions of the QuickPanel Systems[®] components?

There are many components available as part of the complete QuickPanel[®], in order to support the needs of your specific job.

What lengths are the QuickPanel Systems[®] trim profiles in?

All of our trim profiles are available in ten-foot (10') lengths.

What color options are available for QuickPanel Systems[®]?

There are many components available as part of the complete QuickPanel[®], in order to support the needs of your specific job.

What type of aluminum are QuickPanel Systems[®] made from?

QuickPanel Systems[®] extruded aluminum profiles are made from 6063-T6 aluminum. Learn more about our product in our resources section.

How does QuickPanel[®] stand up in coastal cities where salt-water is present?

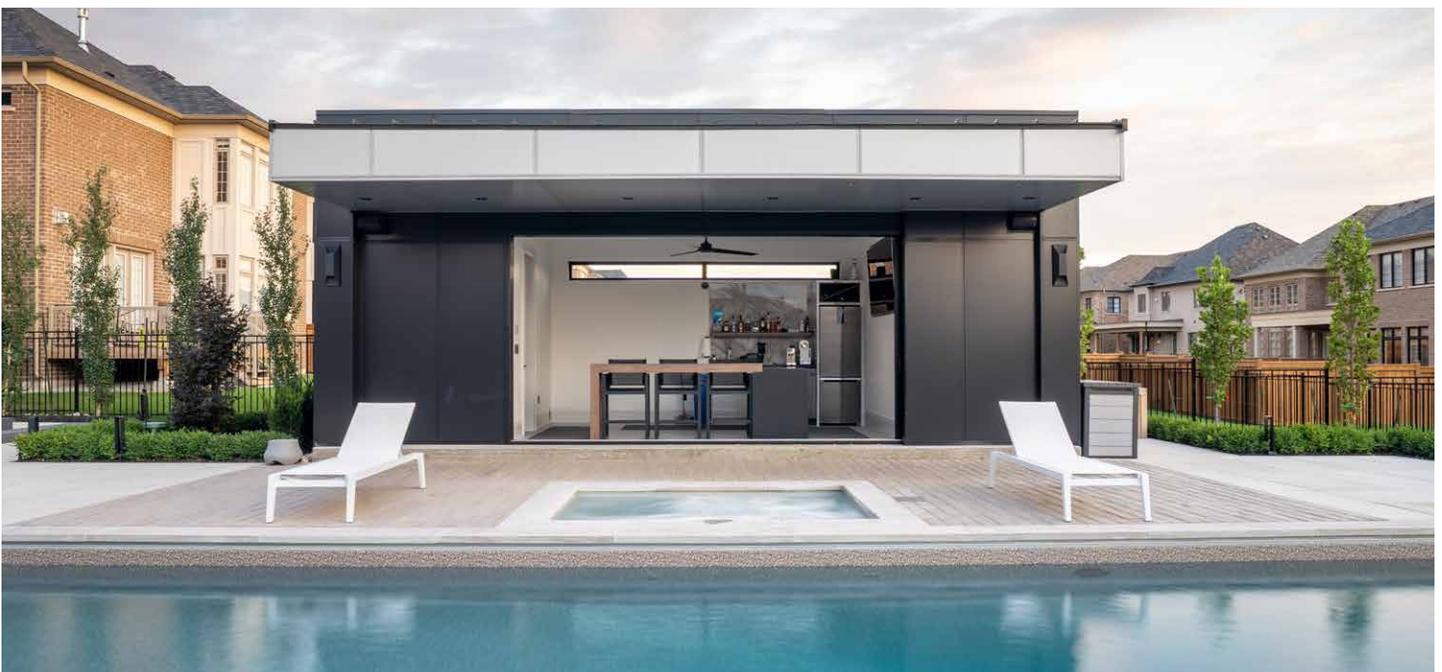
All our exterior aluminum products have finishes that are resistant to the effects of sea salt spray, keeping your oceanfront property beautiful for years to come!

Does QuickPanel[®] offer product knowledge or lunch and learn sessions?

Yes, we do. We offer both product specific lunch and learn. Plus, we can facilitate for your team an AIA course presentation: 4mm ACM Pressure Equalized Rainscreen Concepts & Design. Please contact us to connect you with a local area representative.

Where can I purchase QuickPanel Systems[®] Inc. products?

To see a list of local dealers already setup in your area check out our dealer locator page found on quickpanels.com. If the dealer you are looking for isn't already setup with our products, we can reach out to them.



FAQ

I am a builder/contractor; can I buy direct from QuickPanel Systems® Inc.?

Unfortunately, no; however, you can purchase QuickPanel Systems® through one of our local dealers. To see a list of local dealers already setup in your area check out our dealer locator page found on quickpanels.com.

I'm a dealer, how do I get added to the QuickPanel® website?

Simply contact us with your company name, address(s), best point of contact, and necessary contact information.

Does QuickPanel Systems® Inc. have a “preferred installer” program?

No, QuickPanel Systems® Inc. does not have preferred or certified installers, as installations is designed to be simple and easy for any contractor to use. If you need assistance finding local contractors to bid on your project, feel free to contact us and we will connect you with your local area representative.

Does QuickPanel Systems® Inc. offer installation support?

QuickPanel Systems® offers over-the-phone support for every project. In certain instances, QuickPanel Systems® is able to offer on-site installation training and support depending on the project's location and overall scope. We recommend that everyone familiarize themselves with our installation guide as much as possible. To request over-the-phone or on-site support, please contact us.

Do QuickPanel® systems offer a warranty?

QuickPanel Systems® Inc. offers a 15 to 30-year* limited warranty on our aluminum system profiles, when installed properly. A warranty document is available for your review.

Are QuickPanel® innovations patented?

Yes, QuickPanel Systems® has received patents for each of our innovative features, as well as many of our individual trim profile options. Additionally, our organization has dozens of patent applications pending on new, innovative building and aluminum technologies. Stay tuned for some exciting new aluminum building products in the future.

Does QuickPanel® manufacture their own aluminum panels?

No, we pride ourselves on being the trim experts; however, QuickPanel Systems® are sold as a complete system with the panel component being primarily supplied by partners such as Alucoil.

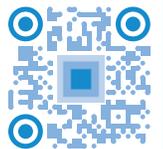
What other products does your company make?

QuickPanel Systems® is only one of three innovative aluminum building products that have already taken the market by storm. Other groundbreaking products include **FastPlank®** Systems, a woodgrain aluminum siding system for both residential and commercial buildings; and **EasyTrim®** Reveals, a complete aluminum trim system for panel and lap siding.

What if I have a question that isn't frequently asked?

Please contact us directly, we are more than happy to respond to any questions you may have about our products and services.

Contact installation support at 1-877-973-8746



Product Warranty

QuickPanel Systems® Aluminum Reveal Wall System 15 Year Limited Warranty is extended to original purchasers of QuickPanel Systems® Aluminum Reveal Wall Systems.

This Warranty is for the benefit of the original property owner who purchased the product and is not transferable. QuickPanel Systems® warrants that our Aluminum Reveal profiles, when installed properly, shall be free of manufacturing defects in workmanship and materials and will not split, crack, peel, blister, flake, rust nor be subject to abnormal weathering. With proper substrate, EasyTrim Reveals® will not buckle or split.

If the aluminum reveal profiles fail to perform as warranted, QuickPanel Systems® will provide, at its option, replacement parts or components to the dealer specified by the original purchaser at no cost. QuickPanel Systems® will not be responsible for installation or labor costs.

GENERAL CONDITIONS & EXCLUSIONS

The QuickPanel Systems® Warranty is not transferable and is subject to the general conditions and exclusions. There are certain conditions or applications over which QuickPanel Systems® has no control. The QuickPanel Systems® Warranty does not cover defects or problems as a result of such conditions or applications.

What is not covered:

- Damage caused by improper installation, use, application or maintenance;
- Damage to the finished metal caused by handling, shipping, processing; storage, installation and/or improper cleaning;
- Damage from contact with harmful chemicals, fumes, or vapours
- 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
- Installation or labor costs.

The limited warranties set forth are the only warranties (whether written or oral) applicable to QuickPanel Systems® wall system profiles.

QUICKPANEL SYSTEMS® 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 WILL NOT BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RELATING TO YOUR PURCHASE OR USE OF EASYTRIM REVEALS PRODUCTS. QuickPanel 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 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 QuickPanel Systems® were purchased originally. If, after thirty (30) days you have received no response to your concerns, then contact EasyTrim Reveals® Inc. via email sending your email to warranty@quickpanels.com.

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

Please include the following documentation:

1. Identify the QuickPanel Systems® wall system profile(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@quickpanels.com







Connect with a representative for help getting your project started today!