Metalwërks®
Architectural Plate Systems

Ameriplate

Rain Screen Wall System

Efficiency and fascinating free-floating effects are hallmarks of Metalwërks Ameriplate wall systems. With Ameriplate, the cut edges of the face plate material are the panels' edges, a capability in metal you can only achieve with plate. When Ameriplate attachment hardware is concealed from view, architects achieve a fascinating floating panel effect.

The fabrication efficiency of Ameriplate, combined with Metalwërks simplified panel attachment options that speed installation, make for a highly competitive, high-end rain screen wall system. Ameriplate panels are factory assembled with a flat plate facing structurally adhered to an extruded aluminum panel frame and may be flat or curved. Two-dimensional geometries of panel facings are virtually limitless and panels may be installed in any direction. Joint sizes can be variable and reveals can use a complimentary or contrasting finish. There are three primary design methods.

All Ameriplate systems install with concealed fasteners over continuous masonry, concrete, or as the outer cladding in a wall assembly that incorporates continuous insulation and a suitable air and water barrier. Solid metal panels are particularly useful where metal panels are used in pedestrian areas due to superior impact performance compared to other composite metal panel cladding products.

DETAILS

- Manufactured from solid aluminum or stainless plate with extruded aluminum framing
- **Ship Lap** design method is specifically engineered for horizontal panel orientations and has superior water shedding and drainage characteristics.
- **Hook and Pin** design method consists of a continuous vertical gutter track that is installed behind the vertical joints and serves as the structural carrier for the panels.
- **Spline** design method is achieved using a locking clip which can be engaged at any point along the panel frame. Panel joints receive a mating spline which conceals the anchor clips and allows for multidirectional panel installation
- High resistance to denting and puncturing, ideal for high-traffic or abusive areas
- Mitered aluminum extrusion corners
- 0.5" (12.7 mm) standard horizontal and vertical joint with variable options
- Integrated knife plate reveals
- Floating plate appearance with deep perimeter reveals
- Adjustable furring to address variable construction tolerances and ensuring vertical sealing to air and water barrier, minimizing shims
- Non-Combustible: minimal smoke or fuel contribution
- Avoids NFPA 285 complications by using thermo-plastic cores
- All panel systems are reinforced/stiffened to resist deflection limits
- 'Ship Lap' design has concealed horizontal gutters that weep moisture to the exterior through baffled weep holes
- Multidirectional panel installation options
- Concealed fastened using corrosion-resistant self-tapping screws into an engineered screw pocket with integrated drip edge
- Concealed fasteners but panels can be individually removed
- Aluminum: post-applied finishing for longterm performance and uniform aesthetic
- As rain screen systems rely on gravity to drain water, all skyward facing surfaces, copings, sloped conditions and all perimeters must be sealed
- 100% recyclable with high percentage of post-consumer and industrial content, which may contribute to LEED credits
- Seamless integration with other Metalwërks wall systems

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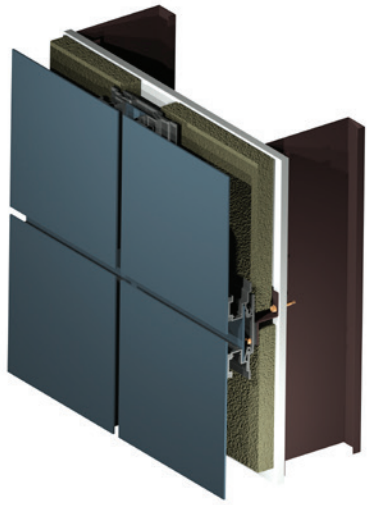
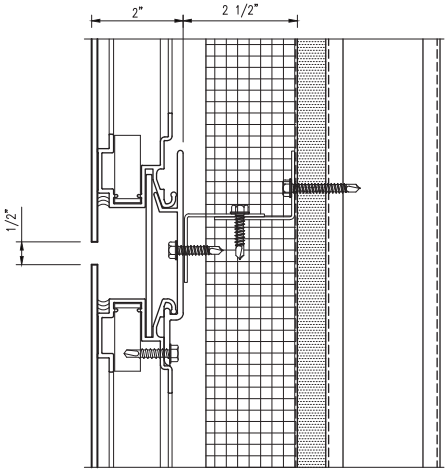
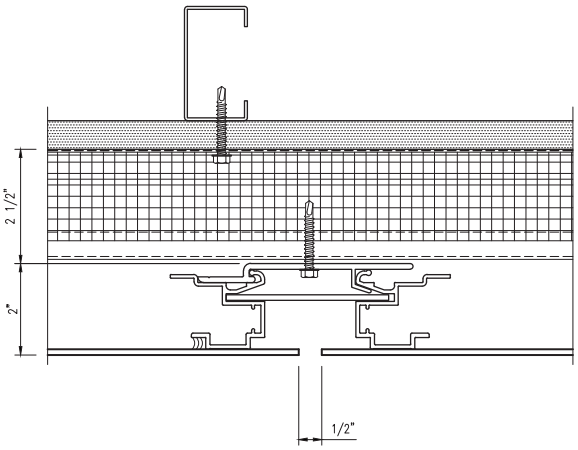


HORIZONTAL JOINT



VERTICAL JOINT



DESIGN OPTIONS

- Panels may be flat or curved
- Variable reveals: Horizontal 0.25"-4" (6.35 mm-101.6 mm) and Vertical 0.25"-6" (6.35 mm-152.4 mm). Consult with Metalwërks for Ameriplate joint options.
- Available with appliqués or perforated face skins.
- Virtually unlimited color options for aluminum plate
- Options for #4, #6, #8, and non-directional finishes for stainless steel plate
- Matching perforated and louvered panels
- Projecting eyebrows with integrated framing can be included
- Enclosures for exposed columns, beams or pilaster features can be clad using materials and joint treatments to achieve matching aesthetics
- Ideal for flat, curved, sloped or vertical walls and soffits where the design intent is for pronounced reveals between the panel units and extremely sharp panel edges.

METAL SUBSTRATE AND FINISH OPTIONS

ALUMINUM

3003-H14 aluminum alloy-temper

Thickness: 0.125" (3.18 mm) standard, 0.188" (4.78 mm), 0.25" (6.35 mm) options

Finishes: Kynar® or architectural TGIC Polyester powder coating

STAINLESS STEEL

T304 or T316 for enhanced corrosion resistance

Thickness: 11 gauge (0.125") (3.18 mm) standard, 12 gauge (0.101") (2.78 mm), 8 gauge (0.172") (4.37 mm), 7 gauge (0.188") (4.78 mm) options

Finishes: #4, #6, #8, and non-directional satin in smooth

PANEL SIZES

Widths: 12" (305 mm) to 72" (1,829 mm)*

Lengths: 12" (305 mm) to 240" (6,096 mm)*

Depth: 2" (50.8 mm) ('Spline'), 2.25" (57.15 mm) ('Ship Lap') and 2.75" (69.9 mm) (Hook and Pin)

* Maximum panel size depends upon plate material, gauge, finish, and geometry

PANEL WEIGHT RANGE

(dependent upon gauge and geometry)

Aluminum: 2.62 - 4.42 lbs./ft^2

Stainless Steel: 4 lbs./ft^2 ('Spline' and 'Hook and Pin') and 6.32 lbs./ft^2 ('Ship Lap')

Ranges provided for clarification. Consult with Metalwërks for further options

ACCESSORIES

Flashing: Formed aluminum or stainless steel sheet metal as required for base or penetration conditions produced from matching material/finish as panels

Coping: May be produced with the same material as the wall panel system

Furring Channels: As required for proper mounting of panels

Perforated Panels and Louvered Vents: For accents, screening or ventilation. Consult with Metalwërks for options.

Fasteners: Type 304 stainless steel or cadmium-plated as recommended

Shims: High impact thermally-broken plastic shims to maintain co-planar surfaces

WARRANTY

Material & Workmanship: 1-year standard, with 2- or 5-year options

Finish Integrity: 10-year standard up to 20-year

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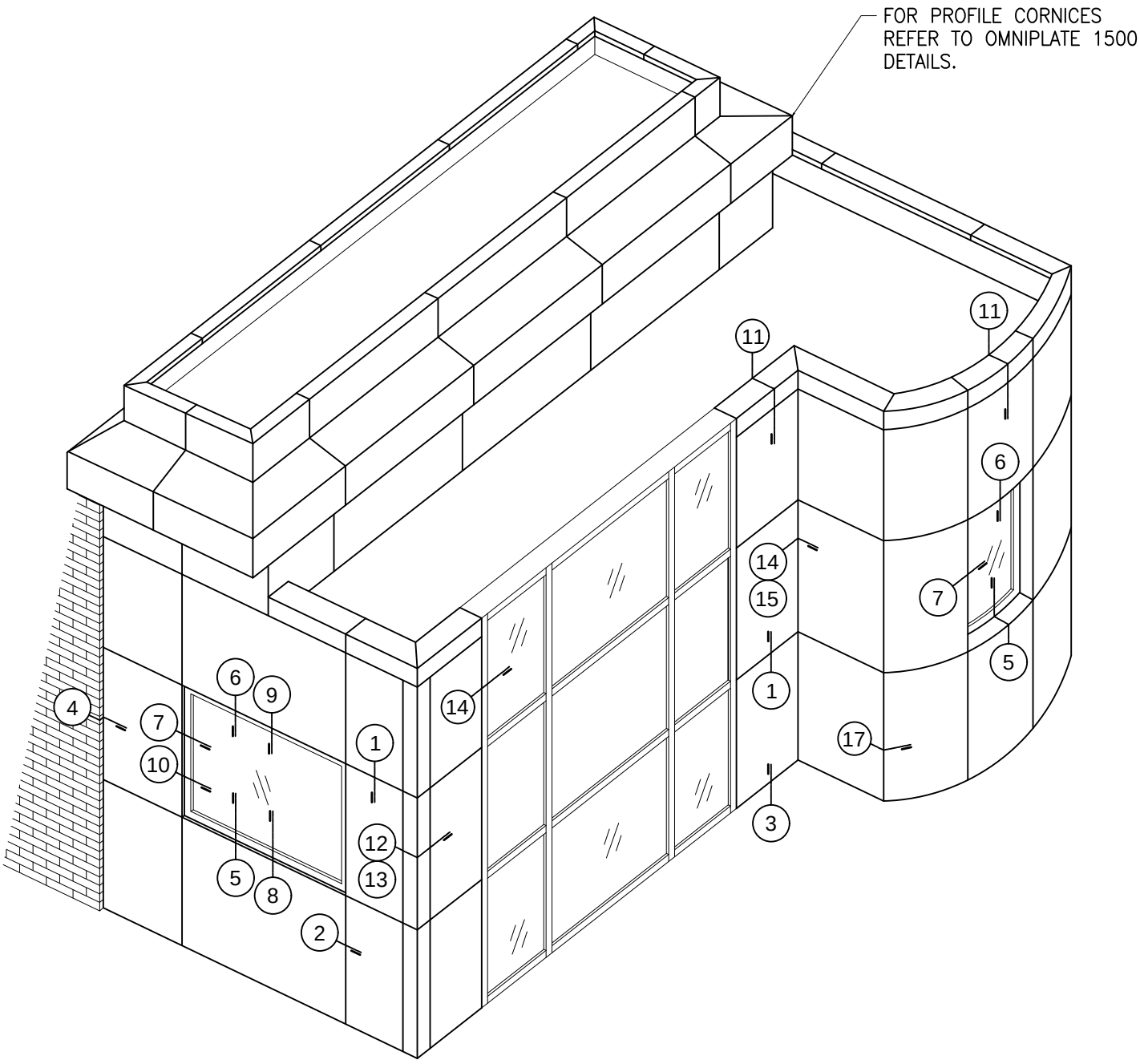
Rainscreen Wall System



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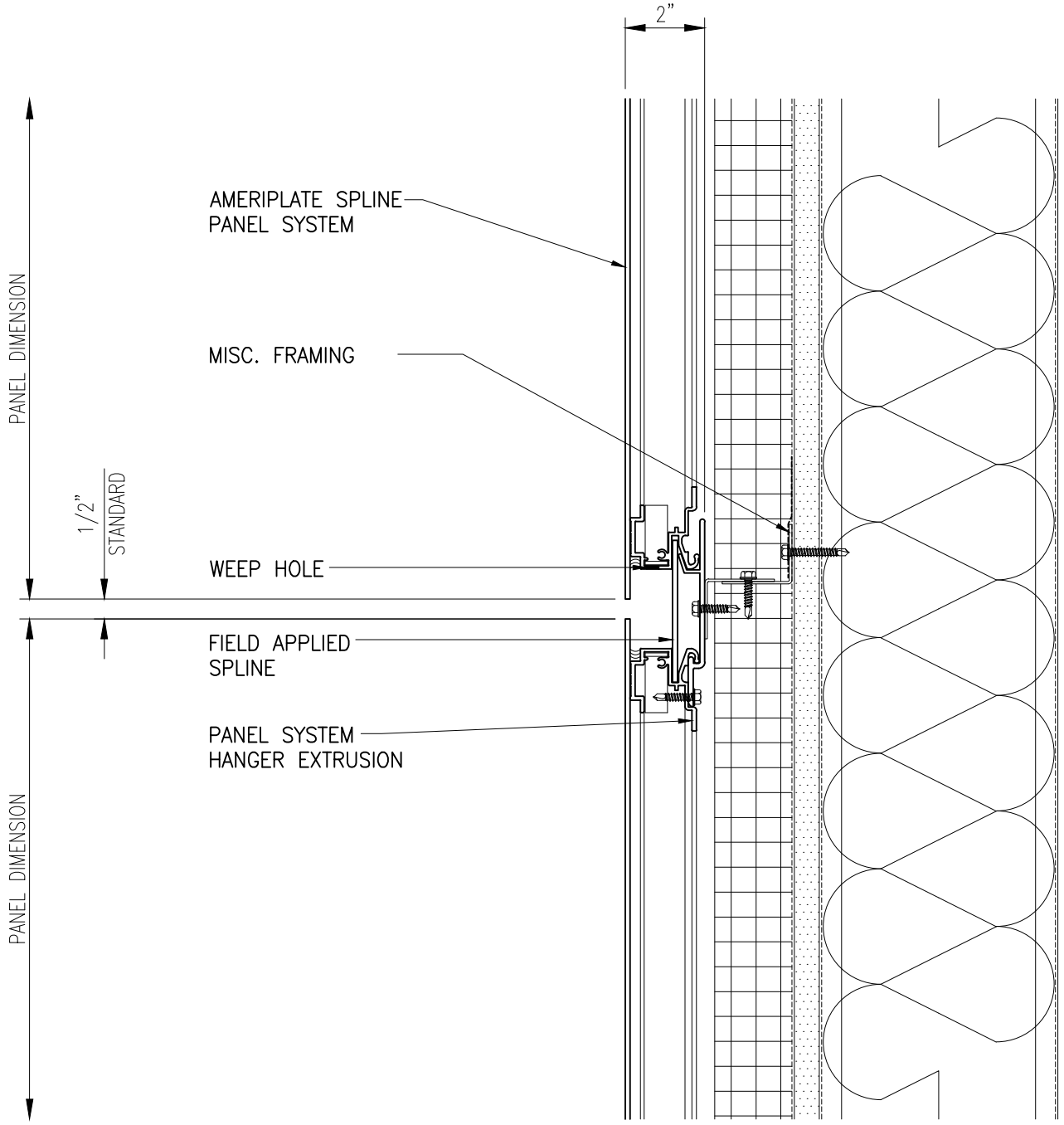
Rainscreen Wall System

PRIMARY WALL CONSTRUCTION AND INSULATION NOT BY METALWERKS. 16 GAUGE METAL STUDS MINIMUM REQUIRED



1) Horizontal Joint

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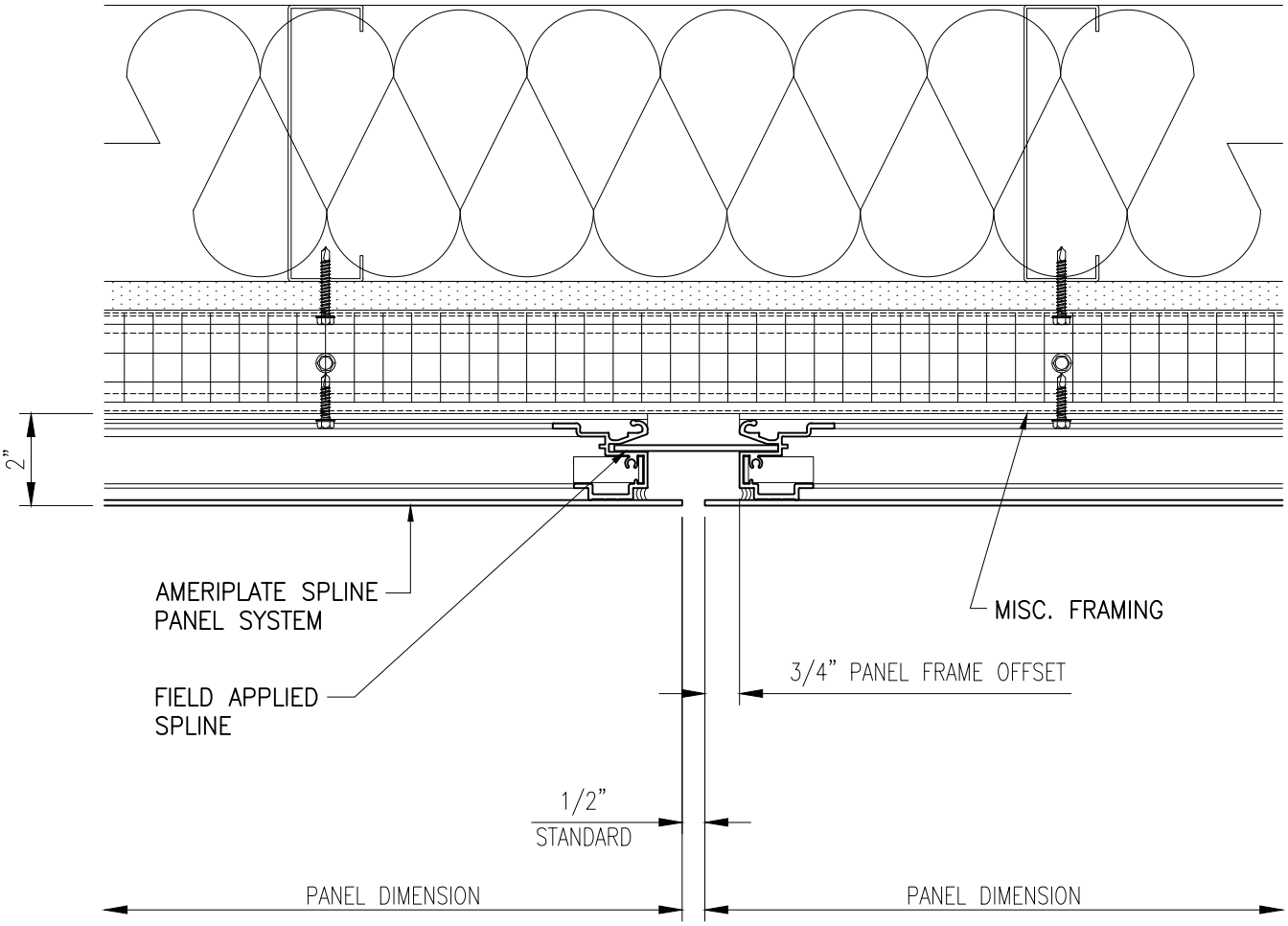

2) Vertical Joint

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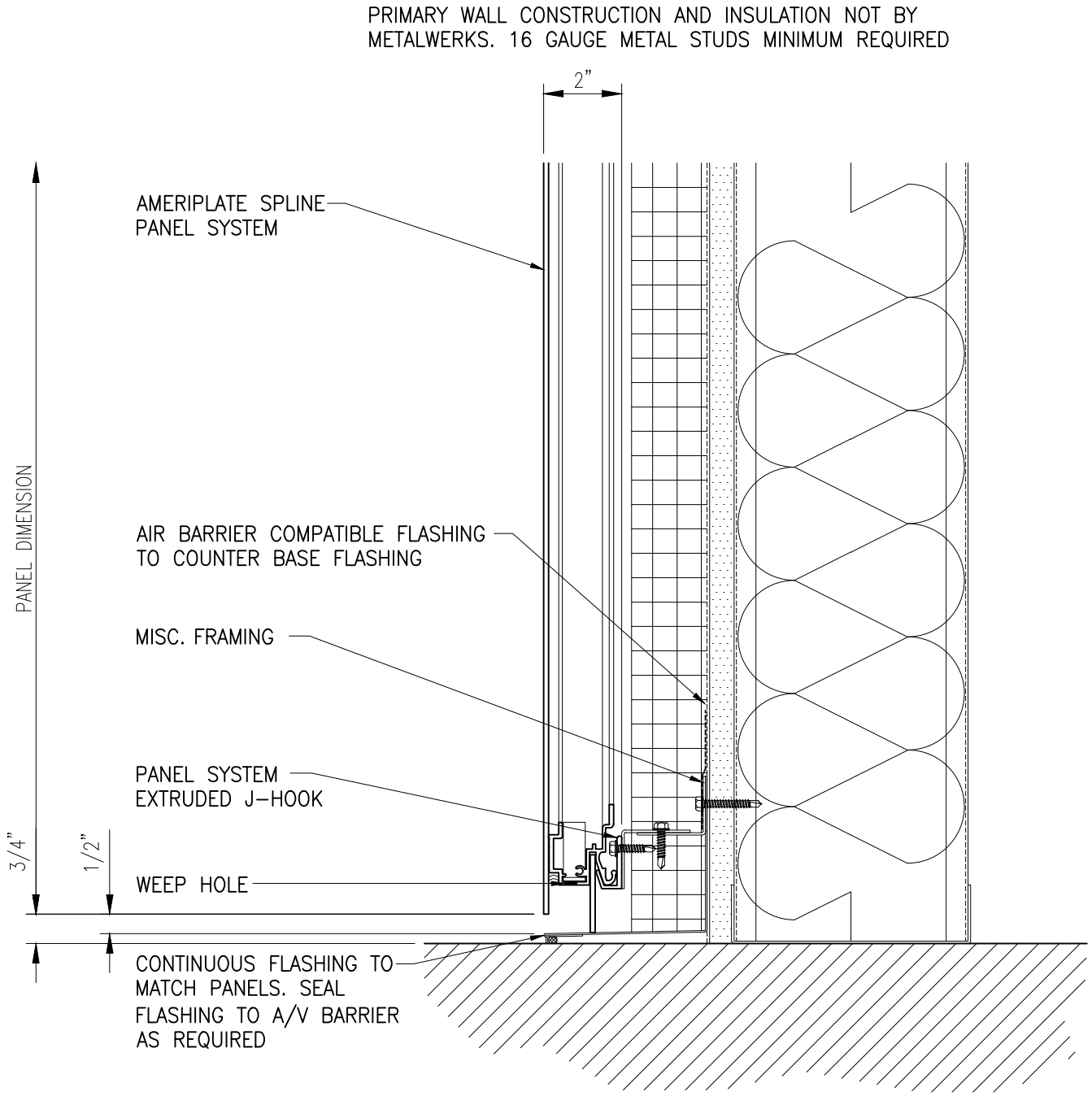

3) Panel Sill

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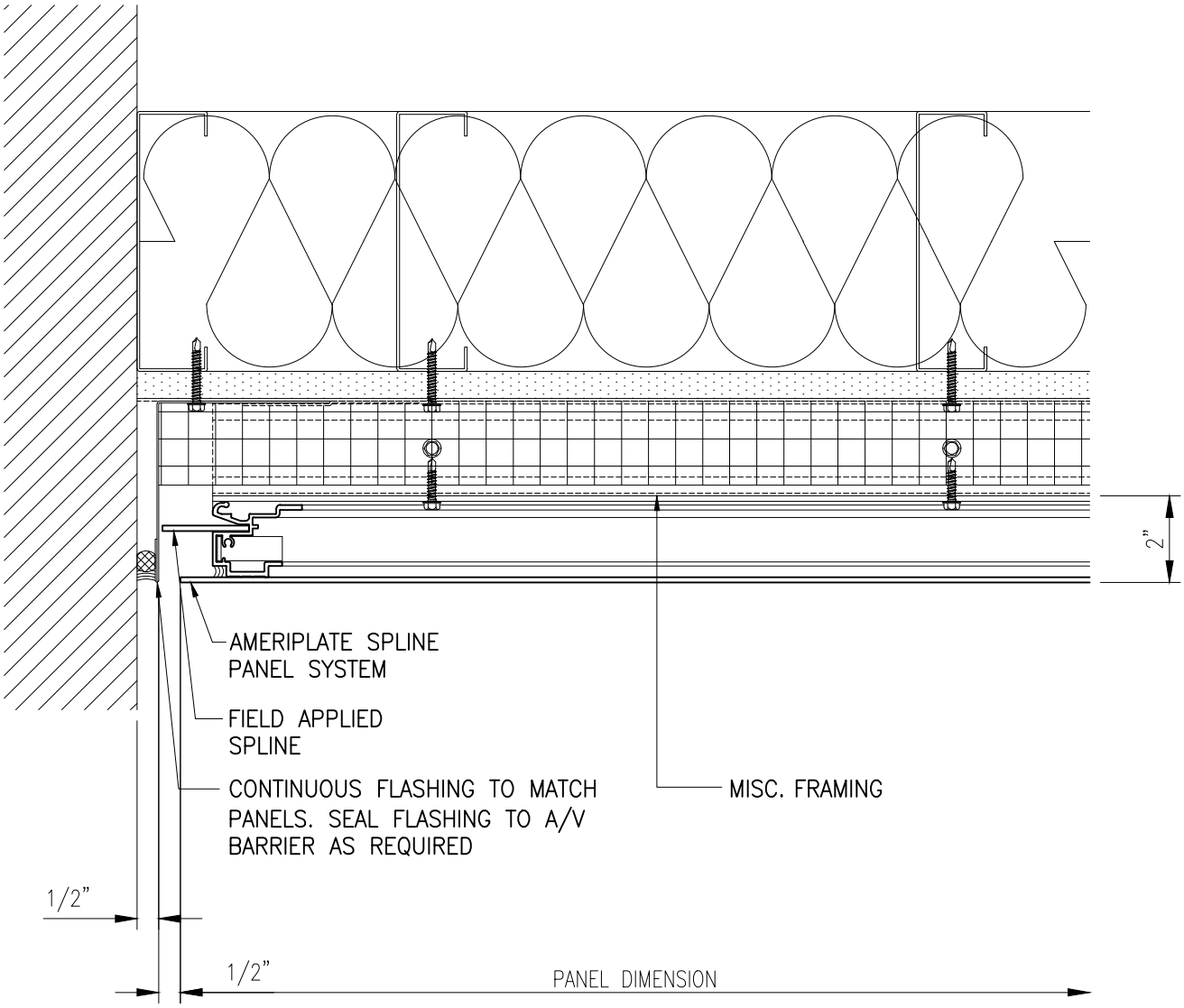

4) Panel Jamb

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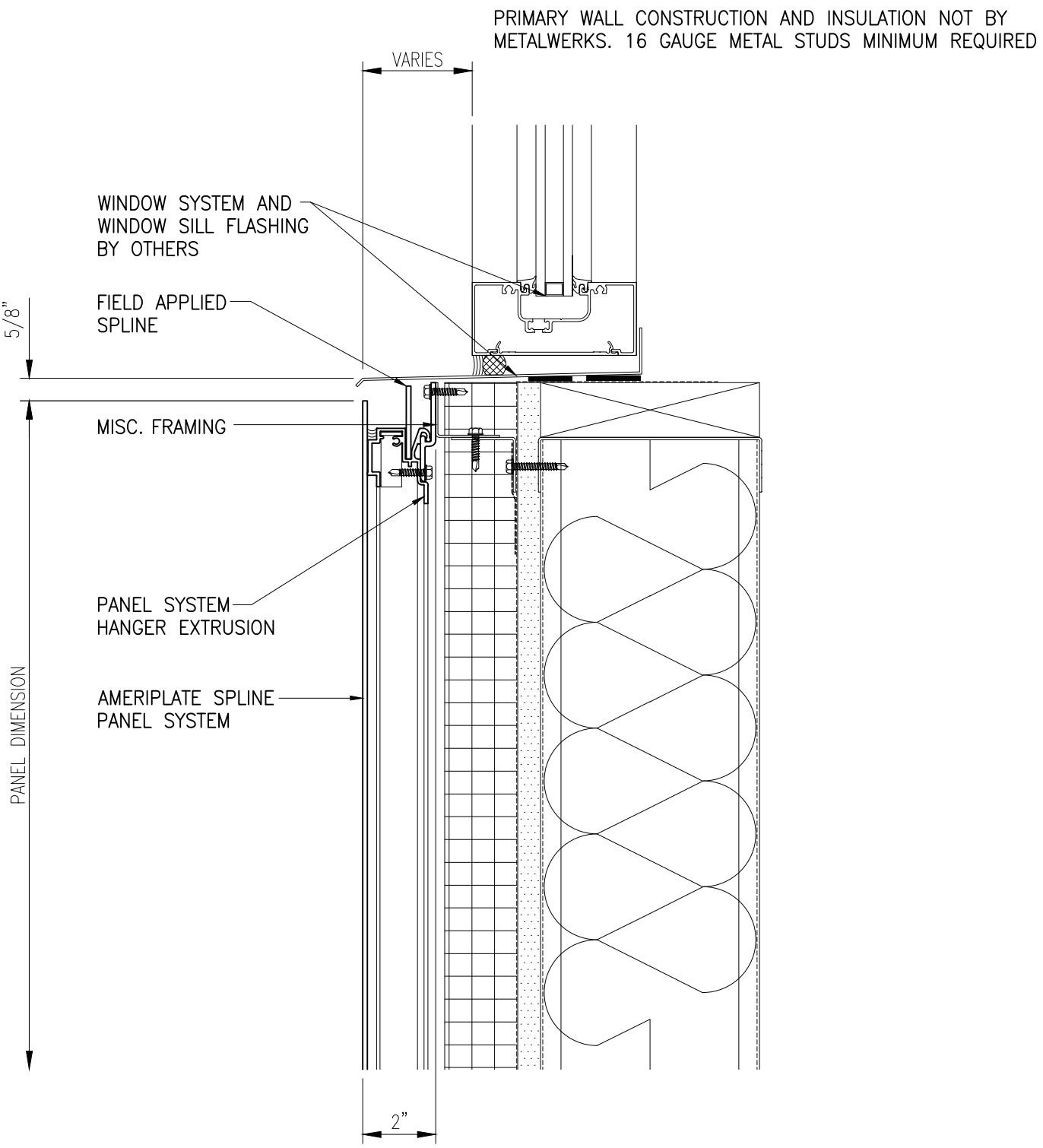

5) Storefront Sill

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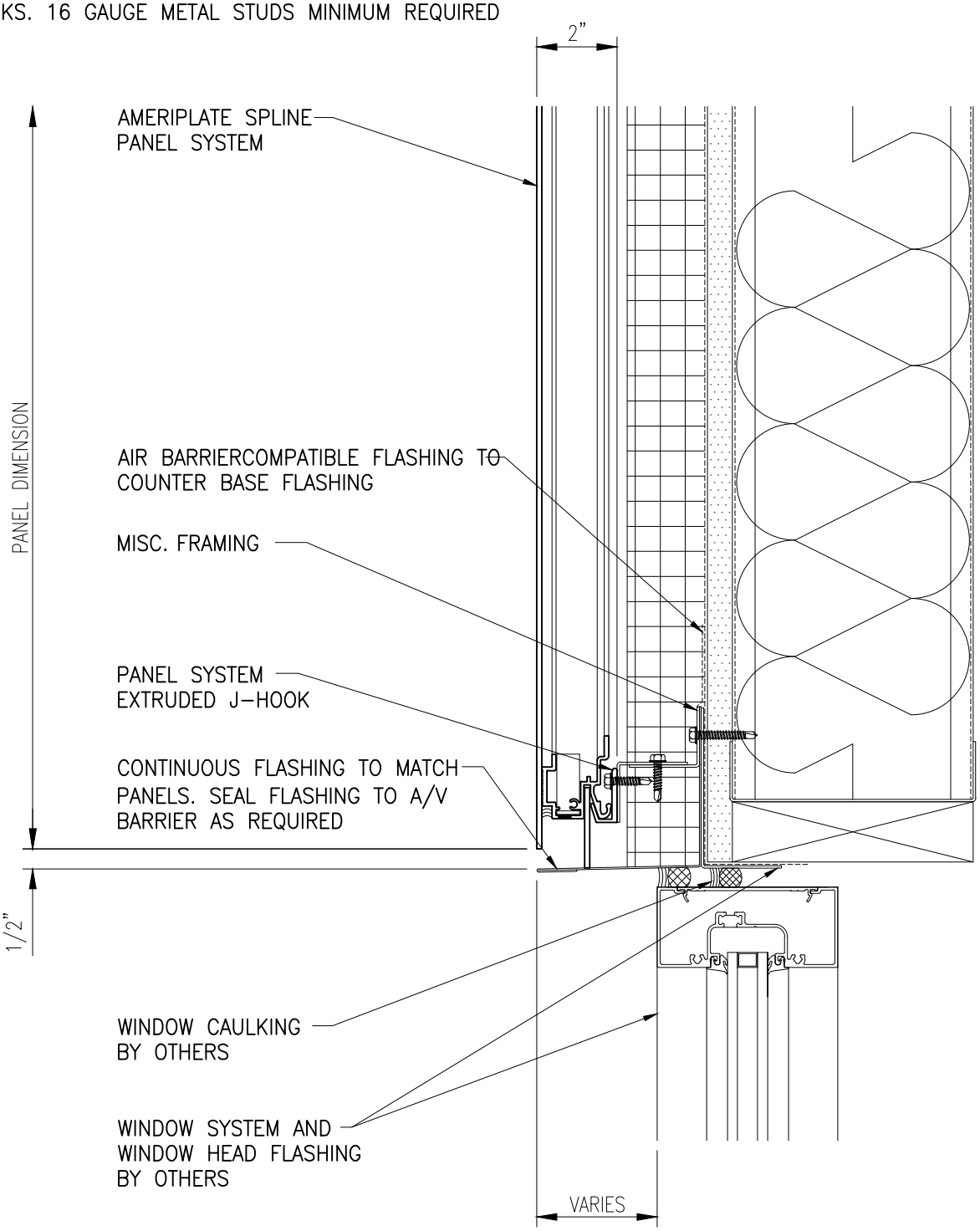

6) Storefront Head

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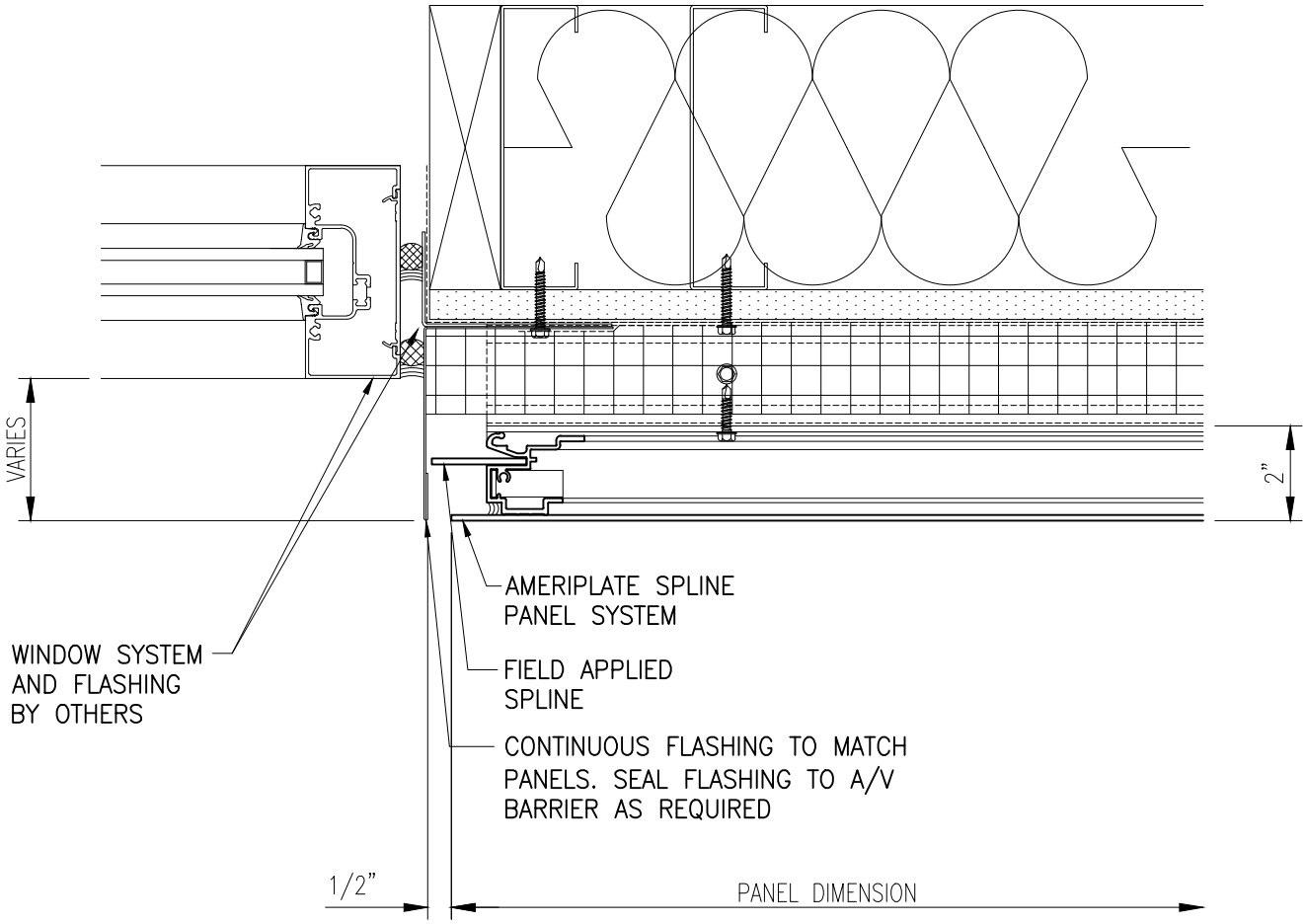

7) Storefront Jamb

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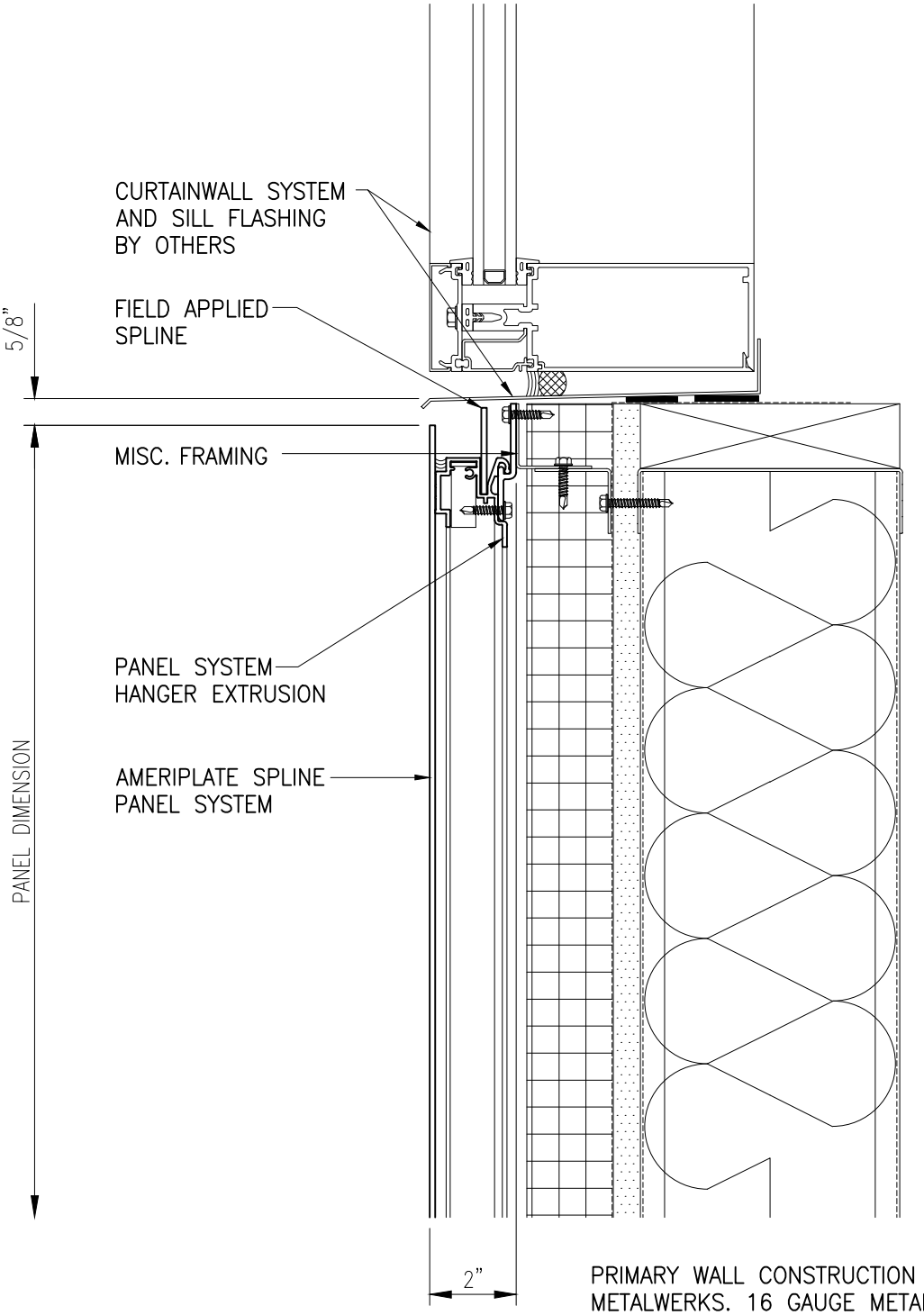

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8) Curtain Wall Sill

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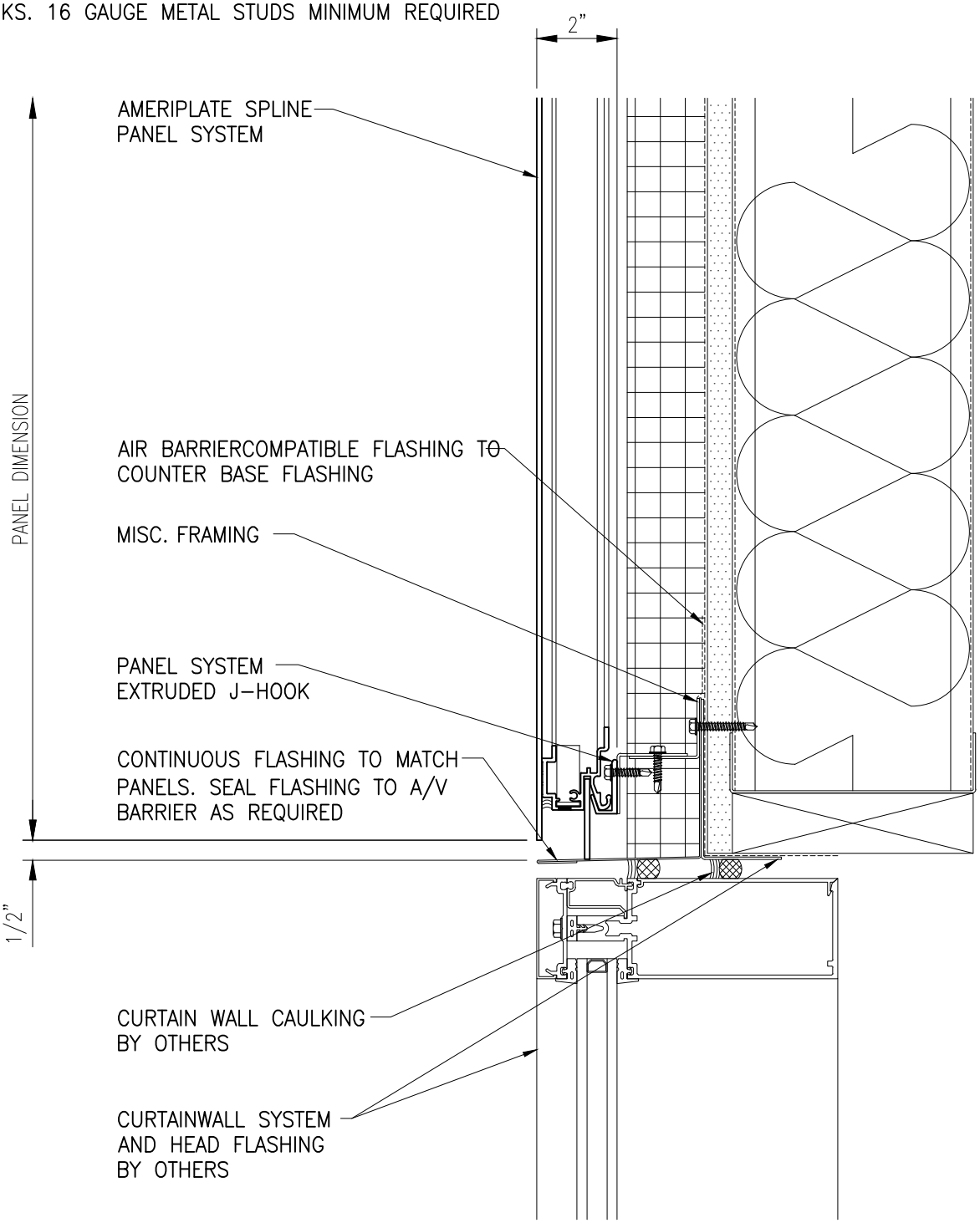

9) Curtain Wall Head

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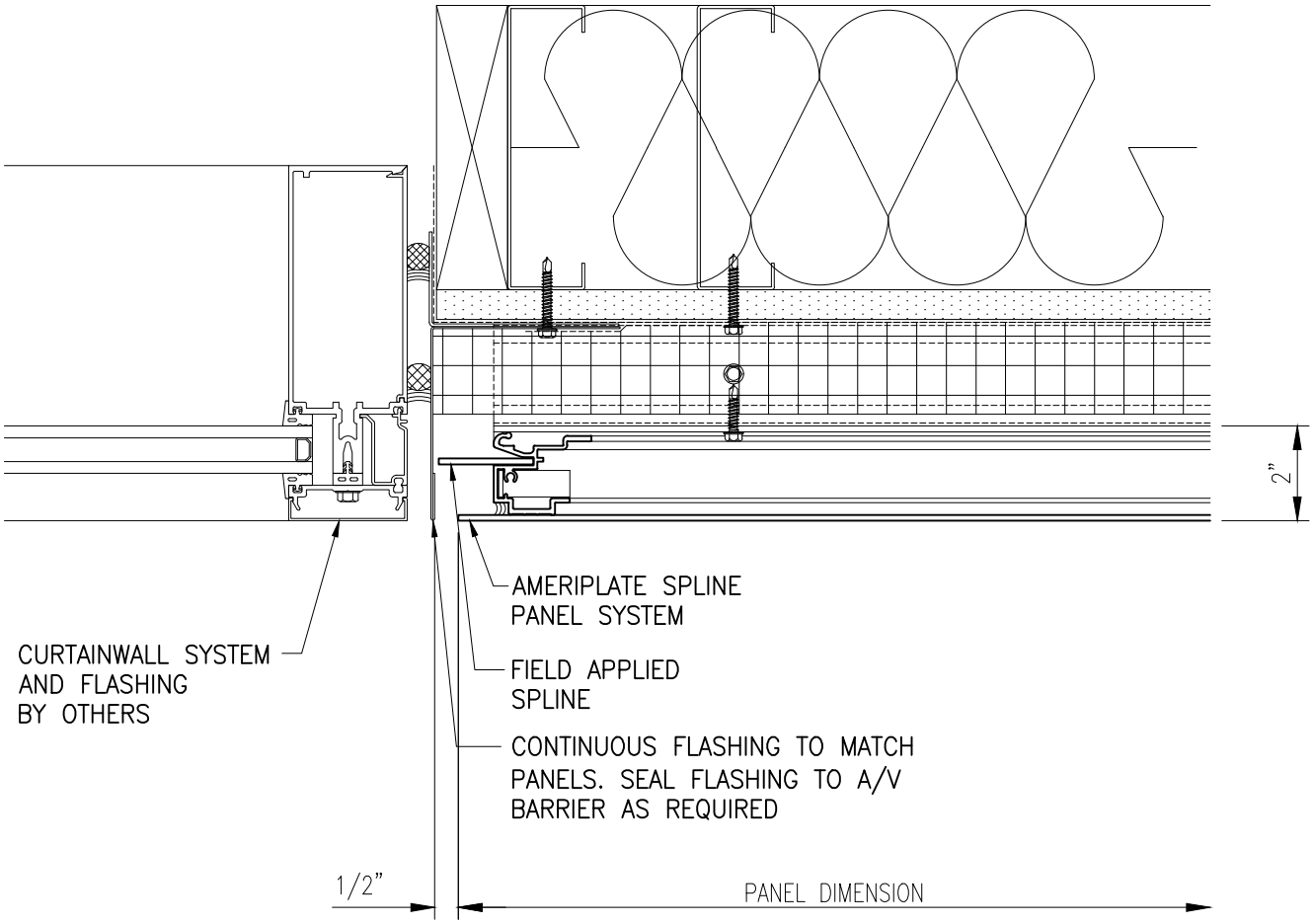

10) Curtain Wall Jamb

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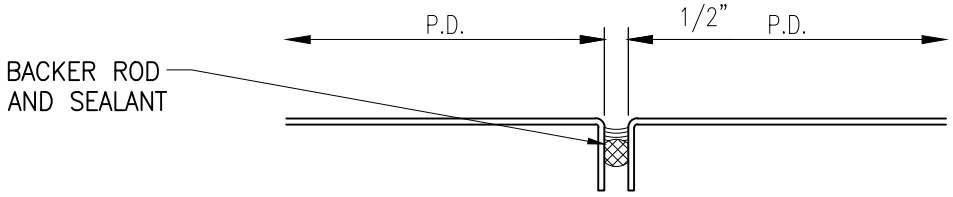
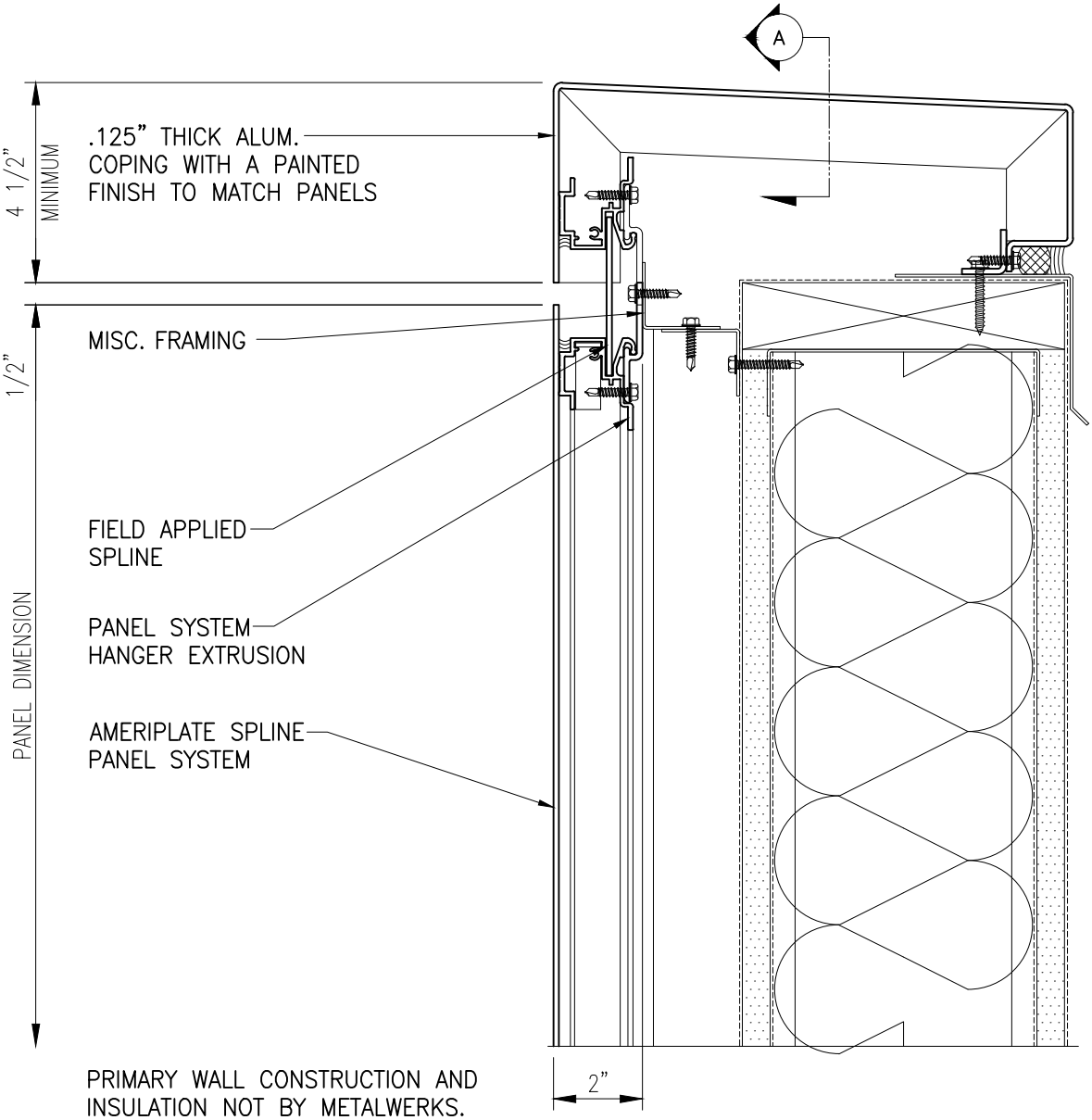


Section 'A' - Standard Coping Caulk Joint



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11) Coping

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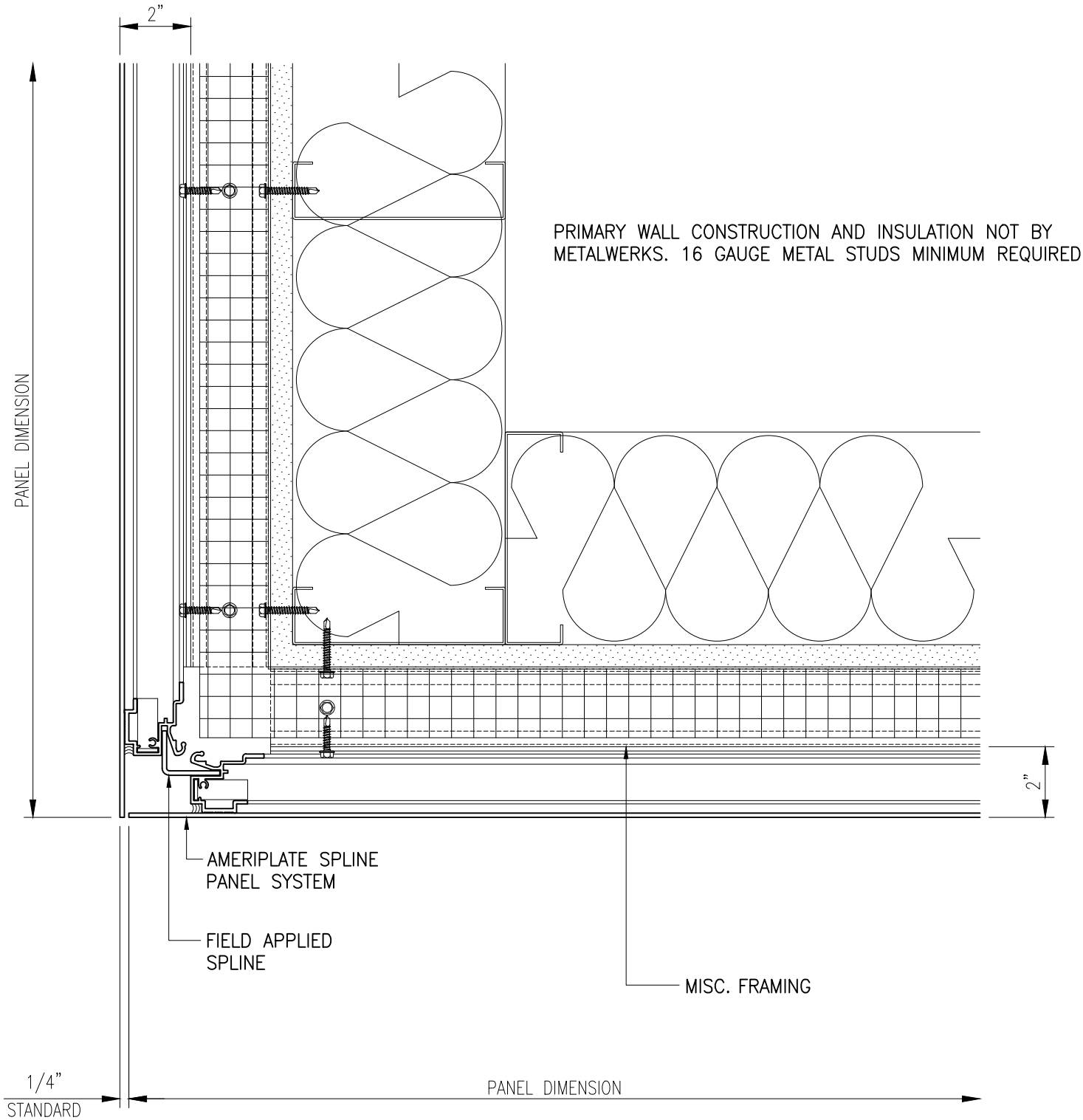

12) Standard Outside Corner

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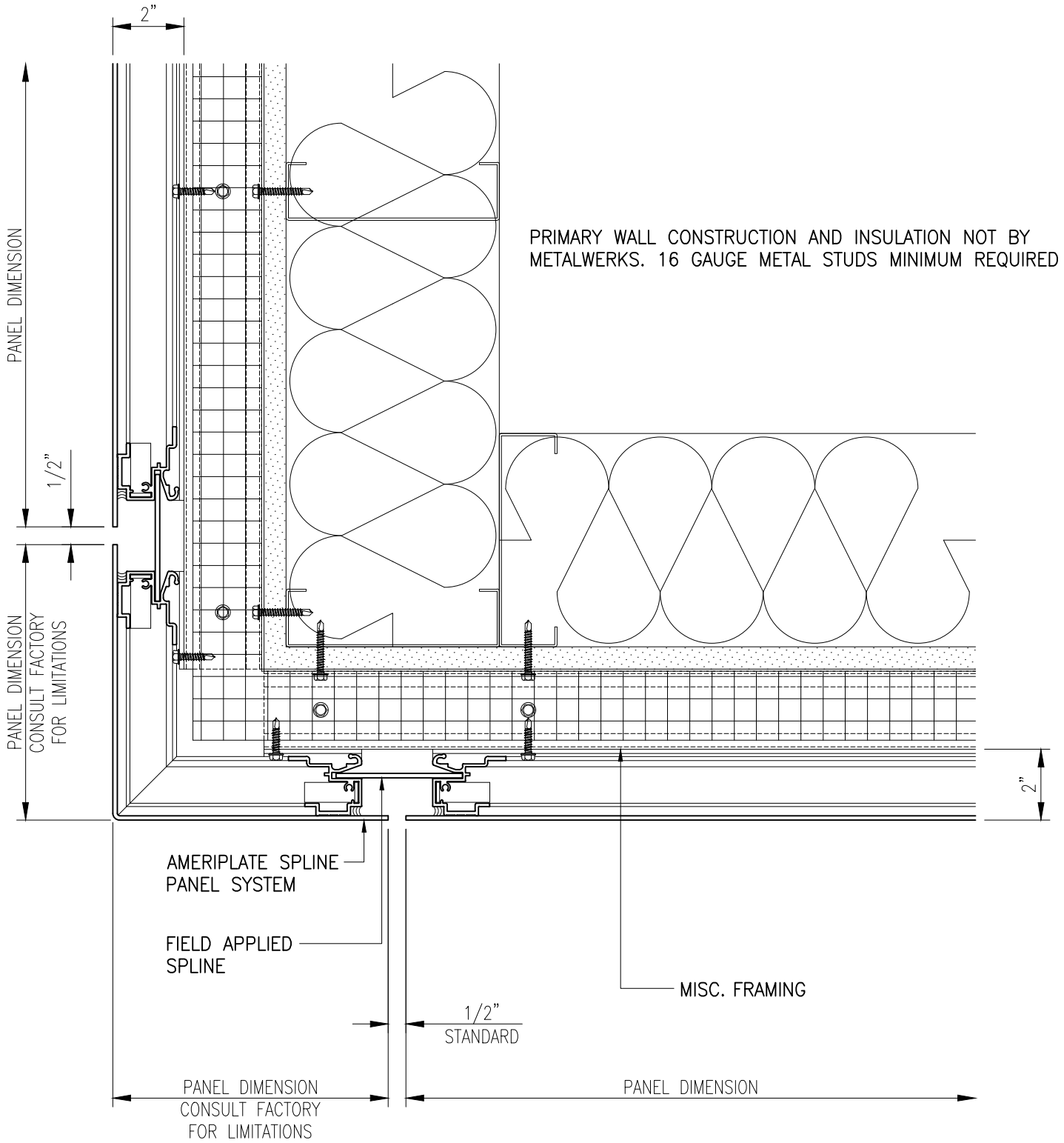

13) Optional Outside Corner

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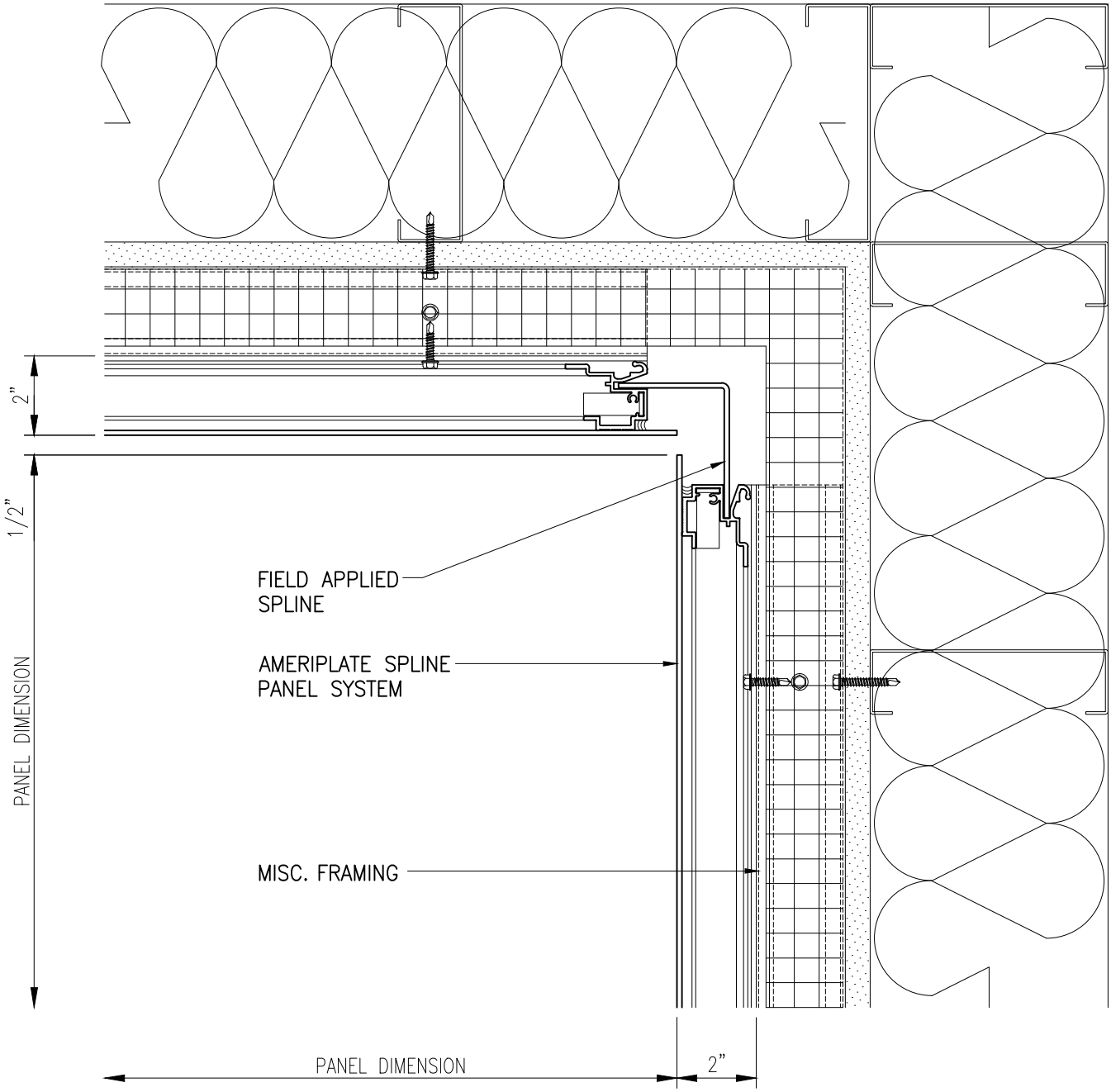

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14) Standard Inside Corner

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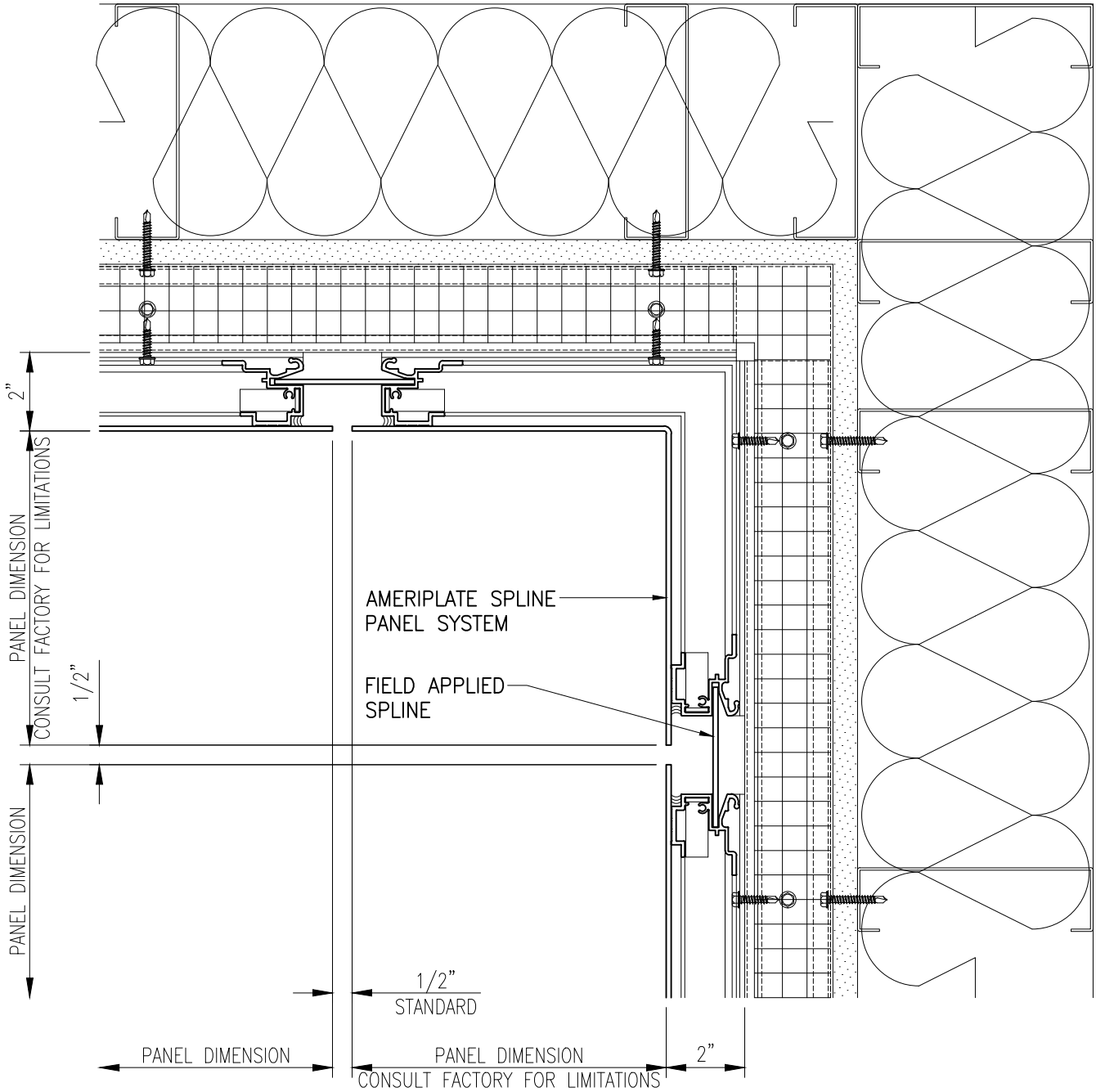

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15) Optional Inside Corner