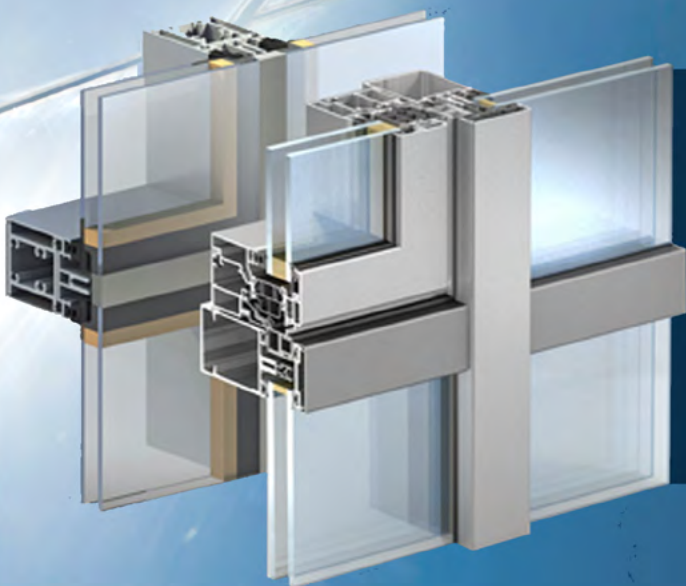


AUTHORIZED DISTRIBUTOR OF PGA PRODUCTS



# SKY WINDOWS Aluminum Products

F50



# CURTAIN WALLS



## Key features

- F50 system is a high thermal performance, exterior glazed, captured curtain wall system
- Less than 2" sight slim design
- Various thermal performance depending on glazing choices from 3/16" to 2"
- Thermal break design ensures superior thermal performance
- Offers seamless integration with high performance entrances and window systems
- Splays and corners available
- Wide range of mullion sizes and decorative components to suit design requirements
- Tested to latest high performance air, water, structural, thermal and noise transmission standards
- Aluminum supports for insulating glass units enable larger expanses of glass
- Over 200 colors available including 22 anodized finishes+ 2 wood grain patterns
- Moisture management system
- Proven tubular construction with shear blocks, other system components, condensation

## Optional Features

- Aluminum reinforcing
- Structural glazing
- Easy to install flashing
- Sloped and curved product applications
- Deep beauty caps and bull nose caps
- Deep and heavy-weight mullions
- Aluminum brackets and anchoring sleeves

## Product Applications

- Ideal for low to mid-rise applications where high thermal performance is desired
- Ideal for high span applications

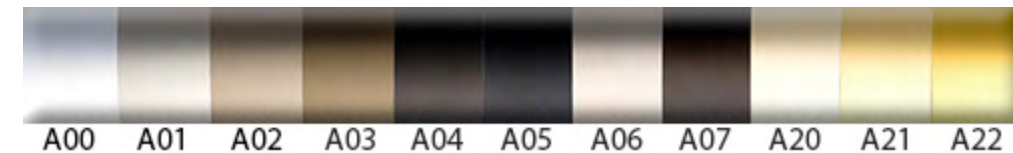
## COLOR AND FINISH GROUPS

**NOTE** – All RAL Colors from RAL K7 CLASSIC color chart <http://www.ralcolor.com/>  
Please request a sample of a specific color from PGA for accurate color pick up.  
PGA takes no responsibility for any color deviation from given reference because the colors of finished products depend solely on the coating components supplied by third parties. PGA products are painted with Swiss made coating powders by IGP.

### 0 Mill finish

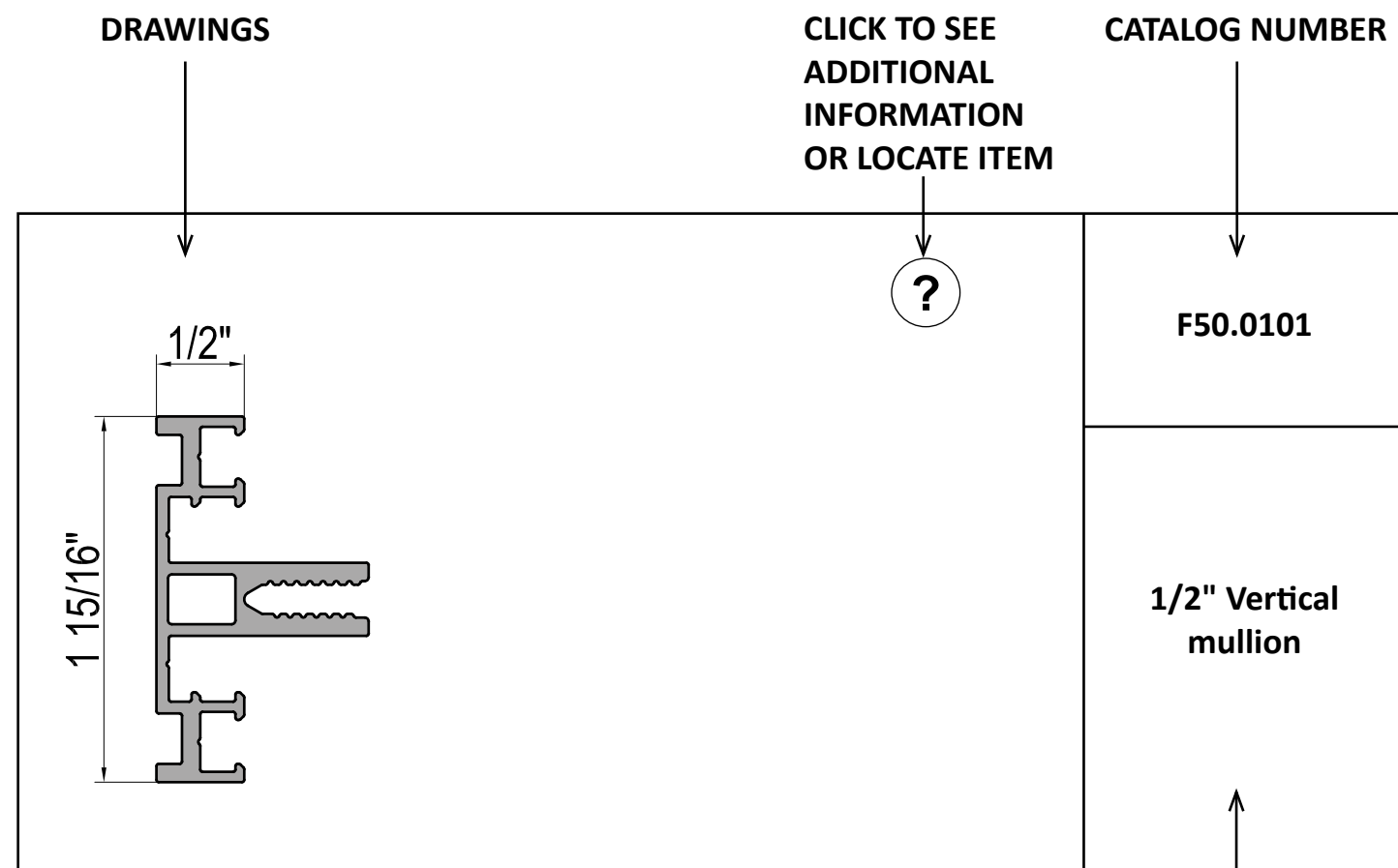
**1 All RAL K7 CLASSIC colors and Anodic: A00 – Clear, A01 – Light Bronze, A03 – Bronze, A05 – Black, A06 – Beige, A07 – Brown**

**2 Anodic: A20 – Champagne, A21 – 10K Gold, A22 – 14K Gold. Powder coated: RAL 1026, 1035, 1036, 2005, 2007, 2013, 3024, 3026, 3032, 3033, 4011, 4012, 5025, 5026, 6035, 6036, 6038, 7048, 8029, 9022, 9023**



**THE SAMPLES PRESENTED ON THIS PAGE ARE TO SERVE AS A REFERENCE STANDARD TO IDENTIFY THE COLOR SELECTED BY THE SPECIFIER. THE APPEARANCE OF AN ANODIZED OR POWDER COATED FINISH IS INFLUENCED BY MORE THAN DEPTH OF COLOR. OTHER FACTORS INCLUDE ALLOY, TEMPER, GLOSS AND SURFACE STRUCTURE. PROGRADE DISCLAIMS ANY RESPONSIBILITY OR LIABILITY AND MAKES NO WARRANTIES EXPRESS OR IMPLIED OF ANY KIND IN CONNECTION WITH THE MATERIAL AND INFORMATION CONTAINED HEREIN.**

## HOW TO USE THIS CATALOG



**CLICK TO GO BACK**



**CLICK TO SEE SECTION**

**DESCRIPTION**

## LIMITED WARRANTY

This is to certify that PROFESSIONAL GRADE ALUMINUM, CORP (PGA) warrants to its dealers, customers and all subsequent purchasers and owners of the project incorporating PGA products, subject to every term, condition and limitation stated herein, that the products supplied by PGA shall be free from material defect in materials and workmanship for a period of one (1) year from the date of substantial completion of the project, provided however, that the limited warranty period shall begin in no event later than three (3) months from the date of shipment. This limited warranty ("Limited Warranty") applies only if PGA'S products are installed and maintained according to PGA'S recommended practices and installation instructions, and only if PGA is notified in writing within thirty (30) days after such defect either (i) appears or (ii) should have been discovered after the exercise of reasonable diligence. Failure of the claiming party to notify PGA within such period shall automatically relieve PGA of any and all responsibility and/or liability under this Limited Warranty.

**THE WARRANTIES SET FORTH IN THIS LIMITED WARRANTY AND REMEDY ARE IN LIEU OF ALL OTHER REPRESENTATIONS, WARRANTIES OR OTHER AGREEMENTS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, WHICH ARE HEREBY DISCLAIMED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

This Limited Warranty does not cover, and PGA hereby disclaims all liability for the installation of PGA products, any particular application or selection of the product for any particular project or design, any parts, gaskets, glazing materials, components or sealants of other manufacturers used with PGA products, or any lack of performance of PGA'S products attributable to such items. This Limited Warranty also does not cover, and PGA hereby disclaims all liability for, any product which has been subject to abuse, alteration, neglect, misuse, abnormal use, accident, fire, war, flood, earthquakes, acts of God, or to which parts, not supplied by PGA have been added, or to defects caused by depreciation or normal wear. All decisions regarding the

existence of defects in material and workmanship and the occurrence of any of the matters described in the preceding paragraphs or affecting this Limited Warranty shall be made by PGA and shall be final and binding upon all parties.

The sole and exclusive remedy with respect to this Limited Warranty or with respect to any other claim relating to defect or any other condition or use of the products supplied by PGA, however caused, and whether such claim is based upon breach of representation, warranty, condition, contract (fundamental or otherwise), tort (including negligence), strict liability or any other theory is limited to, at PGA'S option, repair or replacement of such products or repayment by PGA of the purchase price paid for it. The remedy with respect to claims made relating to PGA fenestration and door products excludes the replacement of glass, gaskets, hardware, immediate framing, temporary enclosures or any related labor or installation costs. In no event does PGA'S warranty cover the cost of labor or sundry materials required to remove and/or replace any defective product.

The products repaired, replaced or otherwise restored shall be warranted to the same extent and to the expiration date from the original date of shipment, and this Limited Warranty shall not be deemed to have been extended from the date of such warranty work. At no time does this Limited Warranty confer upon the claiming party or any other party the right to proceed with repair, replacement or restoration, without the written notice and agreement by a duly authorized officer of PGA. Any such work undertaken by the claiming party or any other party shall be for the claiming party's own account and shall result in this Limited Warranty becoming null and void.

**PGA'S AGGREGATE TOTAL CUMULATIVE LIABILITY UNDER THIS LIMITED WARRANTY IS LIMITED TO THE DOLLAR AMOUNT OF THE PURCHASER'S ORIGINAL PAYMENT MADE TO PGA FOR PRODUCT FURNISHED BY PGA. IN CONSIDERATION OF THIS LIMITED WARRANTY, PGA SHALL NOT BE LIABLE FOR SPECIAL DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF PROFITS OR GOODWILL, DAMAGES FOR NEGLIGENCE IN THE MANUFACTURE, DESIGN OR INSTALLATION OF THE PRODUCT, OR OTHER COMMERCIAL LOSS OR INJURY.**

This is the only warranty made in connection with the sale and distribution of the PGA products. No representative, dealer or any other person is authorized to make or makes any warranty, representation or promise with respect to the PGA products. No terms or conditions other than those stated herein, and no agreement or understanding, oral or written, in any way purporting to modify this warranty shall be binding on PGA unless made in writing and signed by a duly authorized officer of PGA.

Laws and building and safety codes governing the design and use of glaze entrance, window and curtain wall products vary widely. PGA does not control the selection of product configurations, operating hardware or glazing materials, and assumes no responsibility therefor.

### **OTHER TERMS AND CONDITIONS**

**DETERMINATION OF PRICE:** Prices shown do not include Provincial Sales Tax or Goods & Services Tax or any other tax or government charge upon the production, sale or shipment of material which is effective within the life of the sales contract, all of which will be paid by the customer. All prices are subject to change without notice, and are not guaranteed against change. Inventory adjustments will not be made. Stenographic and clerical errors made by PGA on an acknowledgement or invoice shall be subject to correction.

**NOTE:** In the event that a discrepancy arises between the index and the body of the price catalog, the information contained in the body of the catalog will take precedence.

**PRICE PROTECTION:** In the event of a price decrease, unshipped orders, with the exception of special sales contracts covered by a lot or job estimates, will be invoiced at the new and lower prices. In the event of a price increase, orders on hand will be invoiced at the prices in effect when the orders were received, provided, however, those shipments are made at PGA'S convenience thereafter. PGA quotations on specific jobs made in writing by PGA are valid (or firm) for thirty (30) days.

**ACCEPTANCE OF ORDERS:** All orders are subject to approval and acceptance by a duly authorized representative of PGA.

The acceptance of orders constitutes a complete and binding contract which cannot be modified or canceled without written consent of both parties, except that all orders are accepted subject to delays caused by strikes, fires or any other causes (including those set out in the section "Force Majeure" below) beyond the control of PGA. All orders are accepted subject to governmental regulation on material usage, whenever applicable.

**MINIMUM ORDER SIZE:** Will depend on product and minimal quantity will be advised at the time of quotation.

**PAYMENT:** PGA stated payment terms are COD, unless otherwise approved in writing by a duly authorized representative of PGA. Early payment discounts are available. Please contact PGA for additional information.

**CREDIT CARD PAYMENT (U.S. Customers Only):** PGA will accept credit card payments. Credit Card invoices are paid in advance upon acceptance of invoice. Early payment discounts are available with credit card payments. Please contact PGA for additional information.

**FREIGHT CHARGES AND RISK OF LOSS:** Unless stated otherwise, all items are shipped F.O.B. PGA manufacturing facility.

**CLAIMS:** No claims due to errors, shortages or rejection because of defects or defective materials ascertainable on visual inspection will be considered unless reported to PGA within ten (10) days after receipt of shipment. Claims for damages resulting from delays or use of defective materials will not be honored.

**DELIVERY:** Orders should include complete shipping instructions. PGA reserves the right to ship as it deems advisable unless specific instructions are given. PGA will use

reasonable efforts to meet delivery dates but such dates are deemed approximate and PGA shall be allowed a reasonable variance from all such dates.

**FORCE MAJEURE:** PGA shall not be liable for delays or inability to perform due to strikes, labor disputes, lockouts, fire, flood, war, declared or undeclared, insurrections, riots, acts of God, embargoes by foreign nations, inability to obtain or unusual delay in obtaining materials, shortages of power needed to operate PGA facilities, governmental regulations or priorities, or any other cause beyond the control of PGA. In case of any delays in receipt or shortages of materials or shortages of power needed to operate PGA facilities, PGA reserves the right in its sole discretion to determine the assignment of materials, and the order of priority in filling orders. PGA also reserves the right in its sole discretion to cancel order by written notice in the event PGA believes that by reason of the foregoing it will not be able to meet the scheduled completion date.

**INDEMNIFICATION:** Customer is solely responsible for proper selection and installation of PGA products as well as the incorporation of PGA products into other products (if this is applicable). Customer agrees that it will use PGA products only for their intended uses and according to specifications and limitations established by PGA from time to time. Customer shall indemnify and hold PGA harmless from and against any and all damages arising out of or relating to improper selection, application, use or incorporation of products or abuse of products.

Laws and building and safety codes governing the design and use of glazed entrance, window and curtain wall products vary widely. PGA does not control the selection of product configurations, operating hardware or gazing materials, and assumes no responsibility therefor. It is the responsibility of the customer to determine at the time of order entry or revision, whether PGA material and products meet any federal, state, provincial and /or local law interpretation and regulations, including those relating to building construction, safety and to the Americans with Disabilities Act of 1990 and any other similar federal, state, provincial or local statutes.

**ORDER CANCELLATION AND CHANGE CHARGES:** In the event a customer changes an order or cancels or partially cancels an order that has already been accepted by PGA, PGA may assess a charge to the customer for costs incurred in performance of that portion of the order that has been changed or cancelled up to and until the time PGA receives notice of the change or cancellation.

Customer orders for special materials (those not described in the effective price book), or for products fabricated specifically to customer's dimensions or other specifications, or where special materials or services are procured by PGA for use on customer's order, or where drafting or take-off services have been performed, will be subject to charges for cancellation or change for those costs incurred in performance of that portion of the order that has been cancelled or changed up to and until the time PGA receives notice of the change or cancellation.

**BALANCE DUE MATERIALS:** Any portion of an order not included in an original shipment because of shortage of stock or other cause beyond PGA'S control will be invoiced at the same price and on the same terms as if included in the original shipment.

**INSTALLATION:** PGA hereby disclaims all liability for, and is not responsible or liable for, any damages or costs that may result from improper installation of its products. It is the responsibility of the customer purchasing a PGA product to ensure that the PGA product is installed properly and in accordance with PGA'S printed instructions. This responsibility is retained by customer even though the product may be resold for installation by a third party. PGA will not be liable for damages and costs that result from improper installation of PGA products, regardless of who actually performs the installation.

**SAMPLES:** Samples are available at cost (net). Standard samples are shipped from PGA's headquarters located at: **701 39TH Street Brooklyn, NY 11232.**

**SPECIAL LENGTH CHARGES:** For special length painted material requirements, consult with a PGA officer for pricing.

**DOORS AND WINDOWS:** PGA offers furnished to order products as well as a full range of components for doors and windows. Please contact PGA for a quote for finished product as well as assembly components.

**HARDWARE:** PGA uses only premium European hardware by DR. HAHN, FAPIM, SAVIO, ICSA, GIESSE. PGA normally doesn't install custom hardware, however depending on quantity this might be applicable to some orders. Please contact PGA for more information. Please contact PGA for more information.

**EQUIPMENT AND TOOLS:** Any equipment or tools for aluminum profiles processing manufactured by third parties and supplied by PGA are covered by respective manufacturer's warranty.

**SHOP DRAWINGS:** PGA products may be detailed by PGA to confirm specifications. In such cases, drawings will be submitted to the customer for approval. PGA will fabricate in accordance with dimensions and specifications shown on the customer approved drawings but will take no responsibility for failure of the customer to check drawings against job site conditions or for any other purpose. Special entrances cannot be scheduled for production until the approved detail, with the customer's signature, has been received, and all special hardware is in PGA'S possession. Changes made to any drawing after approval of details by customer may involve additional charges on the order.

**GOVERNING LAW:** The sale of PGA products hereunder with shipping addresses located in the United States shall be governed by the laws of New York State, excluding its laws related to choice or conflicts of law.

**ILLUSTRATIONS:** The illustrations within this catalog are for part identification only, and do not indicate size or proportions by comparison.

**ENTIRE AGREEMENT:** The Limited Warranty and Remedy and Other Terms and Conditions set forth the entire agreement between the customer and PGA relating to the sale of PGA'S products to customer.

## **FREIGHT CLAIM PROCEDURE GUIDE**

**INTRODUCTION:** PGA strives to ship its product on safe, cost-effective carriers who understand the challenges of handling architectural aluminum products. Due to the typical order size of our shipments, much of our product ships via the LTL or Less-than-Truckload system. Although our order sizes warrant LTL shipping, our product's dimensions and finishes do not. PGA ships its product under FOB Origin freight terms. The transfer of ownership of the freight takes place at the origin (shipping point or PGA facility). Based upon those shipping terms, the freight is owned by the customer while it is in transit from PGA to its destination, regardless of freight payment terms (Prepaid or Collect). PGA makes every effort possible to assist with loss and damage freight claims for our customers, but it is the responsibility of freight owner to file any freight claims that occur while it is in transit. The following information is provided to assist our customers with the freight claims process.

**LESS-THAN-TRUCKLOAD DEFINED:** Less-than-Truckload carriage is characterized as multiple shipments consolidated into a single system that will be sorted and transported through a terminal network and relay points for delivery to multiple destinations. These establishments are generally characterized by the following network activities: local pickup, local terminal operations (sorting), line-haul (terminal to terminal), destination terminal operations (sorting), and local delivery. Freight can experience the sorting or cross-docking process at several terminal locations prior to reaching its destination terminal. The majority of freight damage occurs in this multiple-handling process. A Less-than-Truckload shipment is one which does not completely fill a truck or which weighs less than the weight required for the application of a full truckload freight rate. The historical definition for LTL freight is shipments under 10,000 pounds and not exceeding 28 linear feet of a trailer, but would differ from carrier to carrier.

**LESS-THAN TRUCKLOAD PRICING:** Generally, LTL freight rates are dependent upon weight, distance, freight classification and freight discounts. LTL carriers classify freight based upon the guidelines of the National Motor Freight Traffic Association (NMFTA).



The Classification is a system that catalogues and equitably groups all commodities moving in commerce into 18 classes (classes 50 through 500) according to their "transportability," as reflected by the four composite transportation characteristics prescribed by the ICC and the Department of Transportation's Surface Transportation Board. These characteristics are as follows: 1) density; 2) stow ability; 3) ease or difficulty in handling; and 4) liability. These freight classes establish equitable relationships between commodities and allow for fair pricing guidelines. The volume of freight a shipper has to offer affects price discounts as well. PGA has freight rate contracts with many carriers, and we apply that discount to your shipment when possible. PGA'S stock lengths fall under the Aluminum group. The classification of our 22'-4" aluminum extrusions falls under Aluminum: Lineal Shapes or Molding with a NMFC freight class of 60. Our assembled doors and windows ship under a NMFC freight class of 100 and our unassembled door frames ship under a NMFC freight class of 100. Our hardware and rubber weather strip/gasket both fall under a NMFC freight class of 70.

**RECEIPT OF FREIGHT:** It is extremely important that you take the time to receive your shipment properly. You should be receiving a PGA Packing List with each shipment. The Packing List allows you to effectively check your material into your facility, as it is unloaded. Visually inspect the condition of the freight while it is on the trailer. Any noticeable packaging damage should be addressed with the carrier's agent or driver and noted on the Bills of Lading (or Delivery Receipt) signed by both you and the driver. It is highly recommended that each and every customer invest in a digital camera to take pictures of the damage while it is still on the carrier's trailer. Photographs of the freight's condition immediately upon arrival to your facility greatly enhance the validity of the claim and expedite the process.

Following the visual inspection of the freight on the trailer, unload the freight. Prior to the driver leaving the dock, check your shipment carefully to see that it is in good order and all accounted for. Check for signs of damage that were concealed while on the carrier's trailer. Under NMFC rules, officially you do not have the right to open the packaging prior to signing for the freight (Delivery Receipt). It has not officially been

released to you. Some carriers may use this against you when filing a claim. So with the driver present and with his consent, open and inspect any damaged packaging and check for concealed damage to the material. You may wish to call the carrier terminal prior to doing this to get official direction in this inspection process. Write a precise description of the missing or damaged freight on both the carrier's copy and your copy of the Delivery Receipt. Based upon the PGA'S terms of sale, the customer owns the freight while it is in transit. A carrier's driver may suggest that you simply refuse the shipment if it contains damage. Based on the freight terms, you own this material, and refusing it will cause more complications between you and the carrier. Do not refuse a PGA shipment due to the FOB terms of sale, otherwise the carrier will be calling you with regard to additional handling and service fees.

**SHIPMENT SHORTAGE/LOSS:** If you feel part of your shipment is missing, verify the quantities against what is indicated on your Delivery Receipt and Packing List. Write a precise description of the shortage on both your copy and the carrier's copy, signed by both you and the driver. Make sure to have the following information available for the call:

- Freight Bill Number
- Billing Date on the Delivery Receipt
- Name of the Shipper
- Name of the Consignee
- Number of total pieces and missing pieces
- Weight of the shipment
- Delivery Date
- Precise description of the missing items
- Any part number, box number, or serial number listed on the missing piece(s)
- Any additional information to assist the carrier in locating the material (size, shape, color, etc)

**VISIBLE DAMAGE:** If the packaging of your shipment contains visible damage, take pictures and ask driver to make note of damaged packaging. Ask the driver to inspect

the material with you as you open the packaging. Again, write a precise description of the damaged freight on both the carrier's copy and your copy of the Delivery Receipt.

**CONCEALED DAMAGE:** If later you determine that there was freight damage to your material, report it to the carrier by calling them immediately. Reporting freight damage must be done within fifteen (15) days, but doing so immediately will reduce the impression that you caused the damage while the material was in your possession. Ask for an inspection of the material by a representative of the carrier. While you wait for an inspection, make every attempt to leave the material as it was when you first discovered the concealed damage or loss. A representative of the carrier will discuss the damage and loss with you over the phone and determine whether or not a formal inspection and written report will be required. An inspector may be dispatched to your facility, or the inspection will be waived and you may be asked to do an inspection yourself. Keep a written statement documenting the inspection. Many carriers have a Waiver of Inspection that allows you to document your own inspection of the material. It is not a claim form, and should not be considered acceptance of a claim.

**CLAIM DEFINED:** A claim is a written demand for payment by the owner of a shipment to the carrier for loss or damage occurring during transit. A carrier is required to acknowledge a claim within thirty (30) days. A claim and its supporting documentation is required to be filed within nine (9) months of delivery or expected delivery. According to the NMFC, all submitted claims must be acknowledged by the carrier with thirty (30) days. They must rule (pay, refuse to pay, or pending) on a claim within one hundred and twenty (120) days. If pending, they must provide an update every sixty (60) days regarding the status of the claim and the reason for failure to resolve claim. Most claims are settled (not necessarily paid) within 30 days.

**CLAIMS PROCESSING:** Lost or damaged material occurs during the shipping process. Carriers are responsible for any lost or damaged goods that arrive at your facility, and claims obviously affect the financial well being of the carrier. They have highly trained

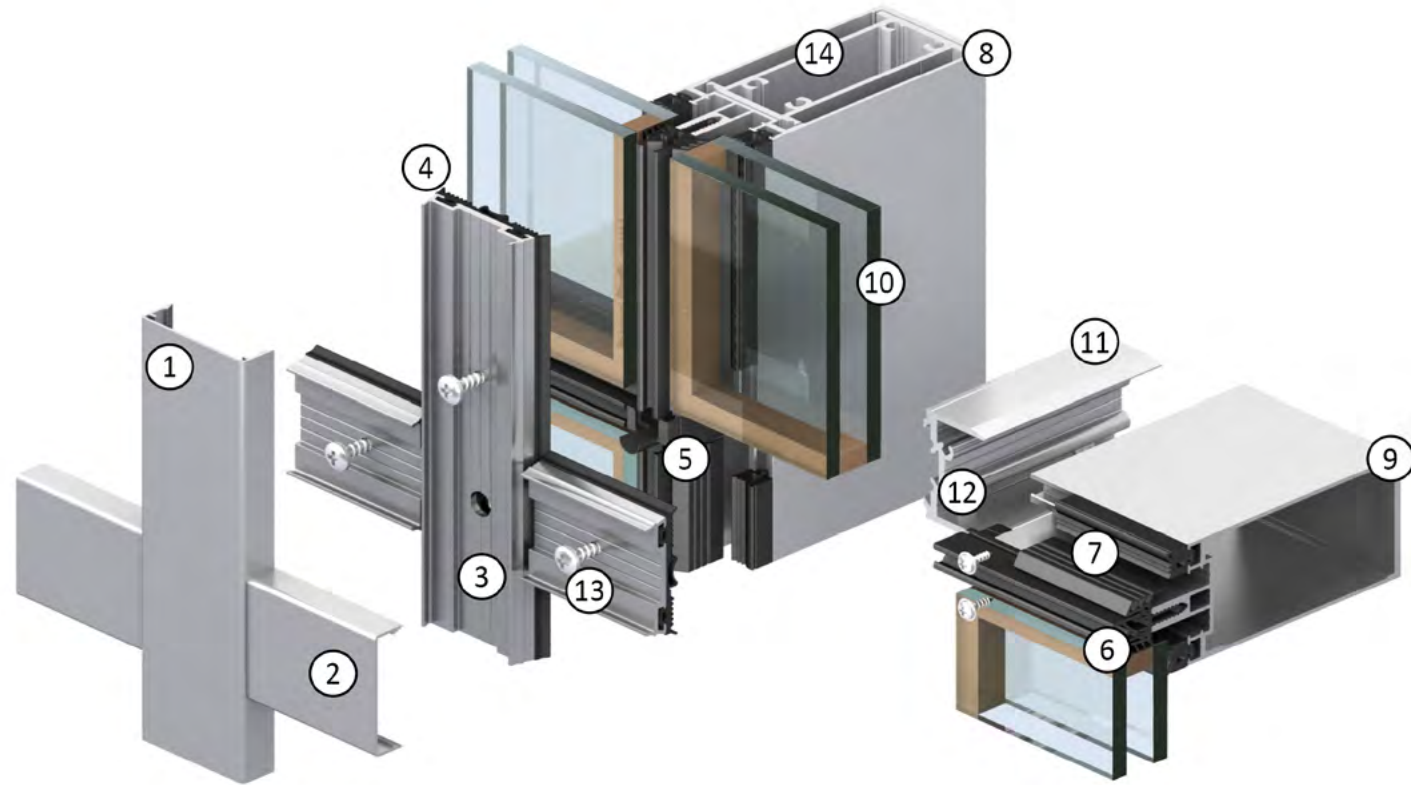
claims processors that know the ins and outs of freight damage loopholes. Carriers will make every effort possible to create a basis to deny a freight claim. Claim forms can be found on carrier websites. Carriers can also send you a blank claim form via facsimile. A specific form is not mandatory. Either way, the following information must accompany the freight claim:

- The Vendor invoice for the goods shipped [price paid (after discounts, deductions, etc.)]
- A copy of the Freight Bill Invoice from the carrier
- A copy of the Bill of Lading
- Detailed repair invoices (if damaged goods have been repaired)
- An inspection report of the damaged goods (either done by a carrier representative or one performed by you – Waiver of Inspection, Concealed Loss Report, etc.)

The claim should be submitted and all communication with the carrier regarding the claim should be documented. Make copies of all documents sent to the carrier.

**NOTE: Products illustrated in this catalog are part of standard systems available from PGA. We have the option to work on any custom product requested by the client. Prices need to be discussed at time of ordering. Our engineers possess unique knowledge on special applications of PGA products and integration of products by third parties into PGA systems. If you need more information regarding utilizing of system components please contact Professional Grade Aluminum for further assistance.**

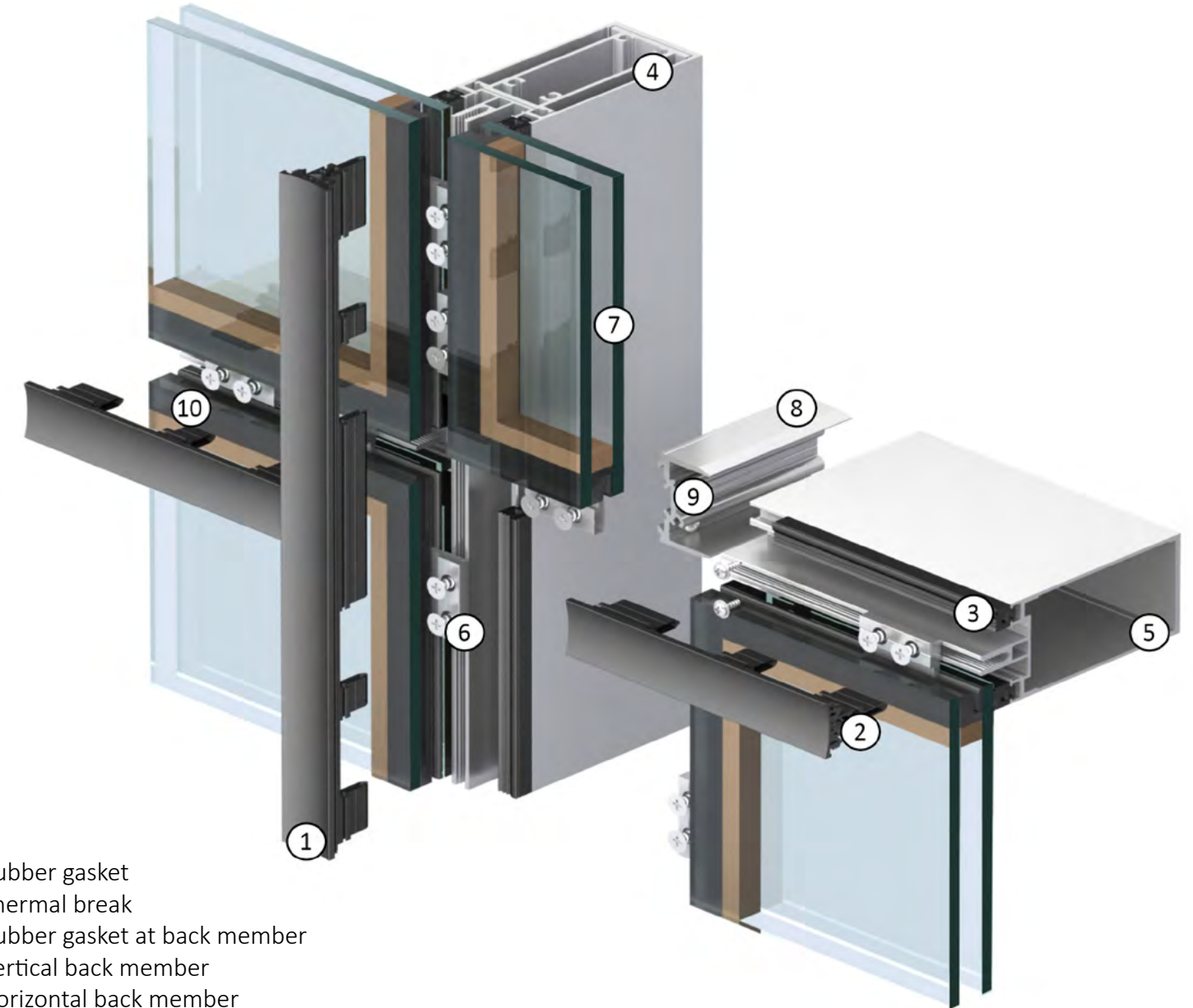
## PICTORIAL VIEW F50



1. Vertical cover cap
2. Horizontal cover cap
3. Pressure plate
4. Rubber gasket at pressure plate
5. Drain
6. Thermal break
7. Rubber gasket at back member
8. Vertical back member
9. Horizontal back member
10. Insulated glass unit
11. Sheer block
12. #8 Screw
13. #12 Screw
14. Reinforcement molding

\*3 7/8" system typical assembly is shown. Various options for sheer blocks, mullions depth, beauty covers shape and glazing are available. Please contact PGA for detailed information

## PICTORIAL VIEW F50 SG

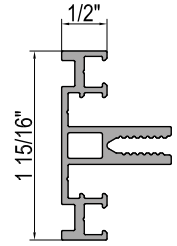
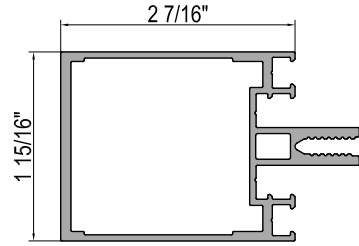
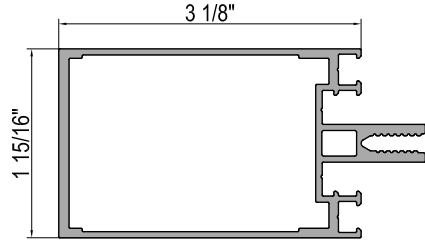
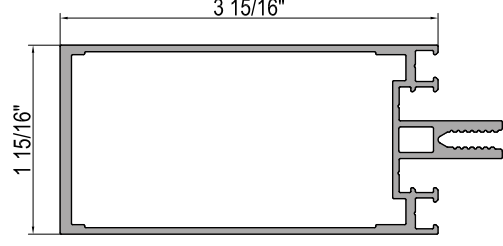
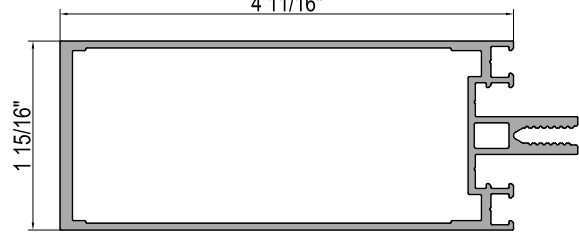


1. Rubber gasket
2. Thermal break
3. Rubber gasket at back member
4. Vertical back member
5. Horizontal back member
6. Glass bracket
7. Insulated glass unit
8. Sheer block
9. #8 Screw
10. #12 Screw
11. Reinforcement molding

\*3 7/8" structurally glazed system typical assembly is shown. Various options for sheer blocks, mullions depth, beauty covers shape and glazing are available. Please contact PGA for detailed information

## 22'-4" FULL LENGTH EXTRUSIONS VERTICAL MULLIONS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0101  1/2" Vertical mullion
	F50.0102  2 7/16" Vertical mullion
	F50.0103  3 1/8" Vertical mullion
	F50.0104  3 15/16" Vertical mullion
	F50.0105  4 11/16" Vertical mullion

Drawing	Catalog number/ Description
	F50.0106 5 1/2" Vertical mullion
	F50.0107 6 11/16" Vertical mullion
	F50.0108 7 7/8" Vertical mullion
	F50.0109 3 1/8" 90° mullion
	F50.0110 9 1/16" Vertical mullion

Drawing	Catalog number/ Description
	F50.0111 10 5/8" Vertical mullion
	F50.0113 3 1/8" Captured female mullion
	F50.0114 3 15/16" Captured female mullion
	F50.0115 4 11/16" Captured female mullion
	F50.0116 5 1/2" Captured female mullion

Drawing	Catalog number/ Description
	F50.0123 3 1/8" Captured male mullion
	F50.0124 3 15/16" Captured male mullion
	F50.0125 4 11/16" Captured male mullion
	F50.0126 5 1/2" Captured male mullion

## 22'-4" FULL LENGTH EXTRUSIONS HORIZONTAL MULLIONS

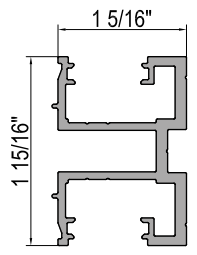
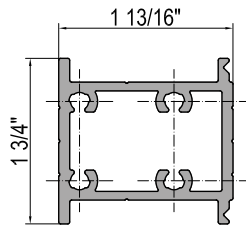
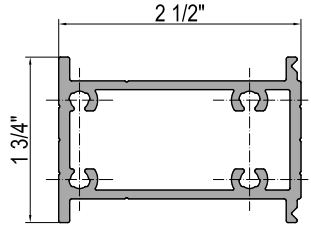
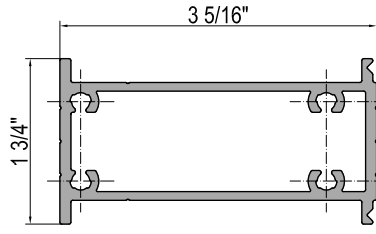
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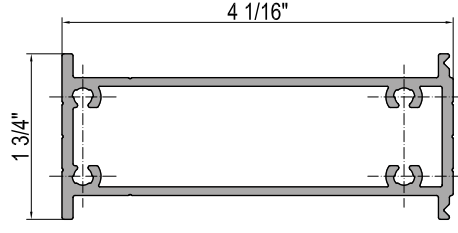
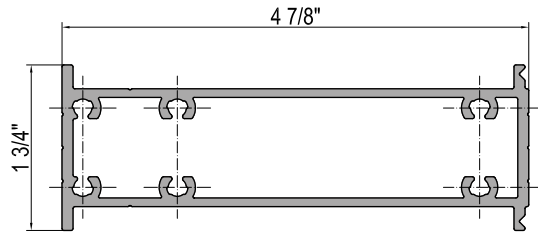
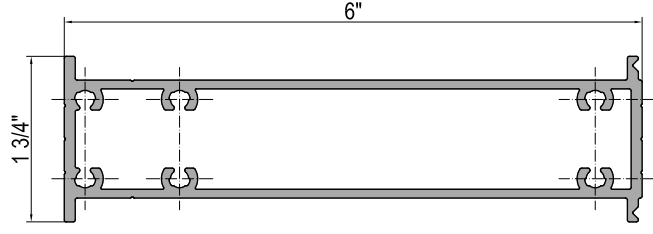
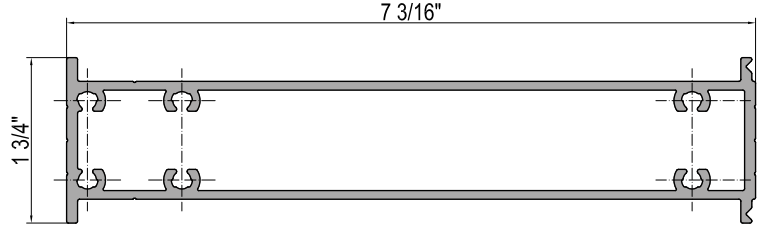
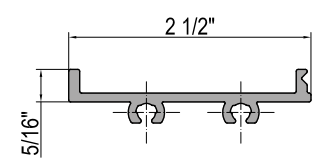
Drawing	Catalog number/ Description
	F50.0201 1/2" Horizontal mullion
	F50.0202 11/16" Horizontal mullion
	F50.0203 1" Horizontal mullion
	F50.0204 1 3/4" Horizontal mullion

Drawing	Catalog number/ Description	Drawing	Catalog number/ Description
	F50.0205  2 5/8" Horizontal mullion		F50.0210  6 7/8" Horizontal mullion
	F50.0206  3 5/16" Horizontal mullion		F50.0211  8 1/16" Horizontal mullion
	F50.0207  4 1/8" Horizontal mullion		F50.0212  1 3/4" Adjustable angle male horizontal mullion
	F50.0208  4 15/16" Horizontal mullion		F50.0213  1 3/4" Adjustable angle male horizontal mullion
	F50.0209  5 11/16" Horizontal mullion		F50.0214  2 1/8" Horizontal mullion for use with F50.0301 combined with F50.0101

## 22'-4" FULL LENGTH REINFORCEMENT MOLDINGS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0301  1 5/16" Exposed reinforcement molding for F50.0101
	F50.0302  1 13/16" Reinforcement molding for F50.0102
	F50.0303  2 1/2" Reinforcement molding for F50.0103, F50.0109
	F50.0304  3 5/16" Reinforcement molding for F50.0104

Drawing	Catalog number/ Description
	F50.0305  4 1/16" Reinforcement molding for F50.0105, F50.0110
	F50.0306  4 7/8" Reinforcement molding for F50.0106, F50.0111
	F50.0307  6" Reinforcement molding for F50.0107
	F50.0308  7 3/16" Reinforcement molding for F50.0108
	F50.0313  2 1/2" Reinforcement molding for F50.0113



Drawing	Catalog number/ Description
	F50.0314  3 5/16" Reinforcement molding for F50.0114
	F50.0315  4 1/16" Reinforcement molding for F50.0115
	F50.0316  4 7/8" Reinforcement molding for F50.0116

## SHEER BLOCKS 22'-4" FULL LENGTH EXTUSIONS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0401  Sheer block extrusion
	F50.0402  Sheer block extrusion
	F50.0403  Sheer block extrusion
	F50.0404  Sheer block extrusion
	F50.0405  Sheer block extrusion
	F50.0406  Sheer block extrusion

Drawing	Catalog number/ Description
	F50.0407
	Sheer block extrusion
	F50.0408
	Sheer block extrusion (Length 11'-2")
	F50.0409
	Sheer block extrusion (Length 11'-2")
	F50.0410
	Sheer block extrusion
	F50.0416
	Sheer block extrusion (Length 10'-9")
	F50.6005
	Sheer block extrusion (Length 11'-2")

## COVER CAPS AND PRESSURE PLATES 22'-4" FULL LENGTH EXTUSIONS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0501
	Cover cap insert
	F50.0502
	Cover cap
	F50.0503
	Cover cap
	F50.0504
	Cover cap
	F50.0505
	Cover cap

Drawing	Catalog number/ Description
	F50.0506
	Cover cap
	F50.0507
	Cover cap
	F50.0508
	Cover cap
	F50.0509
	Cover cap
	F50.0510
	22'-4" Cover cap

Drawing	Catalog number/ Description
	F50.0601
	Pressure plate
	F50.0602
	Pressure plate
	F50.0605
	Pressure plate
	F50.0606
	Pressure plate
	F50.0607
	Pressure plate
	F50.0608
	Pressure plate
	F50.0609
	Pressure plate
	F50.0610
	Pressure plate
	F50.0611
	Pressure plate

Drawing	Catalog number/ Description
	F50.0612 Pressure plate
	F50.0613 Pressure plate
	F50.0614 Pressure plate
	F50.0615 Pressure plate
	F50.0616 Pressure plate
	F50.0617 Pressure plate
	F50.0618 Pressure plate

Drawing	Catalog number/ Description
	F50.0619 Pressure plate
	F50.0620 Pressure plate
	F50.0621 Pressure plate

## AUXILIARY MOLDINGS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0701
	Auxiliary molding
	F50.0702
	Auxiliary molding
	F50.0705
	Auxiliary molding
	F50.0706
	Auxiliary molding
	F50.0707
	Auxiliary molding

Drawing	Catalog number/ Description
	F50.0708
	Auxiliary molding
	F50.0709
	F50.0710
	Auxiliary molding
	F50.0711
	Auxiliary molding
	F50.0712
	Auxiliary molding

Drawing	Catalog number/ Description
	F50.0713 Auxiliary molding
	F50.0714 Auxiliary molding
	F50.0721 Auxiliary molding
	F50.0722 Auxiliary molding
	F50.0723 Auxiliary molding
	F50.0724 Auxiliary molding

## GLASS SHIMS FULL LENGTH 22'-4" FULL LENGTH EXTRUSIONS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0801 Glass support shim extrusion
	F50.0802 Glass support shim extrusion
	F50.0803 Glass support shim extrusion
	F50.0804 Glass support shim extrusion
	F50.0805 Glass support shim extrusion
	F50.0806 Glass support shim extrusion
	F50.0807 Glass support shim extrusion
	F50.0808 Glass support shim extrusion

Drawing	Catalog number/ Description
	F50.0809 Glass support shim extrusion
	F50.0810 Glass support shim extrusion
	F50.0811 Glass support shim extrusion
	F50.0812 Glass support shim extrusion
	F50.0813 Glass support shim extrusion
	F50.0814 Glass support shim extrusion
	F50.0816 Glass support shim extrusion
	F50.0817 Glass support shim extrusion

## INTEGRATED WINDOWS 22'-4" FULL LENGTH EXTRUSIONS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.1201 Frame profile
	F50.1203 Frame profile
	F50.1204 Frame profile
	F50.1205 Frame profile
	F50.1206 Frame profile
	F50.1207 22' 4" Sash profile

Drawing	Catalog number/ Description
	F50.1301
	Sash profile
	F50.1303
	Sash profile
	F50.1304
	Sash profile
	F50.1305
	Sash profile
	F50.1306
	Sash profile
	F50.1307
Sash profile	
	F50.1308
	Sash profile

## STRUCTURALLY GLAZED SYSTEM COMPONENTS 22'-4" FULL LENGTH EXTRUSIONS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.1501
	Cover cap
	F50.1601
	Pressure plate
	F50.1602
	Pressure plate
	F50.1605
	Pressure plate
	F50.1606
	Pressure plate
	F50.1607
	Pressure plate
	F50.1608
	Pressure plate
	F50.1609
	Pressure plate



Drawing	Catalog number/ Description
	F50.1610 Pressure plate
	F50.1611 Pressure plate
	F50.1612 Pressure plate
	F50.1702 Auxiliary molding
	F50.1703 Auxiliary molding (for parallel hardware installation)
	F50.1801 Glass support shim extrusion
	F50.1802 Glass support shim extrusion
	F50.1803 Glass support shim extrusion

Drawing	Catalog number/ Description
	F50.1804 Glass support shim extrusion
	F50.1805 Glass support shim extrusion
	F50.1806 Glass support shim extrusion
	F50.1807 Glass support shim extrusion
	F50.1808 Glass support shim extrusion
	F50.1964 Glass support shim extrusion
	F50.1965 Glass support shim extrusion

Drawing	Catalog number/ Description
	F50.1966
	Glass support shim extrusion
	F50.1967
	Glass support shim extrusion
	F50.1968
	Glass support shim extrusion
	F50.1969
	Glass support shim extrusion
	F50.1970
	Glass support shim extrusion
	F50.1971
	Glass support shim extrusion

## PLASTIC COMPONENTS 19' STICK LENGTH

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0901
	Side plastic insert
	F50.0902
	Side plastic insert
	F50.0903
	Side plastic insert
	F50.1901
	Frame profile
	F50.1902
	Extension molding
	F50.1903
	Extension molding
	F50.1904
	Splice molding

Drawing	Catalog number/ Description
	F50.1913 Frame profile
	F50.1914 Frame profile
	F50.1915 Frame profile

## PLASTIC COMPONENTS

NOT TRUE SIZE

Drawing	Catalog number/ Description
	F50.0921-02 Horizontal mullion end cap
	F50.0921-02 Horizontal mullion end cap
	F50.0921 Horizontal mullion end cap
	F50.0921 Horizontal mullion end cap
	F50.0922 Horizontal mullion end cap set
	F50.0922 Horizontal mullion end cap set
	F50.0923 Drain sleeve
	F50.0924 Drain sleeve end cap

Drawing	Catalog number/ Description
	F50.0925 Vertical mullion end cap
	F50.0925 Vertical mullion end cap
	F50.0926 Vertical mullion end cap
	F50.0926 Vertical mullion end cap
	F50.0927 Vertical mullion end cap
	F50.0927 Vertical mullion end cap
	F50.0921-01 Horizontal mullion end cap
	F50.0921-01 Horizontal mullion end cap
	F50.0925-01 Vertical mullion connection cap
	F50.0925-01 Vertical mullion connection cap
	F50.0928 Drain sleeve

## SHIMS

NOT TRUE SIZE

Drawing	Catalog number/ Description
	100x26x1 Plastic shim
	100x26x2 Plastic shim
	100x26x3 Plastic shim
	100x32x1 Plastic shim
	100x32x2 Plastic shim
	100x32x3 Plastic shim
	100x38x1 Plastic shim
	100x38x2 Plastic shim
	100x38x3 Plastic shim

## RUBBER GASKETS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	FRK07
	Gasket 1312'
	FRK13
	Gasket 984'
	FRK14
	Gasket 984'
	FRK15
	Gasket 656'
	FRK16
	Gasket 574'
	FRK17
	Gasket 492'
	FRK18
	Gasket 410'
	FRK19
	Gasket 328'
	FRK20
	Gasket 574'

Drawing	Catalog number/ Description
	FRK21
	Gasket 410'
	FRK22
	Gasket 328'
	FRK24
	Gasket 738'
	FRK25
	Gasket 246'
	FRK28
	Gasket 492'
	FRK29-01
	Gasket 1312'
	FRK32
	Gasket 328'
	FRK36
	Gasket 820'
	FRK37
	Gasket 984'

Drawing	Catalog number/ Description
	FRK41 Rubber angle
	FRK43 Gasket 574'
	FRK44 Gasket 410'
	FRK45 Gasket 2952'
	FRK46 Gasket 2296'
	FRK47 Gasket 328'
	FRK48 Gasket 328'
	FRK49 Gasket 410'
	FRK50 Gasket 984'
	FRK56 Gasket 32'

Drawing	Catalog number/ Description
	FRK62 Rubber cap with vent holes 6"
	FRK67 Gasket 656'
	FRK68 Gasket 1476'
	FRK69 Gasket 656'
	FRK105 Gasket 738'
	FRK42 Gasket 2 1/2"
	FRK126 Gasket 1640'

## THERMAL BREAKS 6'-6"

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.0908 Thermal break
	F50.0909 Thermal break
	F50.0910 Thermal break
	F50.0911 Thermal break
	F50.0912 Thermal break
	F50.0913 Thermal break
	F50.0914 Thermal break

## FOAM FILLERS

NOT TRUE SIZE  
SCALE 1 : 2

Drawing	Catalog number/ Description
	F50.1921 Gasket 1312'
	F50.1922 Gasket 738'
	F50.1923 Gasket 492'

## ALUMINUM SHIMS L=4"

Drawing	Catalog number/ Description
	F50.0940 Glass shim
	F50.0940-01 Glass shim
	F50.0941 Glass shim
	F50.0941-01 Glass shim
	F50.0941-02 Glass shim
	F50.0952-01 Glass shim
	F50.0948 Glass shim
	F50.0948-01 Glass shim
	F50.0948-02 Glass shim

Drawing	Catalog number/ Description
	F50.0949 Glass shim
	F50.0949-01 Glass shim
	F50.0949-02 Glass shim
	F50.1940 Glass shim
	F50.1940-01 Glass shim



Drawing	Catalog number/ Description
	F50.1940-02 Glass shim
	F50.1941 Glass shim
	F50.1941-01 Glass shim
	F50.1941-02 Glass shim

Drawing	Catalog number/ Description
	F50.1945 Shim
	F50.1946 Fixator
	F50.1948 Fixator

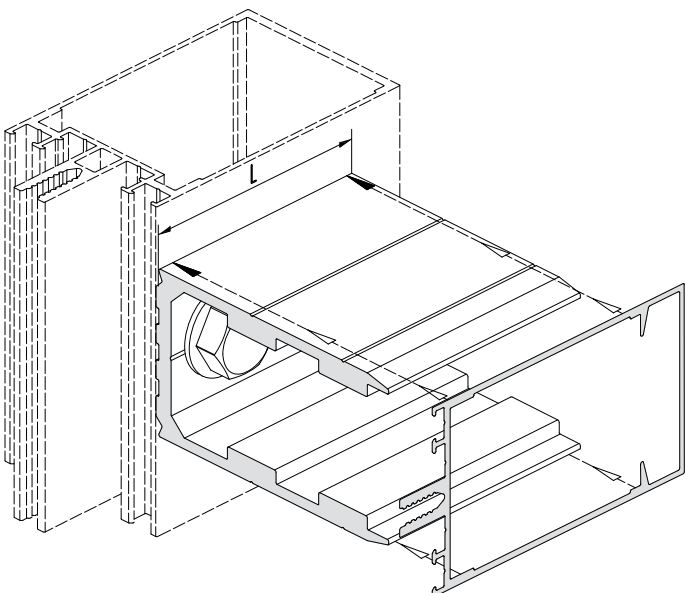
## SHEER BLOCKS

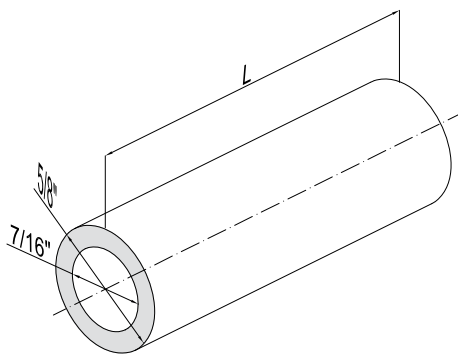
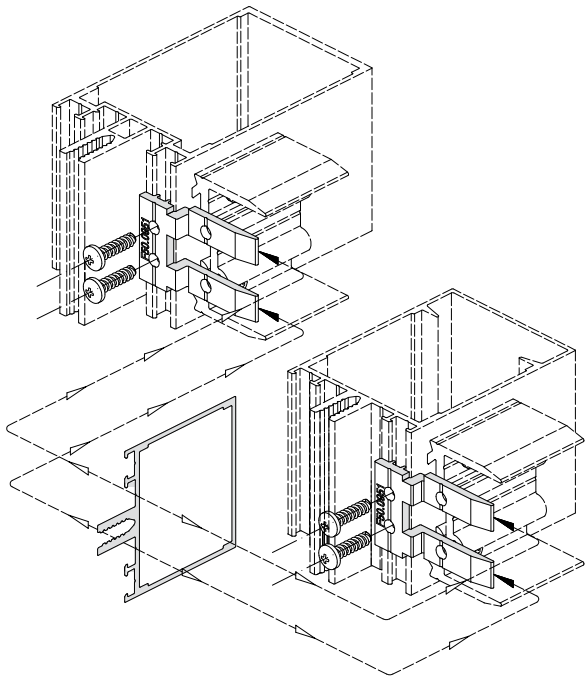
Drawing	Catalog number/ Description
	F50.0942
	Sheer block for F50.0204 L= 1 7/16"
	F50.0942-01
	Sheer block for F50.0205, F50.0214, F50.0102, L= 1 3/4"
	F50.0942-02
	Sheer block for F50.0206, F50.0103, L= 2 1/2"
	F50.0942-03
	Sheer block for F50.0207, F50.0104, L= 3 1/4"
	F50.0942-04
	Sheer block for F50.0208, F50.0105, L= 4"
	F50.0942-05
	Sheer block for F50.0209, F50.0106, L= 4 13/16"
	F50.0942-06
	Sheer block for F50.0210, F50.0107, L= 6"
F50.0942-07	
Sheer block for F50.0211, F50.0108, L= 7 1/8"	

Drawing	Catalog number/ Description
	F50.0943
	Sheer block for F50.0203, L= 5/8"
	F50.0943-01
	Sheer block for F50.0204, L= 1 7/16"
	F50.0943-02
	Sheer block for F50.0205, F50.0214, F50.0102, L= 1 3/4"
	F50.0943-03
	Sheer block for F50.0206, F50.0103, L= 2 1/2"
	F50.0943-04
	Sheer block for F50.0207, F50.0104, L= 3 1/4"
	F50.0943-05
	Sheer block for F50.0208, F50.0105, L= 4"
	F50.0943-06
	Sheer block for F50.0209, F50.0106, L= 4 13/16"
F50.0943-07	
Sheer block for F50.0210, F50.0107, L= 6"	
F50.0943-08	
Sheer block for F50.0211, F50.0108, L= 7 1/8"	

Drawing	Catalog number/ Description
	F50.0944
	Sheer block for F50.0203, L= 5/8"
	F50.0944-01
	Sheer block for F50.0204, L= 1 7/16"
	F50.0944-02
	Sheer block for F50.0205, F50.0214, F50.0102, L= 1 3/4"
	F50.0944-03
	Sheer block for F50.0206, F50.0103, L= 2 1/2"
	F50.0944-04
	Sheer block for F50.0207, F50.0104, L= 3 1/4"
	F50.0944-05
	Sheer block for F50.0208, F50.0105, L= 4"
	F50.0944-06
	Sheer block for F50.0209, F50.0106, L= 4 13/16"
F50.0944-07	
Sheer block for F50.0210, F50.0107, L= 6"	
F50.0944-08	
Sheer block for F50.0211, F50.0108, L= 7 1/8"	

Drawing	Catalog number/ Description
	F50.0945
	Sheer block for F50.0203, L= 5/8"
	F50.0945-01
	Sheer block for F50.0204, L= 1 7/16"
	F50.0945-02
	Sheer block for F50.0205, F50.0214, F50.0102, L= 1 3/4"
	F50.0945-03
	Sheer block for F50.0206, F50.0103, L= 2 1/2"
	F50.0945-04
	Sheer block for F50.0207, F50.0104, L= 3 1/4"
	F50.0945-05
	Sheer block for F50.0208, F50.0105, L= 4"
	F50.0945-06
	Sheer block for F50.0209, F50.0106, L= 4 13/16"
F50.0945-07	
Sheer block for F50.0210, F50.0107, L= 6"	
F50.0945-08	
Sheer block for F50.0211, F50.0108, L= 7 1/8"	

Drawing	Catalog number/ Description
	F50.0947
	Sheer block for F50.0206, F50.0103, L= 2 1/2"
	F50.0947-01
	Sheer block for F50.0207, F50.0104, L= 3 1/4"
	F50.0947-02
	Sheer block for F50.0208, F50.0105, L= 4"
	F50.0947-03
	Sheer block for F50.0209, F50.0106, L= 4 13/16"
	F50.0947-04
	Sheer block for F50.0210, F50.0107, L= 6"
F50.0947-05	
Sheer block for F50.0211, F50.0108, L= 7 1/8"	

Drawing	Catalog number/ Description
	F50.0950
	Sheer block, L= 1 15/16"
	F50.0950-01
	Sheer block, L= 2"
	F50.1951
Sheer block for F50.0201, F50.0202, F50.0203, F50.0204, F50.0205, F50.0206, F50.0207, F50.0208, F50.0209, F50.0210, F50.0211, F50.0214	

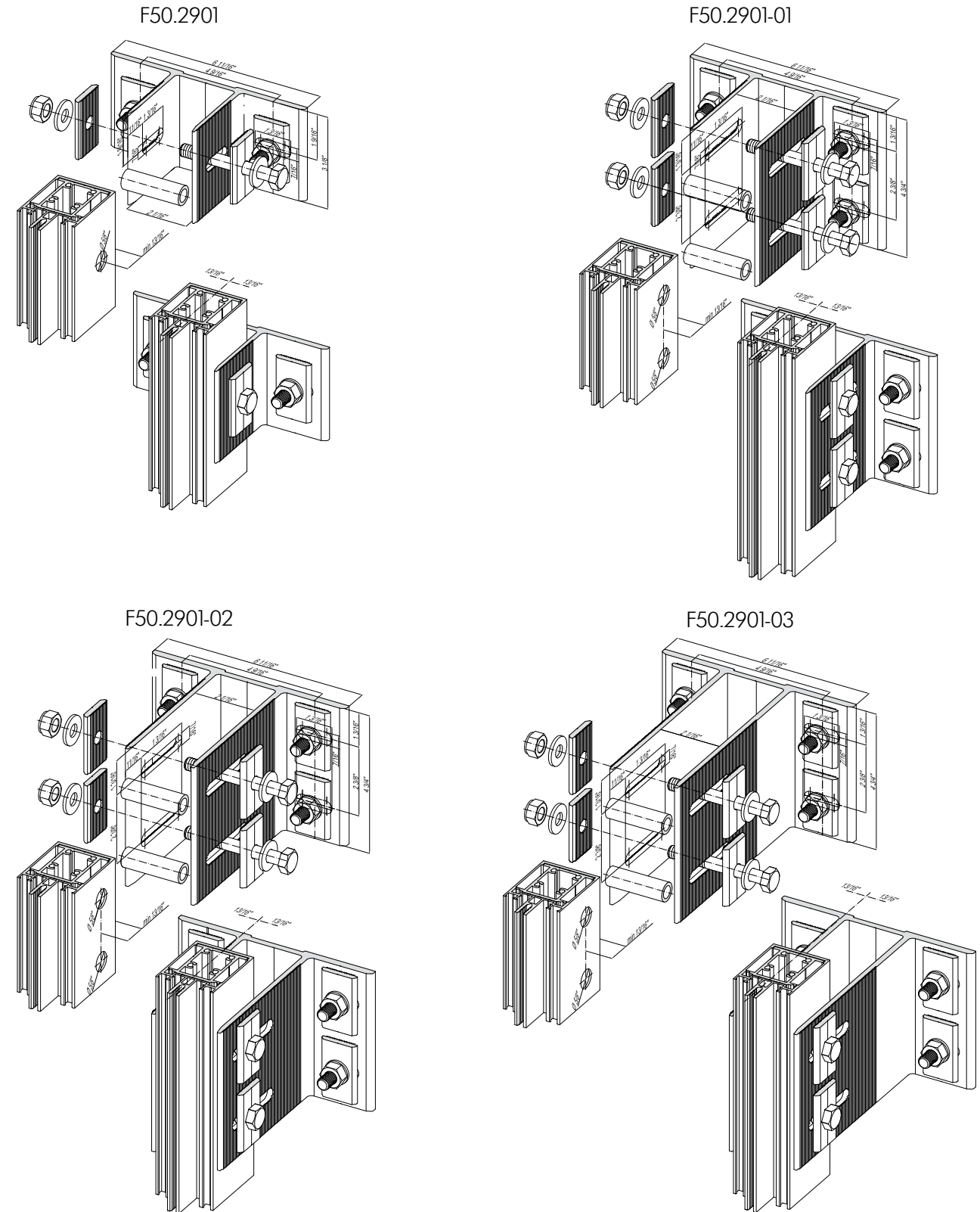
## INTEGRATED WINDOWS CORNER KEYS

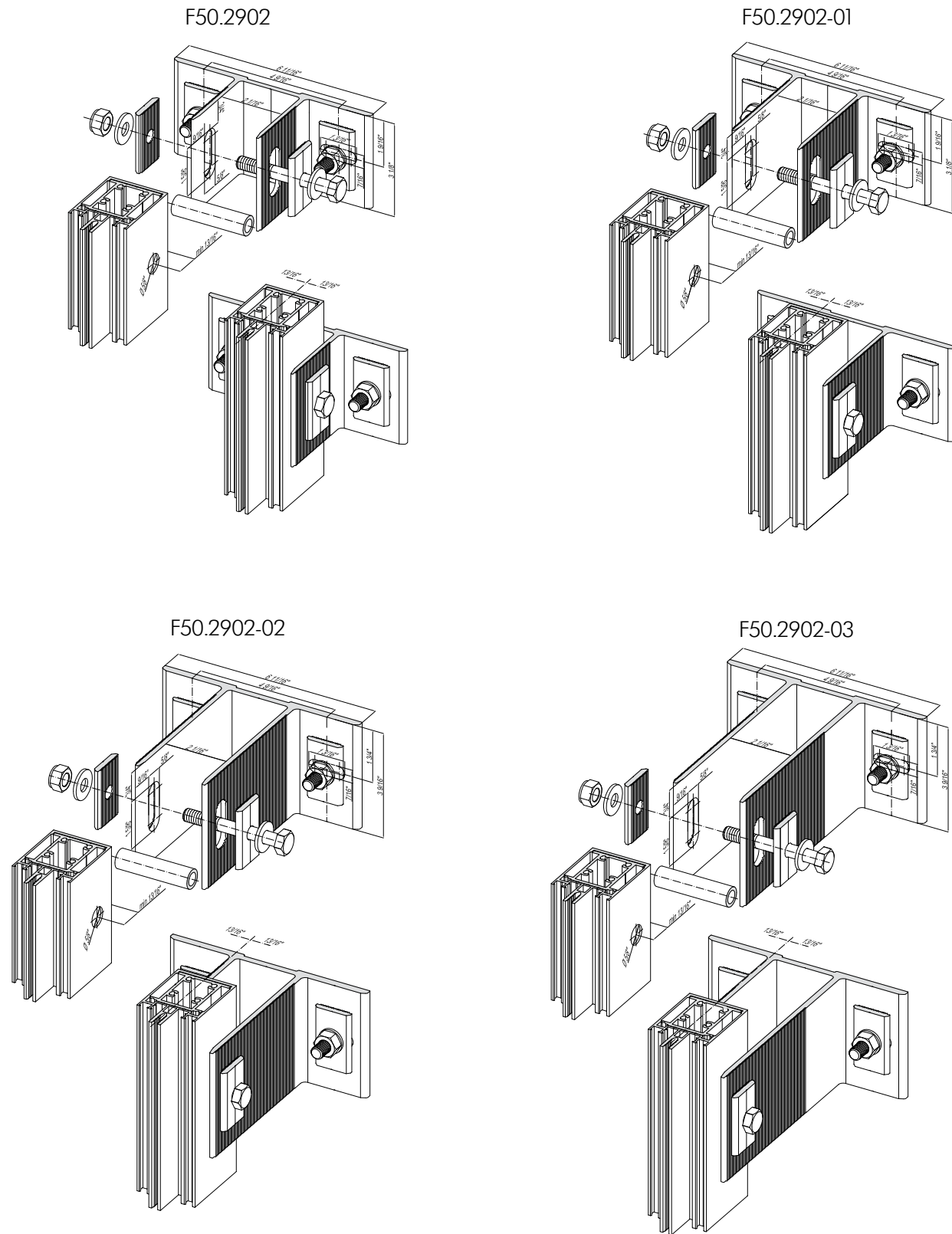
Drawing	Catalog number/ Description
	F50.1950
	Corner insert for F50.1301, F50.1304
	F50.1950-01
	Corner insert for F50.1303, F50.1305, F50.1901

Drawing	Catalog number/ Description
	F50.1950-02
	Corner insert for F50.1201, F50.1301, F50.1303, F50.1306
	F50.1950-03
	Corner insert for F50.1203, F50.1207, F50.1307, F50.1308
	F50.1950-04
	Corner insert for F50.1206, F50.1304, F50.1305

Drawing	Catalog number/ Description
	<p>F50.1951</p> <p>Corner insert for F50.1204</p>

## WALL MOUNTED BRACKETS

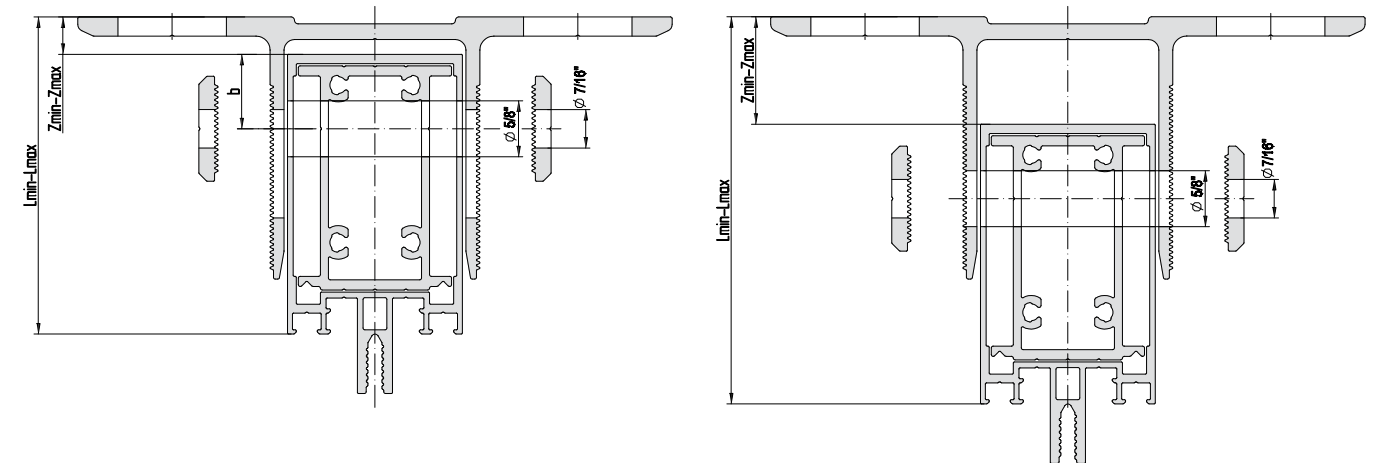




Drawing	Catalog number/ Description
	F50.2901  Bracket
	F50.2901-01  Bracket
	F50.2901-02  Bracket

Drawing	Catalog number/ Description
	F50.2901-03 Bracket
	F50.2902 Bracket
	F50.2902-01 Bracket
	F50.2902-02 Bracket

Drawing	Catalog number/ Description
	F50.2902-03 Bracket
	F50.2905 Washer



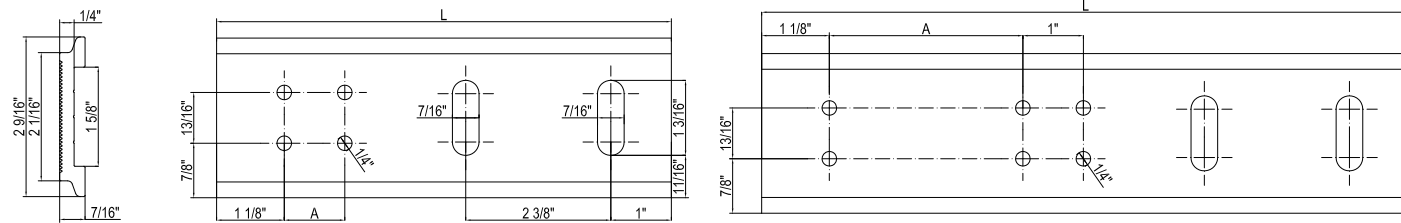


Mullion	Mullion depth	b	Wall Bracket	L		Z Offset		Adjustment	Intermediate wall bracket
				min	max	min	max		
F50.0102	2 7/16"	13/16"	F50.2901	2 15/16"	3 9/16"	1/2"	1 1/8"	9/16"	F50.2902
			F50.2901-01	3 15/16"	4 1/2"	1 1/2"	2 1/16"	9/16"	F50.2902-01
			F50.2901-02	5 1/2"	6 1/16"	3 1/16"	3 5/8"	9/16"	F50.2902-02
			F50.2901-03	7 1/16"	7 11/16"	4 5/8"	5 1/4"	9/16"	F50.2902-03
F50.0103	3 1/8"	13/16"	F50.2901	3 9/16"	4 5/16"	3/8"	1 3/16"	13/16"	F50.2902
			F50.2901-01	3 15/16"	5 5/16"	13/16"	2 3/16"	1 3/8"	F50.2902-01
			F50.2901-02	5 1/2"	6 7/8"	2 3/8"	3 3/4"	1 3/8"	F50.2902-02
			F50.2901-03	7 1/16"	8 7/16"	3 15/16"	5 5/16"	1 3/8"	F50.2902-03
F50.0104	3 5/16"	7/8"	F50.2901	4 5/16"	5 1/8"	3/8"	1 3/16"	13/16"	F50.2902
			F50.2901-01	4 5/16"	6 1/16"	3/8"	2 3/16"	1 3/4"	F50.2902-01
			F50.2901-02	5 11/16"	7 11/16"	1 3/4"	3 3/4"	1 15/16"	F50.2902-02
			F50.2901-03	5 5/16"	7 1/4"	1 3/8"	3 5/16"	1 15/16"	F50.2902-03
	1 1/16"	F50.2901	4 5/16"	4 15/16"	3/8"	1"	9/16"	F50.2902	
		F50.2901-01	4 5/16"	5 7/8"	3/8"	1 15/16"	1 9/16"	F50.2902-01	
		F50.2901-02	5 1/2"	7 7/16"	1 9/16"	3 9/16"	1 15/16"	F50.2902-02	
		F50.2901-03	7 1/16"	9 1/16"	3 1/8"	5 1/8"	1 15/16"	F50.2902-03	
F50.0105	4 11/16"	1 7/8"	F50.2901-01	5 1/8"	5 7/8"	3/8"	1 3/16"	13/16"	F50.2902-01
			F50.2901-02	5 1/2"	7 7/16"	13/16"	2 3/4"	1 15/16"	F50.2902-02
			F50.2901-03	7 1/16"	9 1/16"	2 3/8"	4 5/16"	1 15/16"	F50.2902-03
F50.0106	5 1/2"	2 1/4"	F50.2901-01	5 7/8"	6 5/16"	3/8"	13/16"	3/8"	F50.2902-01
			F50.2901-02	5 7/8"	7 7/8"	3/8"	2 3/8"	1 15/16"	F50.2902-02
			F50.2901-03	7 7/16"	9 7/16"	1 15/16"	3 15/16"	1 15/16"	F50.2902-03
	2 5/8"	F50.2901-02	5 7/8"	7 7/16"	3/8"	1 15/16"	1 9/16"	F50.2902-02	
		F50.2901-03	7 1/16"	9 1/16"	1 9/16"	3 9/16"	1 15/16"	F50.2902-03	
		F50.2901-03	7 1/16"	9 1/16"	3/8"	2 3/8"	1 15/16"	F50.2902-03	
F50.0107	6 11/16"	2 1/4"	F50.2901-01	7 1/16"	7 7/16"	3/8"	13/16"	3/8"	F50.2902-01
			F50.2901-02	7 1/16"	9 1/16"	3/8"	2 3/8"	1 15/16"	F50.2902-02
			F50.2901-03	8 5/8"	10 5/8"	1 15/16"	3 15/16"	1 15/16"	F50.2902-03
	2 5/8"	F50.2901-02	7 1/16"	7 7/16"	3/8"	13/16"	3/8"	F50.2902-02	
		F50.2901-03	7 1/16"	9 1/16"	3/8"	2 3/8"	1 15/16"	F50.2902-03	
F50.0108	7 7/8"	2 1/4"	F50.2901-01	8 1/4"	8 5/8"	3/8"	13/16"	3/8"	F50.2902-01
			F50.2901-02	8 1/4"	10 3/16"	3/8"	2 3/8"	1 15/16"	F50.2902-02
			F50.2901-03	9 13/16"	11 13/16"	1 15/16"	3 15/16"	1 15/16"	F50.2902-03
	2 5/8"	F50.2901-02	8 1/4"	8 5/8"	2 3/4"	3 1/8"	3/8"	F50.2902-02	
		F50.2901-03	8 1/4"	10 3/16"	2 3/4"	4 11/16"	1 15/16"	F50.2902-03	

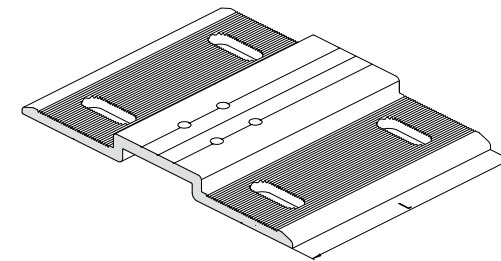
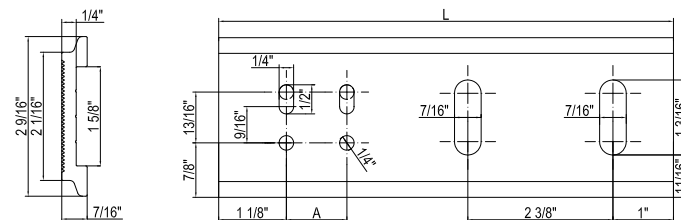
## FLOOR MOUNTED BRACKETS

Drawing	Catalog number/Description
	F50.2903
	Bracket
	F50.2903-01
	Bracket
	F50.2903-02
	Bracket
	F50.2903-03
	Bracket
	F50.2903-04
	Bracket
	F50.2903-05
	Bracket
	F50.2903-06
	Bracket

Floor mounted Bracket	Length	Mullion	Insert molding	A
F50.2903	7 3/8"	F50.0102	F50.0302	1"
F50.2903-01	8 3/16"	F50.0103	F50.0303	1 3/4"
F50.2903-02	8 15/16"	F50.0104	F50.0304	2 9/16"
F50.2903-03	9 3/4"	F50.0105	F50.0305	3 5/16"
F50.2903-04	10 9/16"	F50.0106	F50.0306	3 1/8"
F50.2903-05	11 11/16"	F50.0107	F50.0307	4 5/16"
F50.2903-06	12 11/16"	F50.0108	F50.0308	5 5/16"

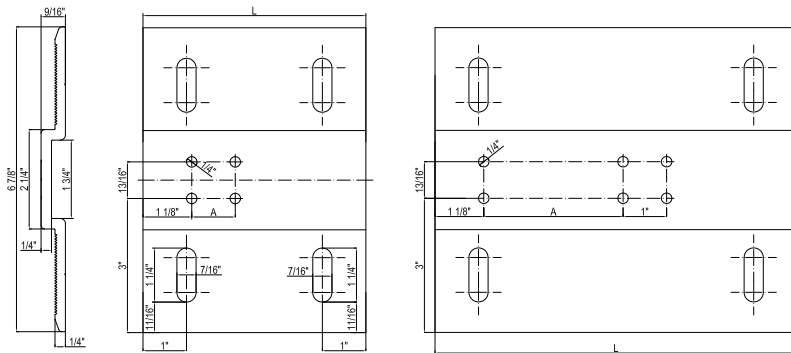


Floor mounted Bracket	Length L	Mullion	Insert molding	A
F50.2903	7 3/8"	F50.0113	F50.0313	1"
		F50.0123		
F50.2903-01	8 3/16"	F50.0114	F50.0314	1 3/4"
		F50.0124		
F50.2903-02	8 15/16"	F50.0115	F50.0315	2 9/16"
		F50.0125		
F50.2903-03	9 3/4"	F50.0116	F50.0316	3 5/16"
		F50.0126		

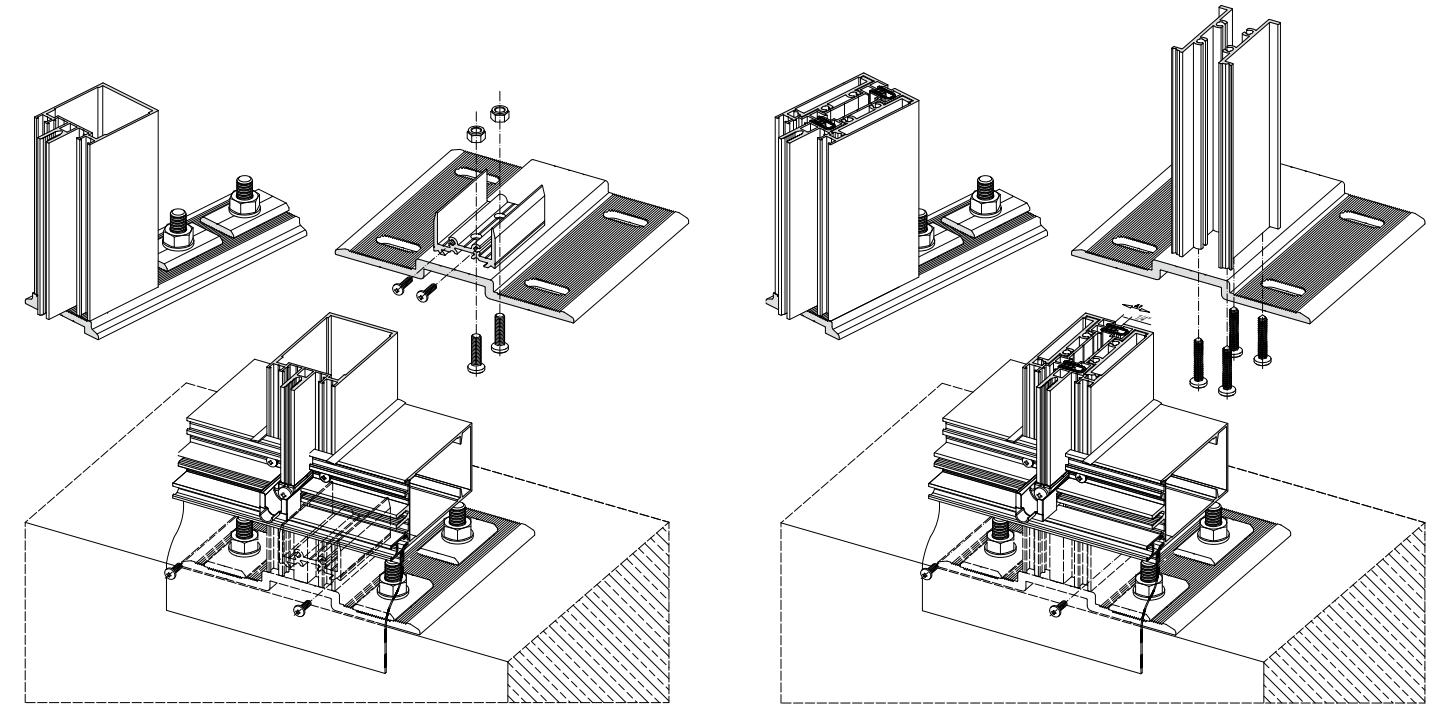
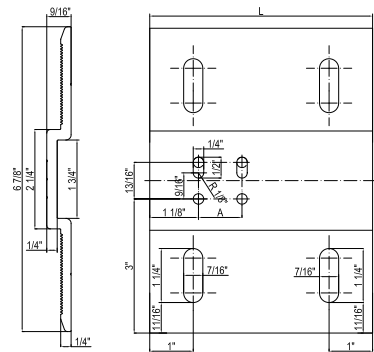


Drawing	Catalog number/Description
	F50.2904
	Bracket
	F50.2904-01
	Bracket
	F50.2904-02
	Bracket
F50.2904-03	
Bracket	
F50.2904-04	
Bracket	
F50.2904-05	
Bracket	
F50.2904-06	
Bracket	

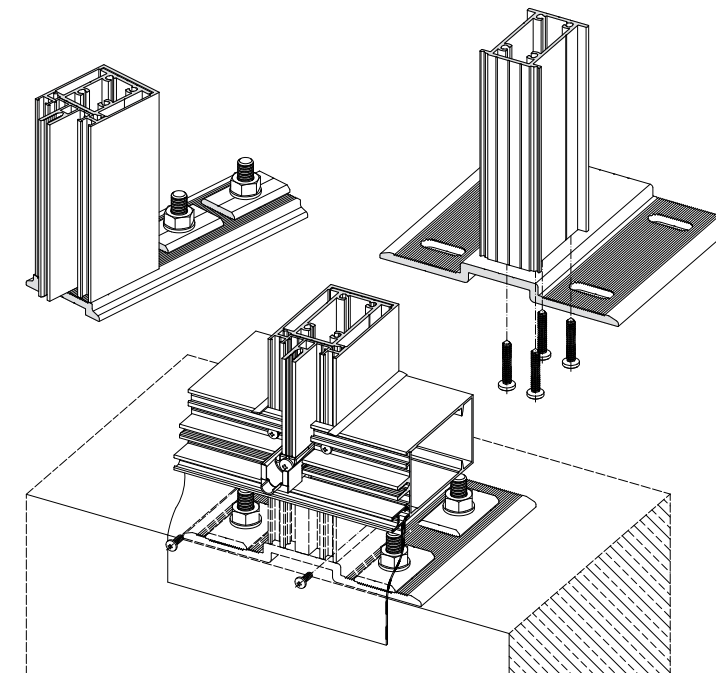
Floor mounted Bracket	Length L	Mullion	Insert molding	A
F50.2904	5"	F50.0102	F50.0302	1"
F50.2904-01	5 13/16"	F50.0103	F50.0303	1 3/4"
F50.2904-02	6 5/8"	F50.0104	F50.0304	2 9/16"
F50.2904-03	7 3/8"	F50.0105	F50.0305	3 5/16"
F50.2904-04	8 3/16"	F50.0106	F50.0306	3 1/8"
F50.2904-05	9 3/8"	F50.0107	F50.0307	4 5/16"
F50.2904-06	10 5/16"	F50.0108	F50.0308	5 5/16"



Floor mounted Bracket	Length L	Mullion	Insert molding	A
F50.2904	5"	F50.0113	F50.0313	1"
		F50.0123		
F50.2904-01	5 13/16"	F50.0114	F50.0314	1 3/4"
		F50.0124		
F50.2904-02	6 5/8"	F50.0115	F50.0315	2 9/16"
		F50.0125		
F50.2904-03	7 3/8"	F50.0116	F50.0316	3 5/16"
		F50.0126		



Note: For inserts made of reinforcement molding use at least 8" long insert

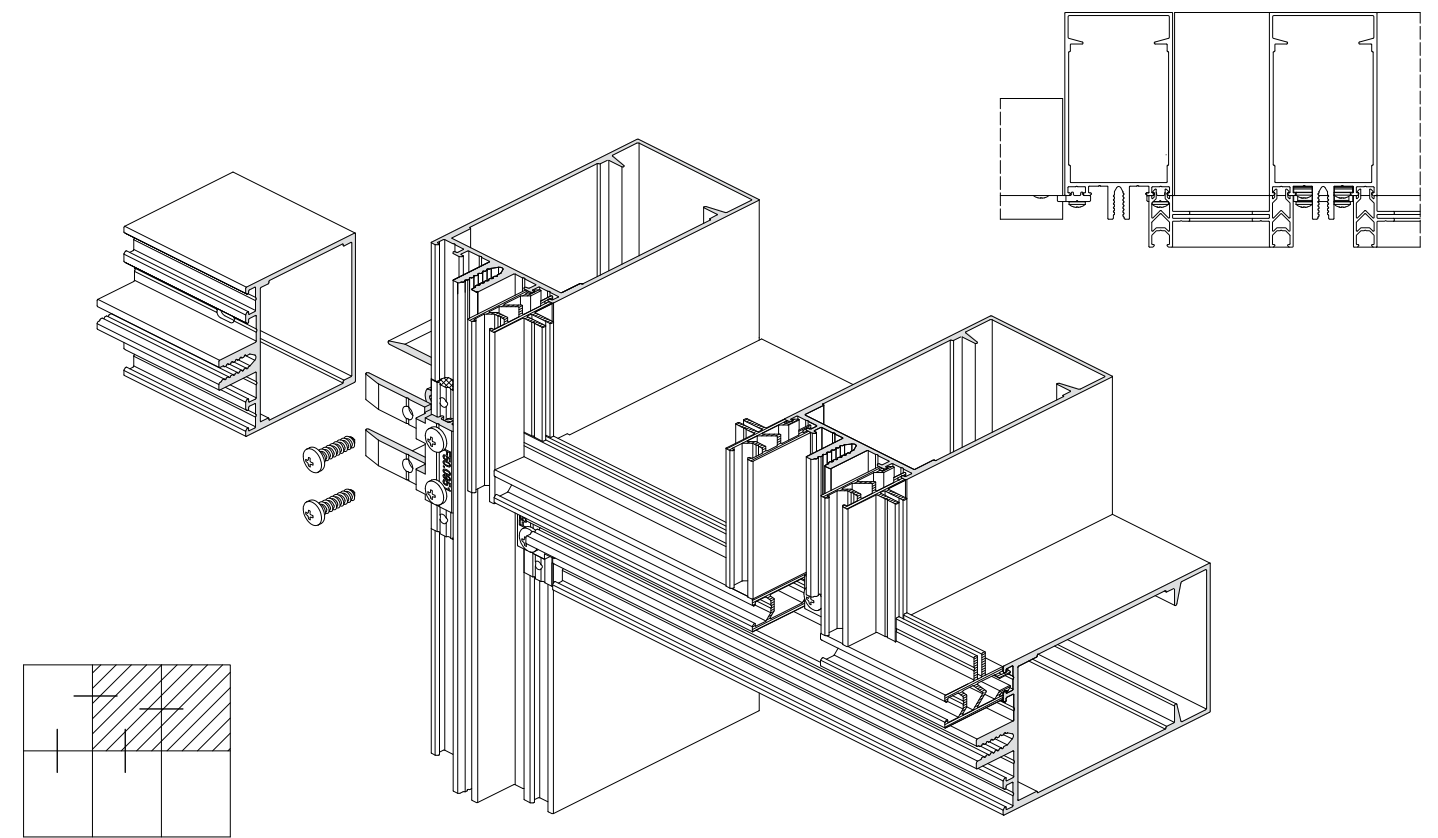
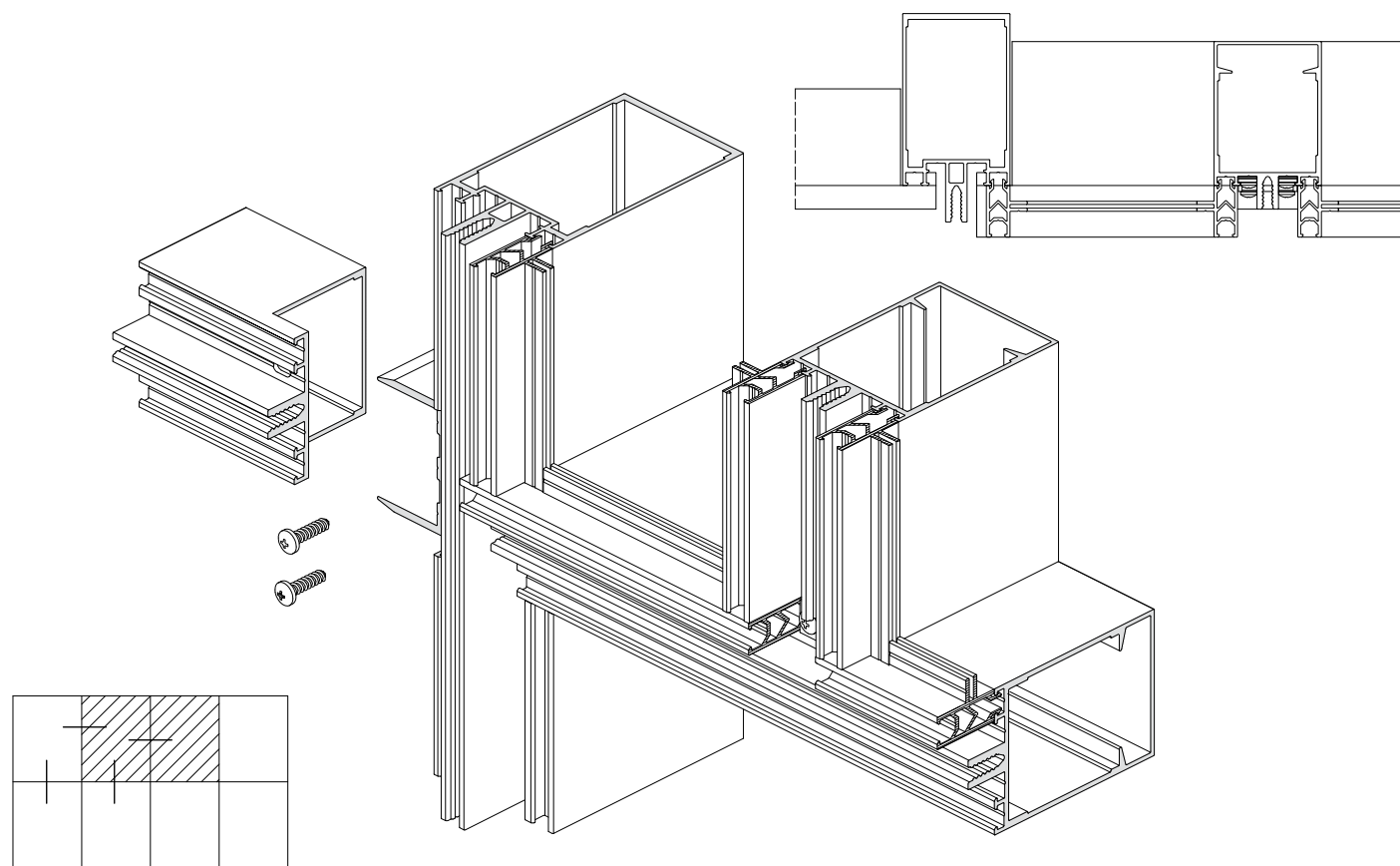


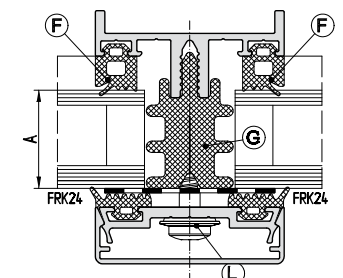
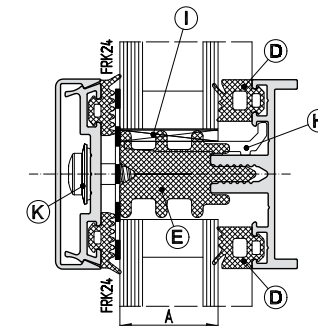
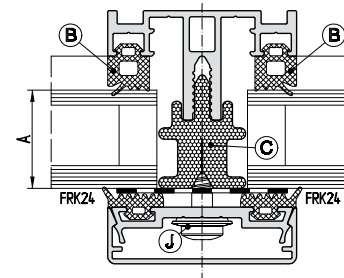
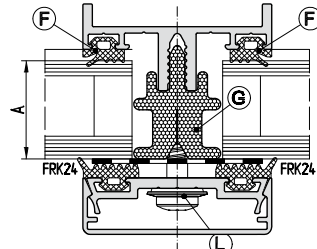
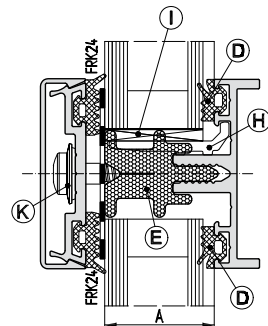
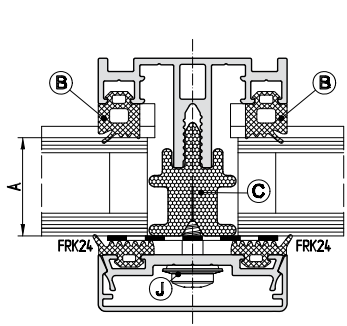
## GLAZING OPTIONS



Infill		Side plastic insert	Side plastic insert	Side plastic insert	Gasket	Glass support	Level shim	Screw
A	B	C	D	E	F	G	H	I
1"	3/16"	F50.0902	F50.0902	F50.0902	FRK16	F50.0941-01	FRK13	1 1/4" #10
2"	3/16"	F50.0902	F50.0902	F50.0902	FRK16	F50.0952-01	FRK13	2" #10

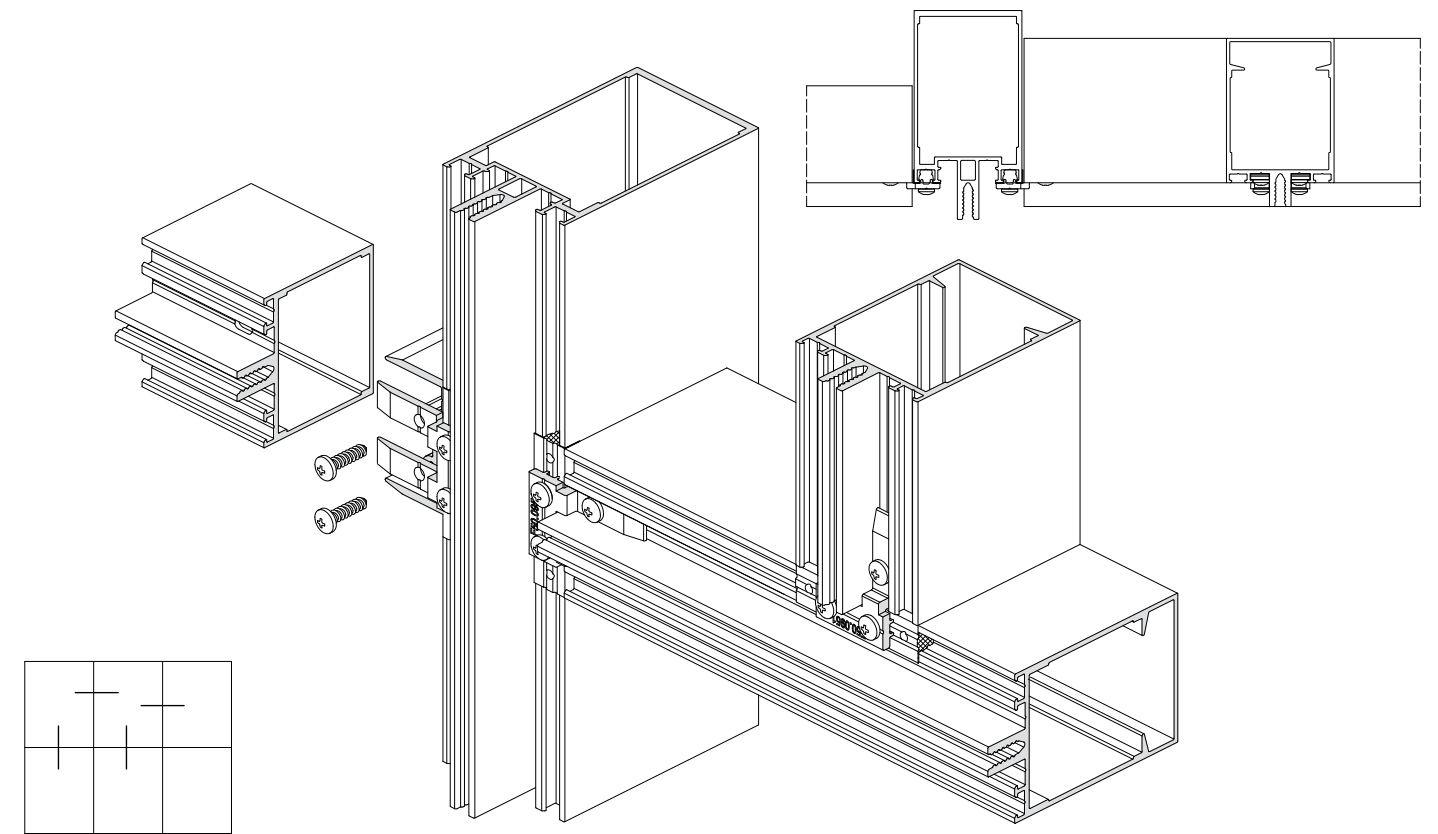
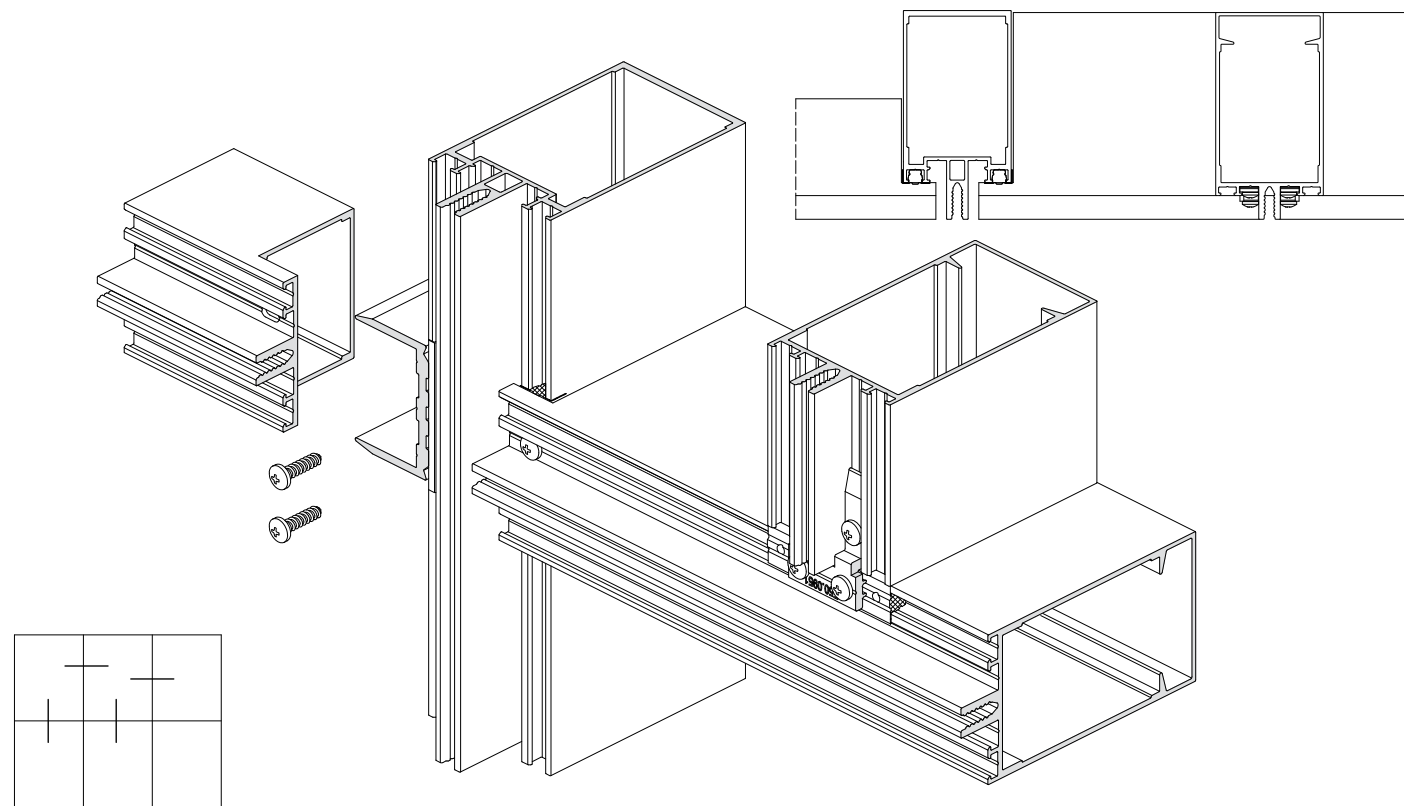
Infill		Side plastic insert	Side plastic insert	Side plastic insert	Gasket	Glass support	Level shim	Screw
A	B	C	D	E	F	G	H	I
1"	3/16"	F50.0902	F50.0902	F50.0902	FRK16	F50.0941-01	FRK13	1 1/4" #10
2"	3/16"	F50.0902	F50.0902	F50.0902	FRK16	F50.0952-01	FRK13	2" #10





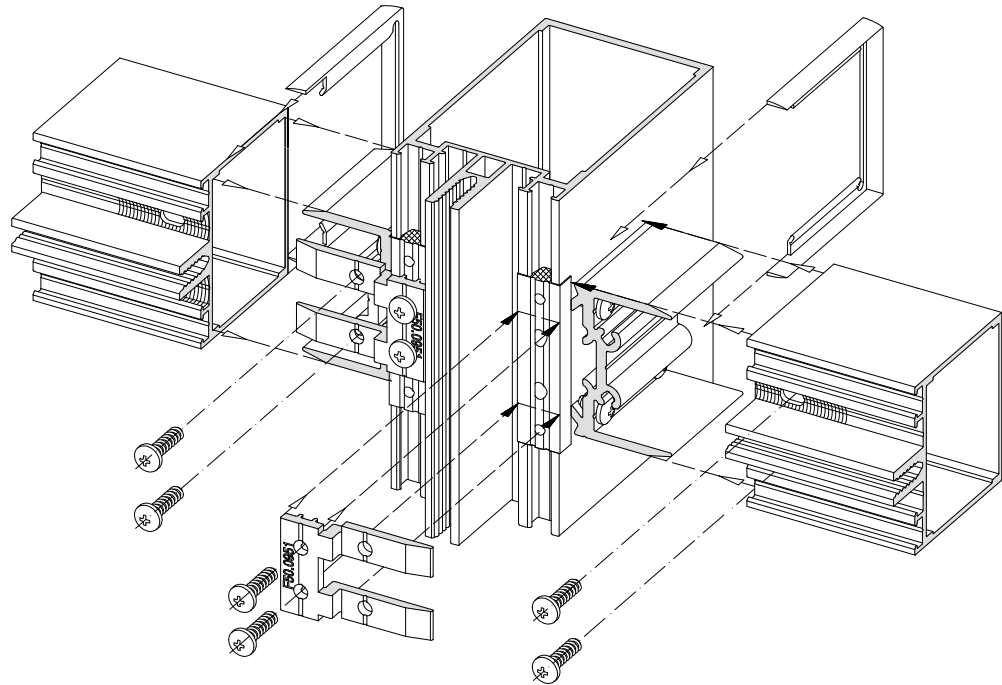
Infill	Gasket	Thermal break	Gasket	Thermal break	Gasket	Thermal break	Glass support	Level shim	Screw
A	B	C	D	E	F	G	H	I	J/K/L
3/16"	FRK19	-	FRK16	-	FRK16	-	F50.0940	FRK13	1" / 3/4" / 3/4" #12
1"	FRK17	F50.0908	FRK14	F50.0908	FRK14	F50.0908	F50.0941	100X26	1 3/4" / 1 1/2" / 1 1/2" #12
2"	FRK17	F50.0912	FRK14	F50.0912	FRK14	F50.0912	F50.0948-02 F50.0949-02	100X50	2 3/4" / 2 1/2" / 2 1/2" #12

Infill	Gasket	Thermal break	Gasket	Thermal break	Gasket	Thermal break	Glass support	Level shim	Screw
A	B	C	D	E	F	G	H	I	J/K/L
3/16"	FRK19	-	FRK19	-	FRK19	-	F50.0940-01	FRK13	3/4" #12
1"	FRK17	F50.0908	FRK17	F50.0909	FRK17	F50.0909	F50.0941-01	100X26	1 3/4" #12
2"	FRK14	F50.0911	FRK14	F50.0912	FRK14	F50.0912	F50.0948-02 F50.0949-02	100X50	2 1/2" #12

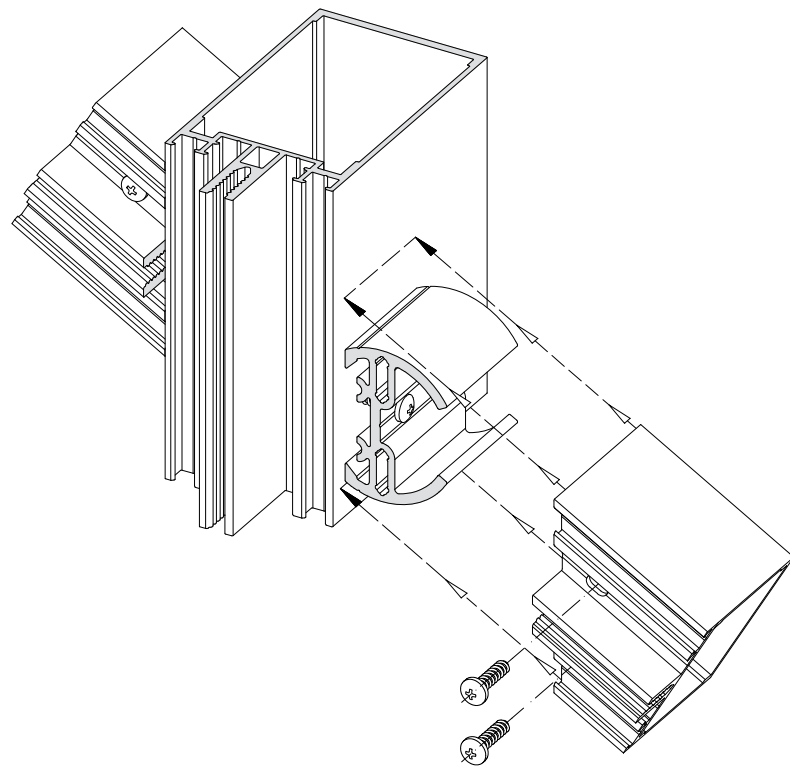


## TYPICAL ASSEMBLY INSTRUCTIONS

DUAL BLOCK FLAT CONNECTION MAX LOAD 520 LBS

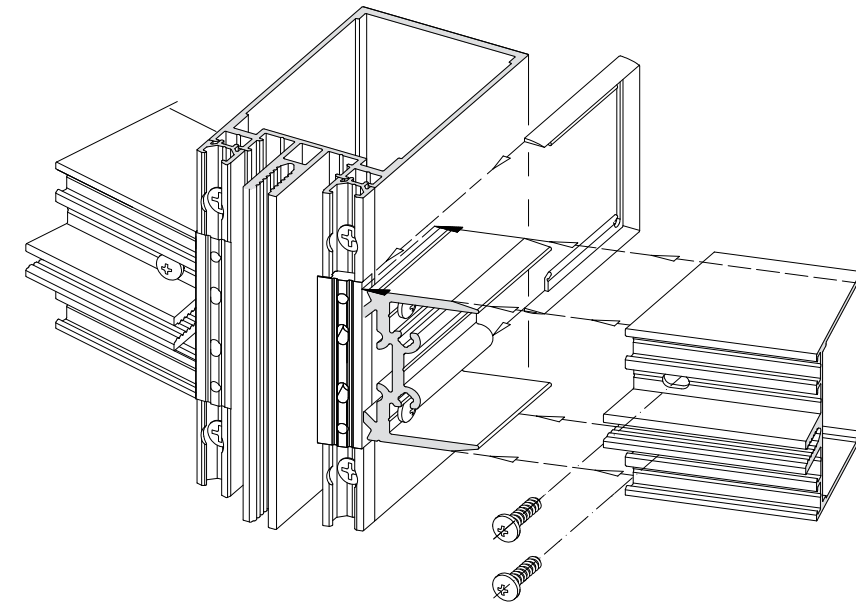


VARIABLE ANGLE SINGLE BLOCK FLAT CONNECTION MAX LOAD 220 LBS

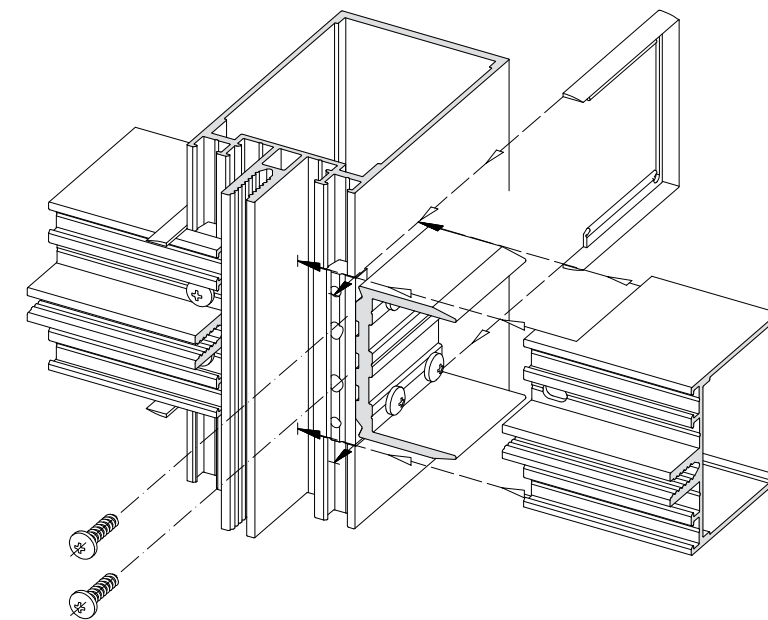


VARIABLE ANGLE SINGLE SUPPORTED BLOCK FLAT CONNECTION

MAX LOAD 390 LBS

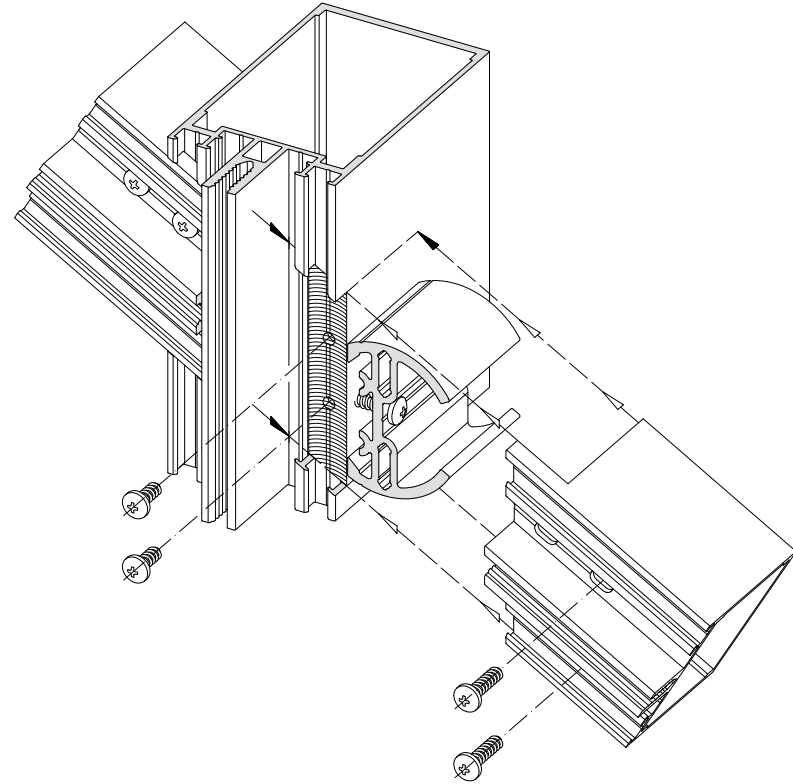


SINGLE BLOCK NOTCH CONNECTION MAX LOAD 390 LBS

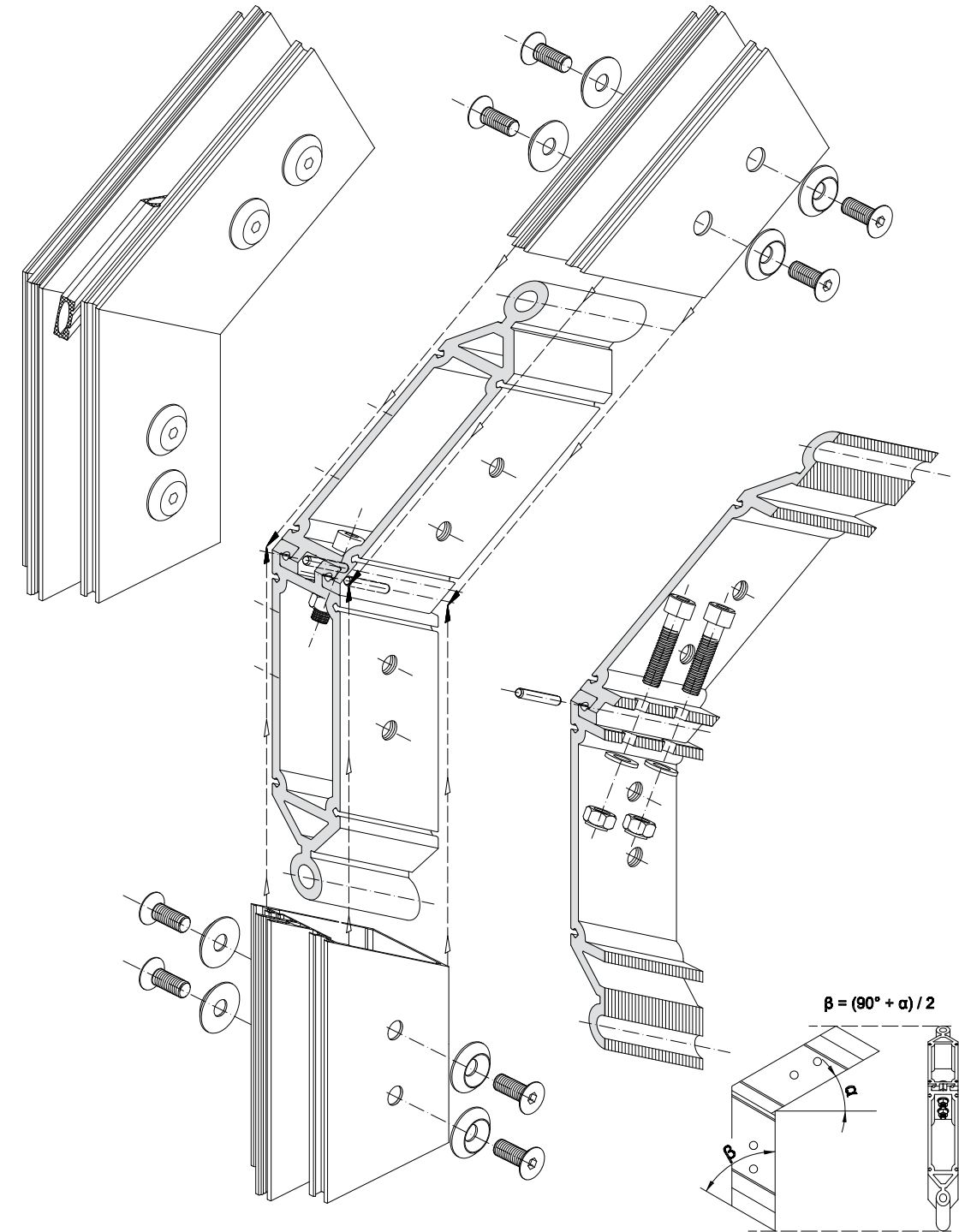
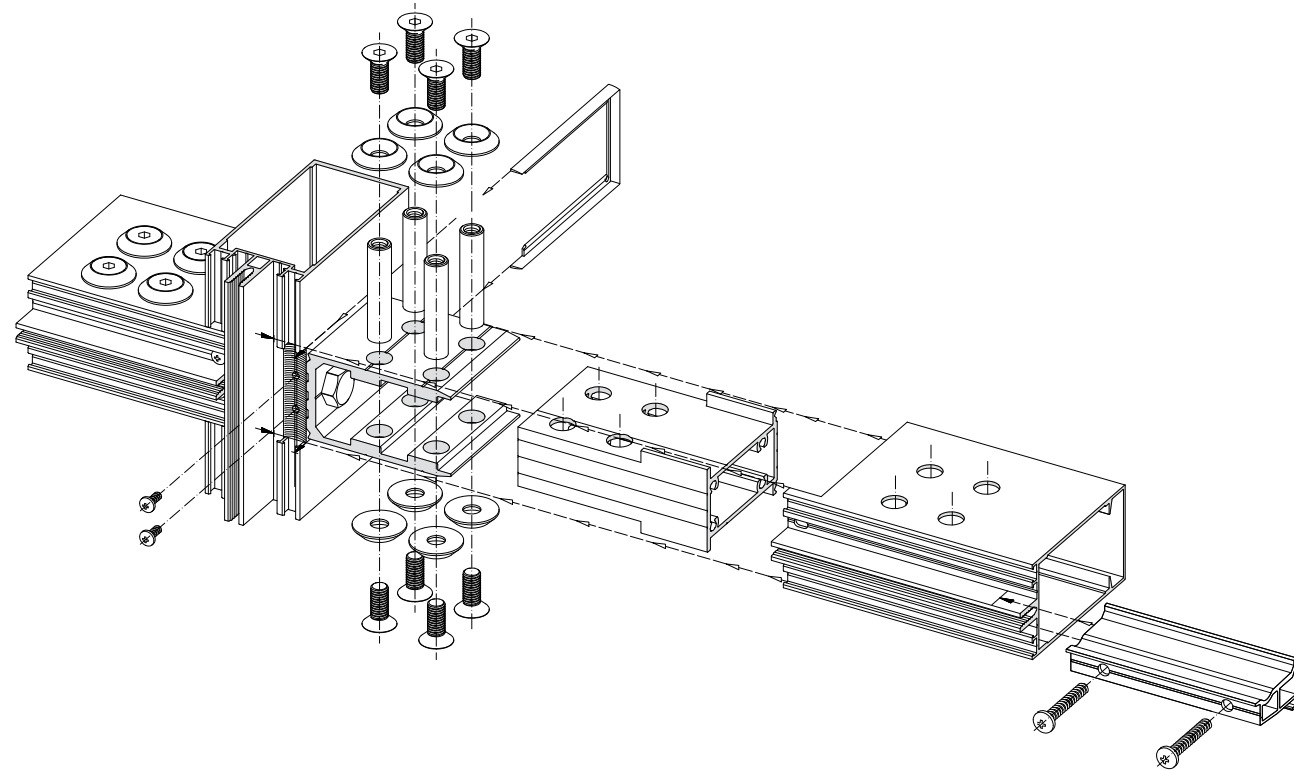


VARIABLE ANGLE SINGLE BLOCK DOUBLE NOTCH CONNECTION MAX LOAD 530 LBS

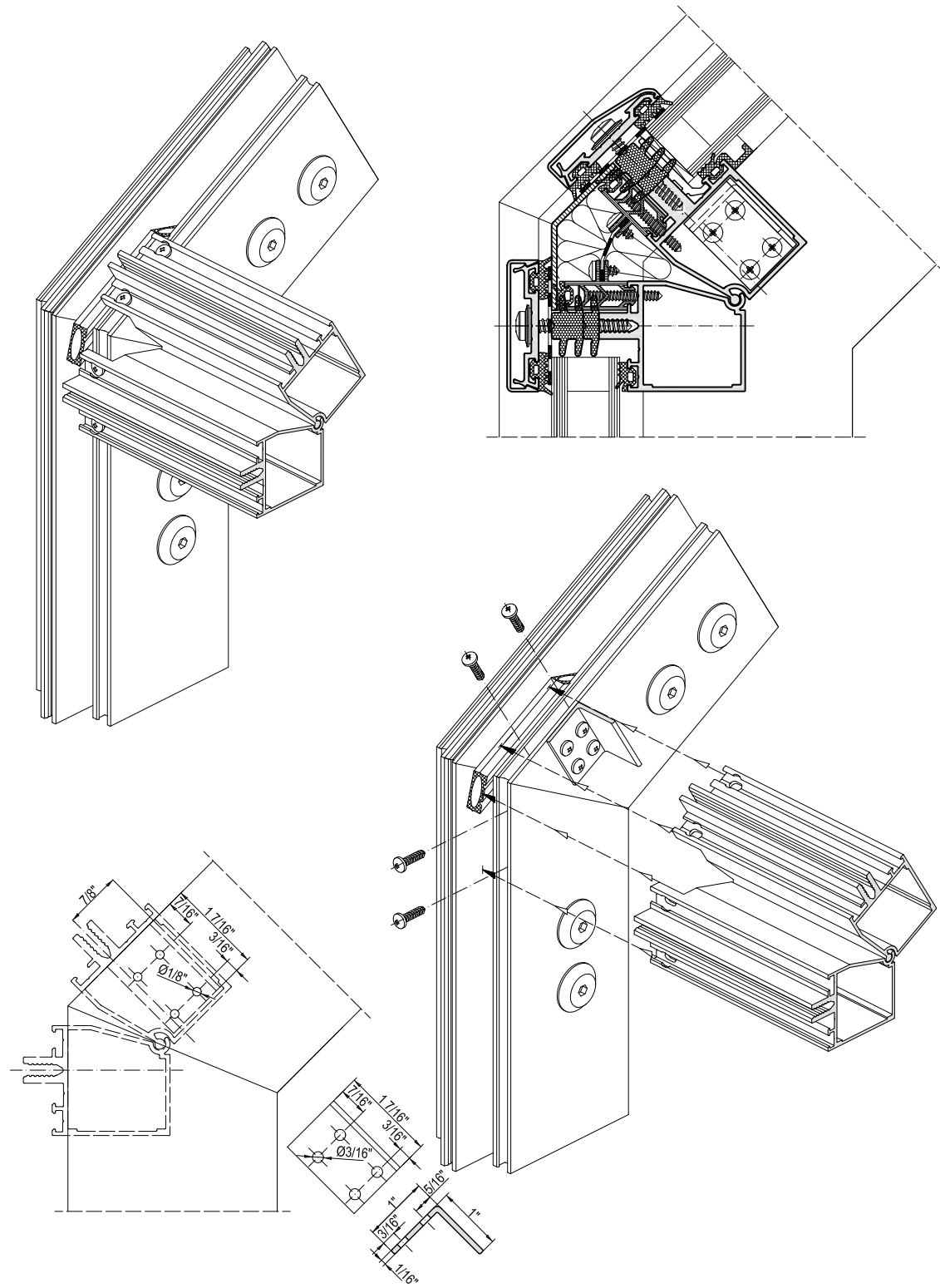
SLOPE SURFACE SOLUTION



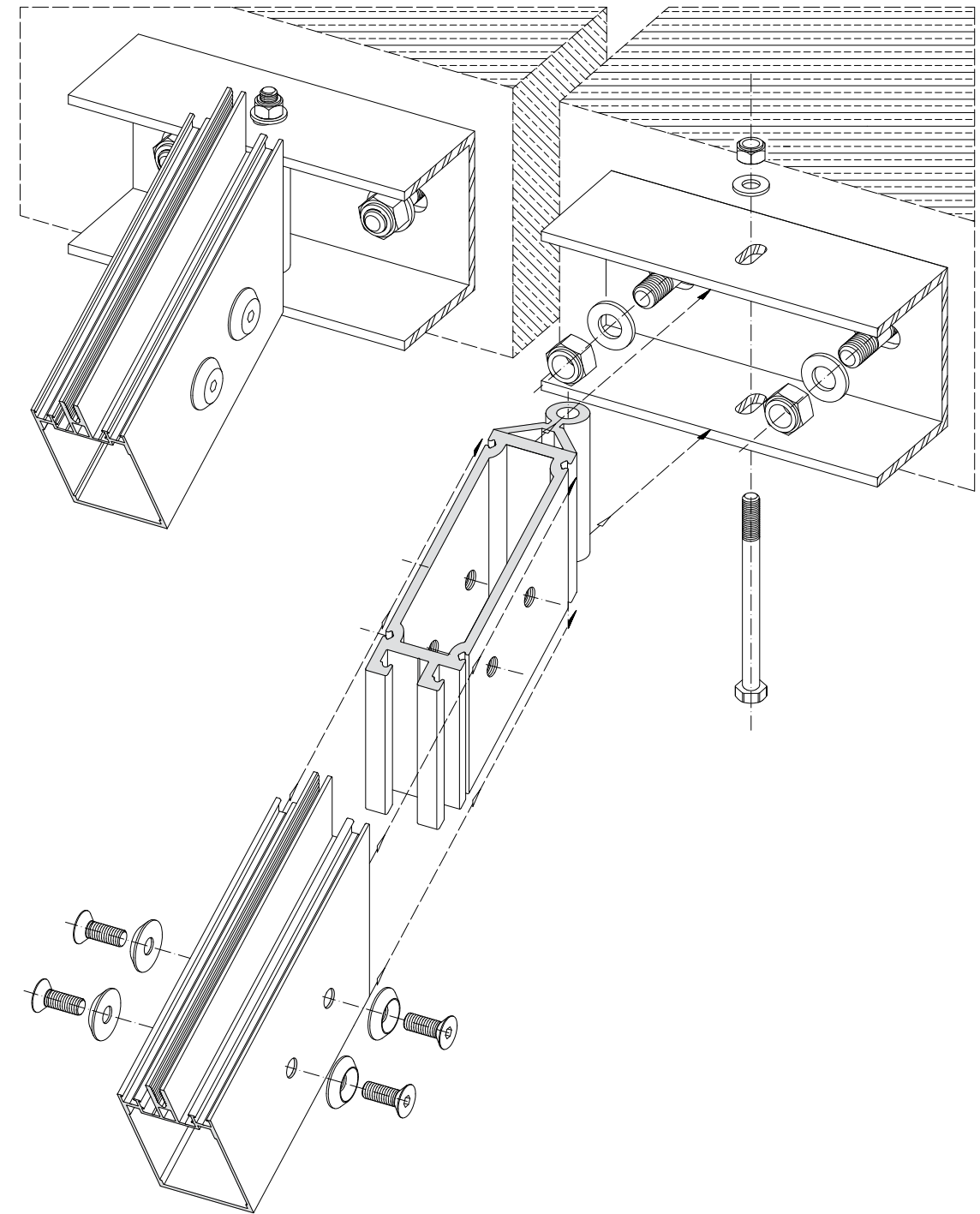
SINGLE BLOCK HEAVY DUTY DOUBLE NOTCH CONNECTION MAX LOAD 1100 LBS



SLOPE SURFACE WITH HORIZONTAL MULLIONS

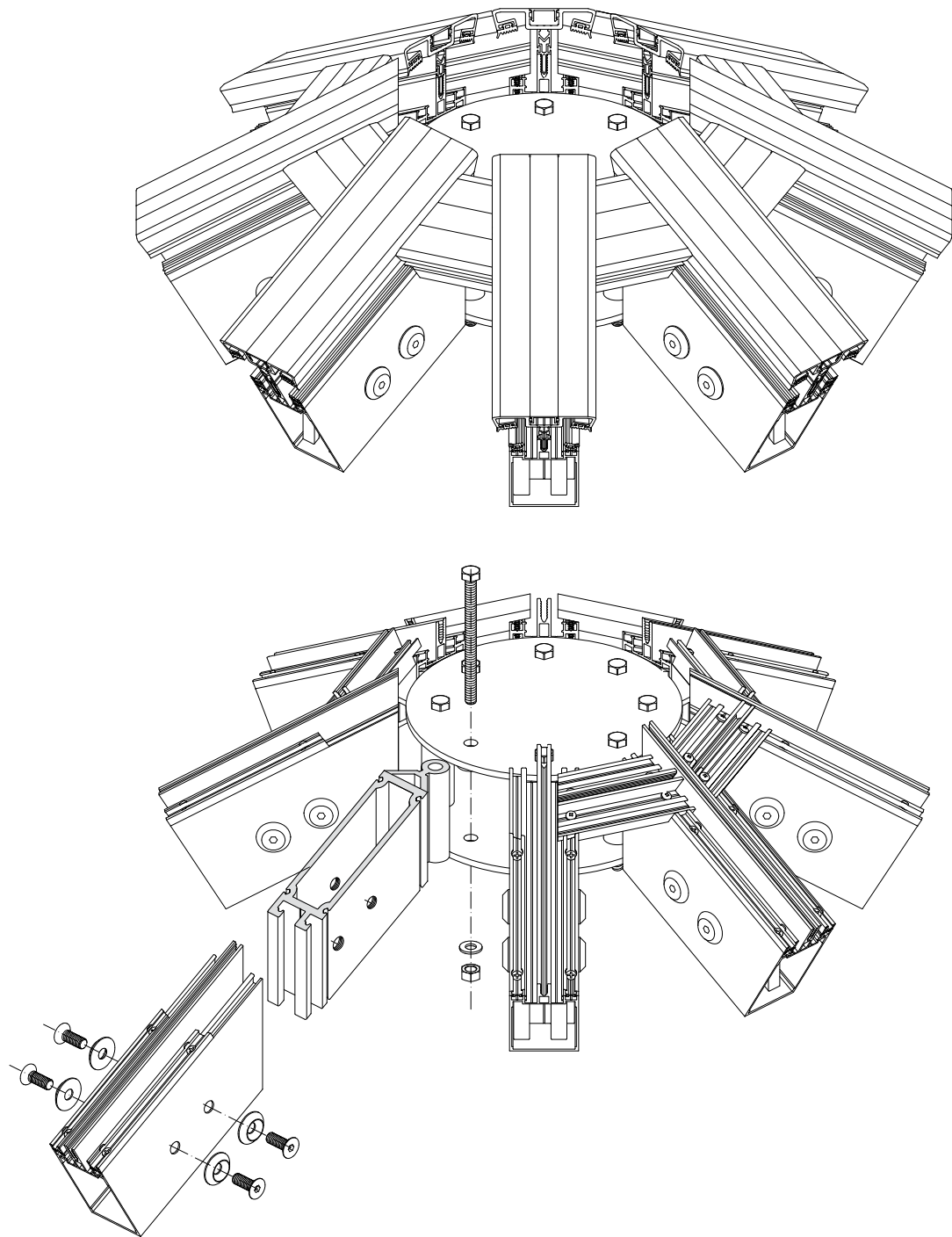


SLOPE CONNECTION TO WALL

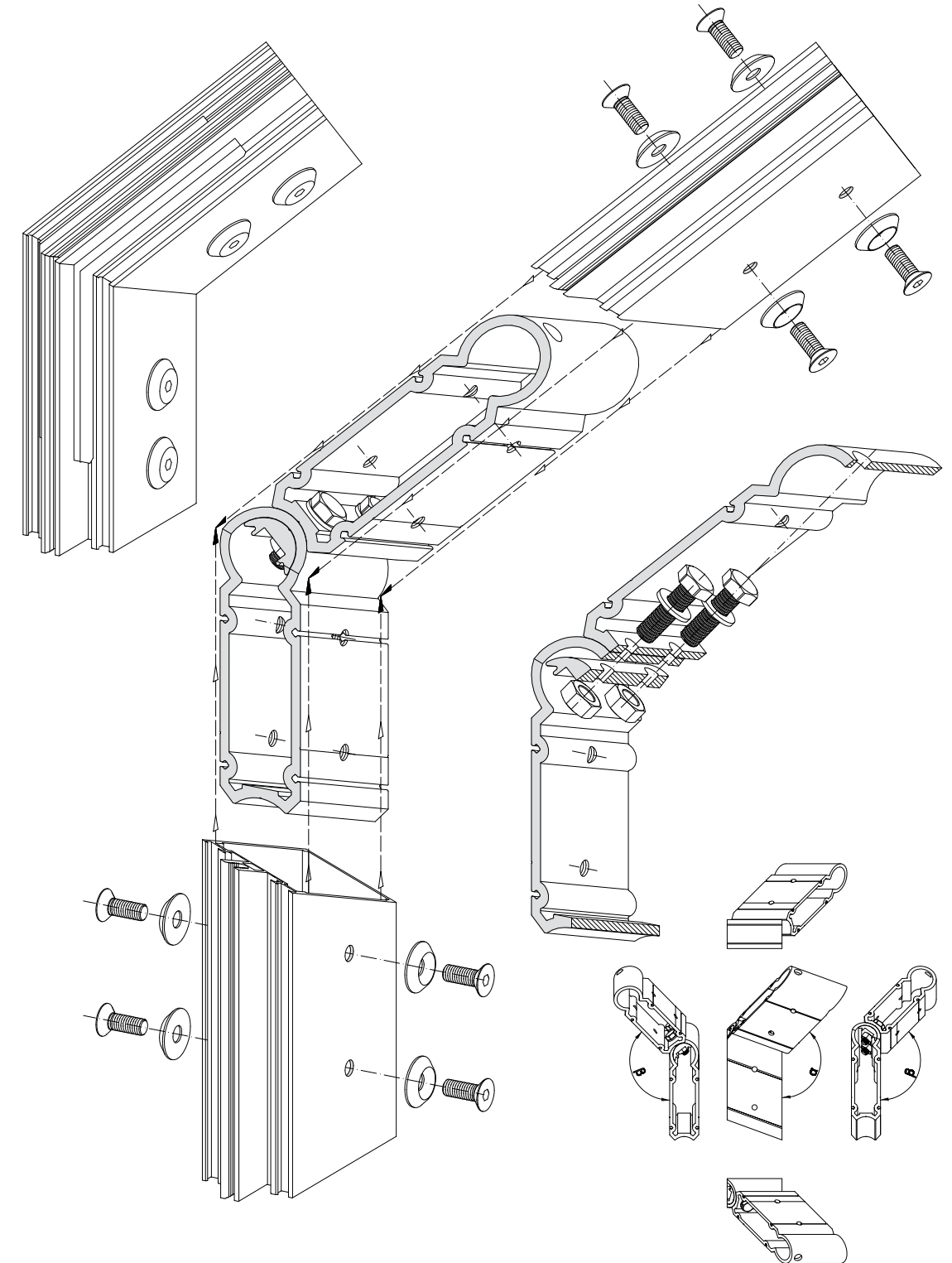




PYRAMIDAL CONNECTION

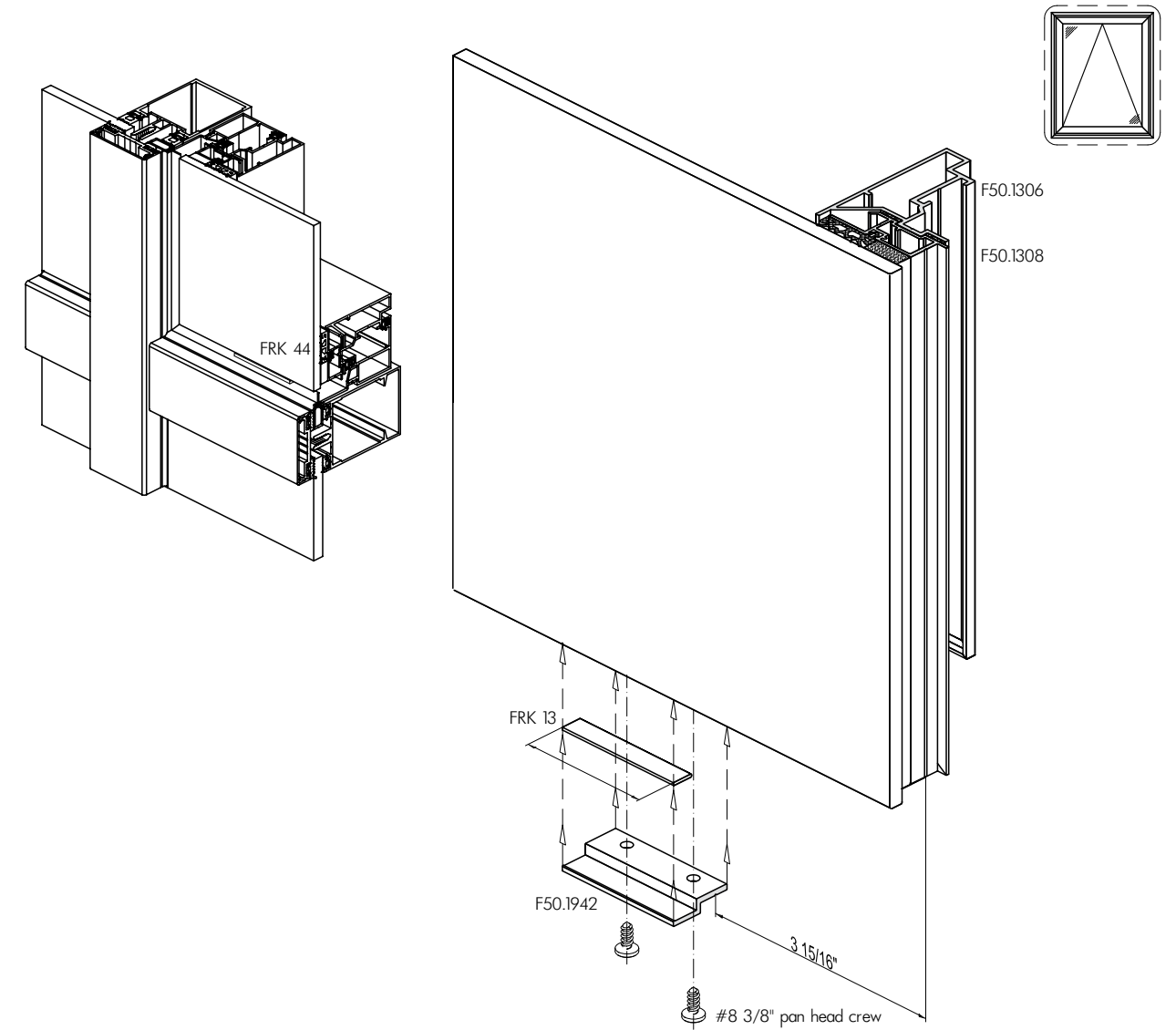
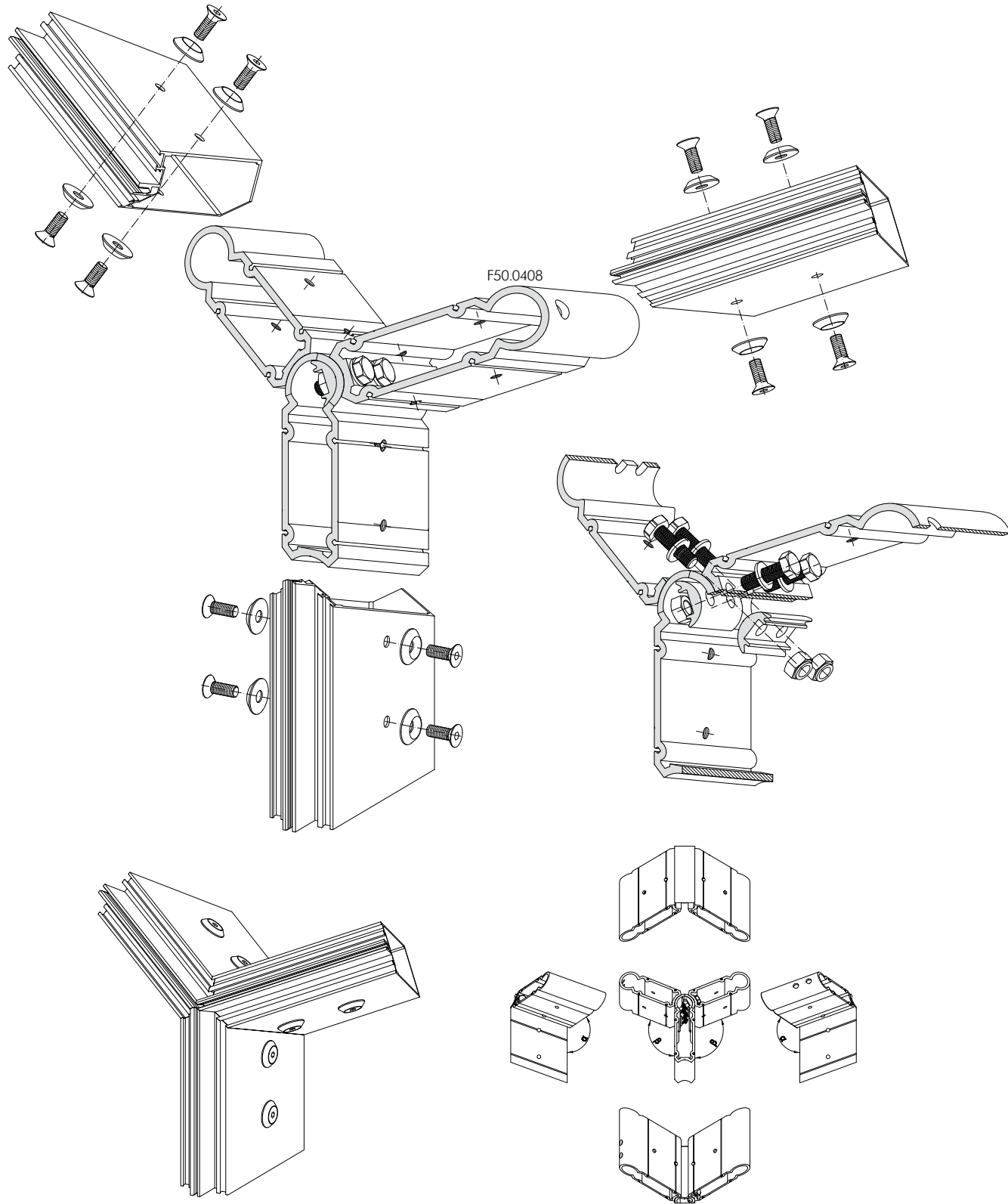


SHAPE AND CURVED FACADE SOLUTION



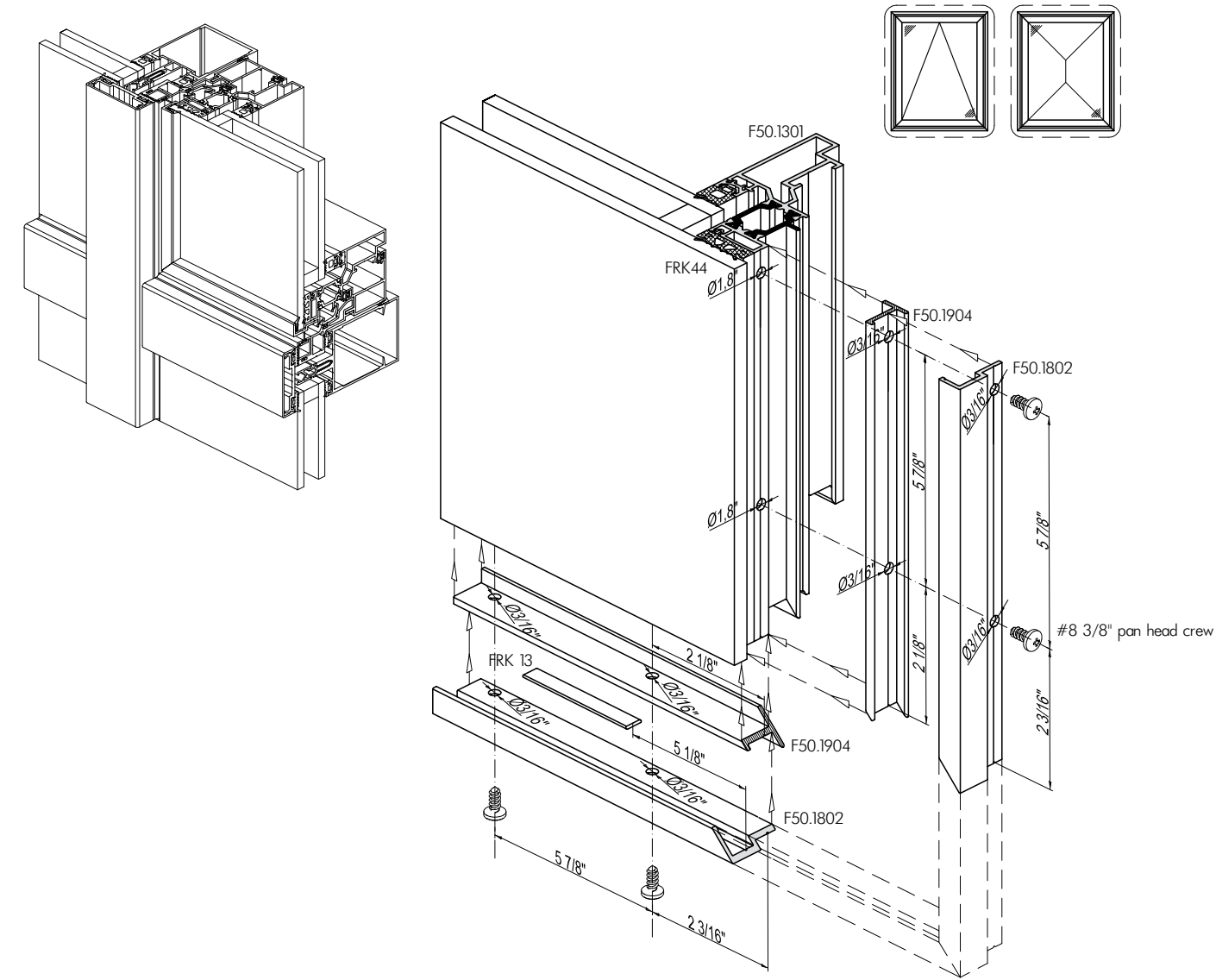
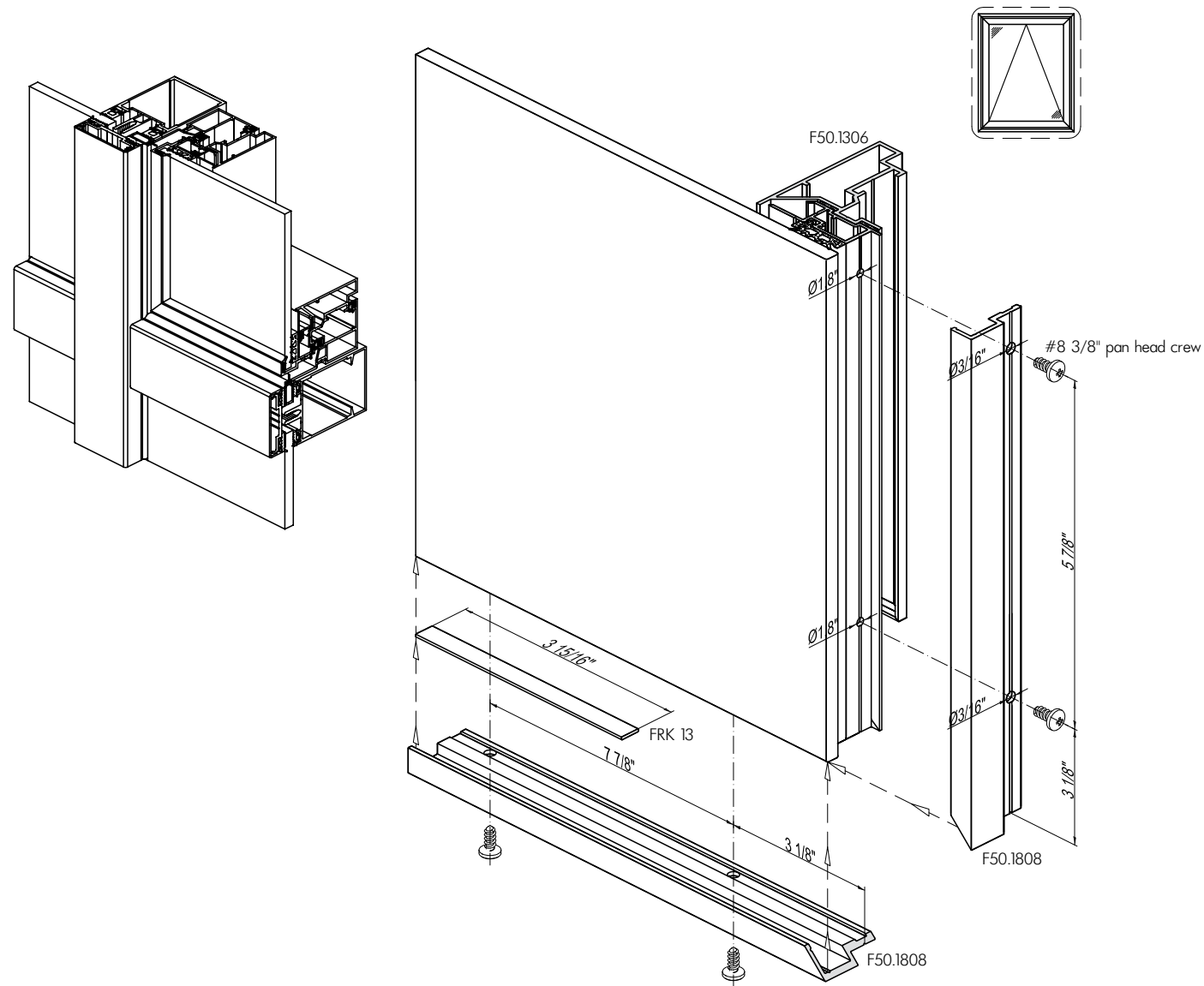
## 3 WAY MULTI SURFACE CONNECTION

## F50 CAPTURE GLAZED INTEGRATED WINDOWS



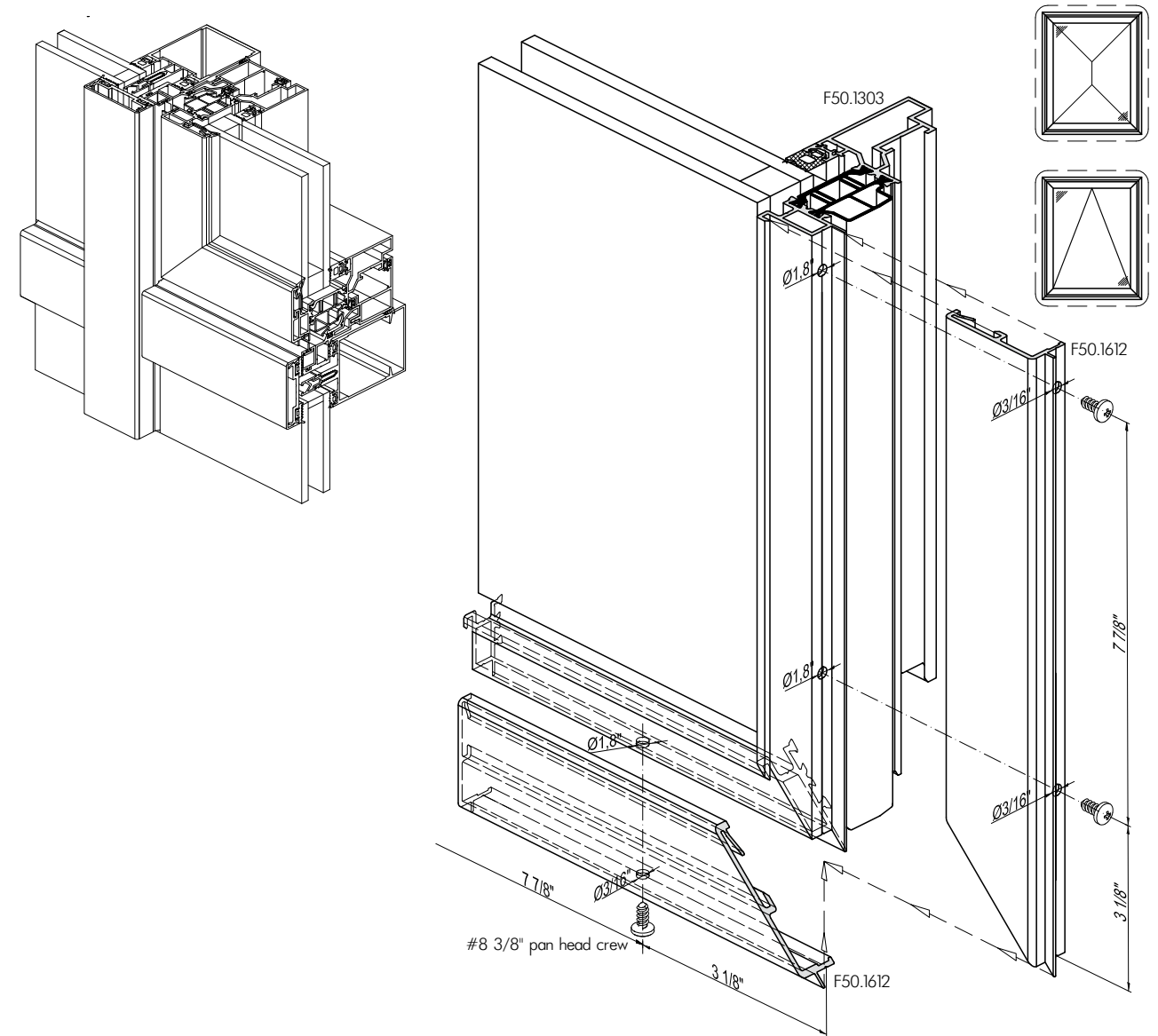
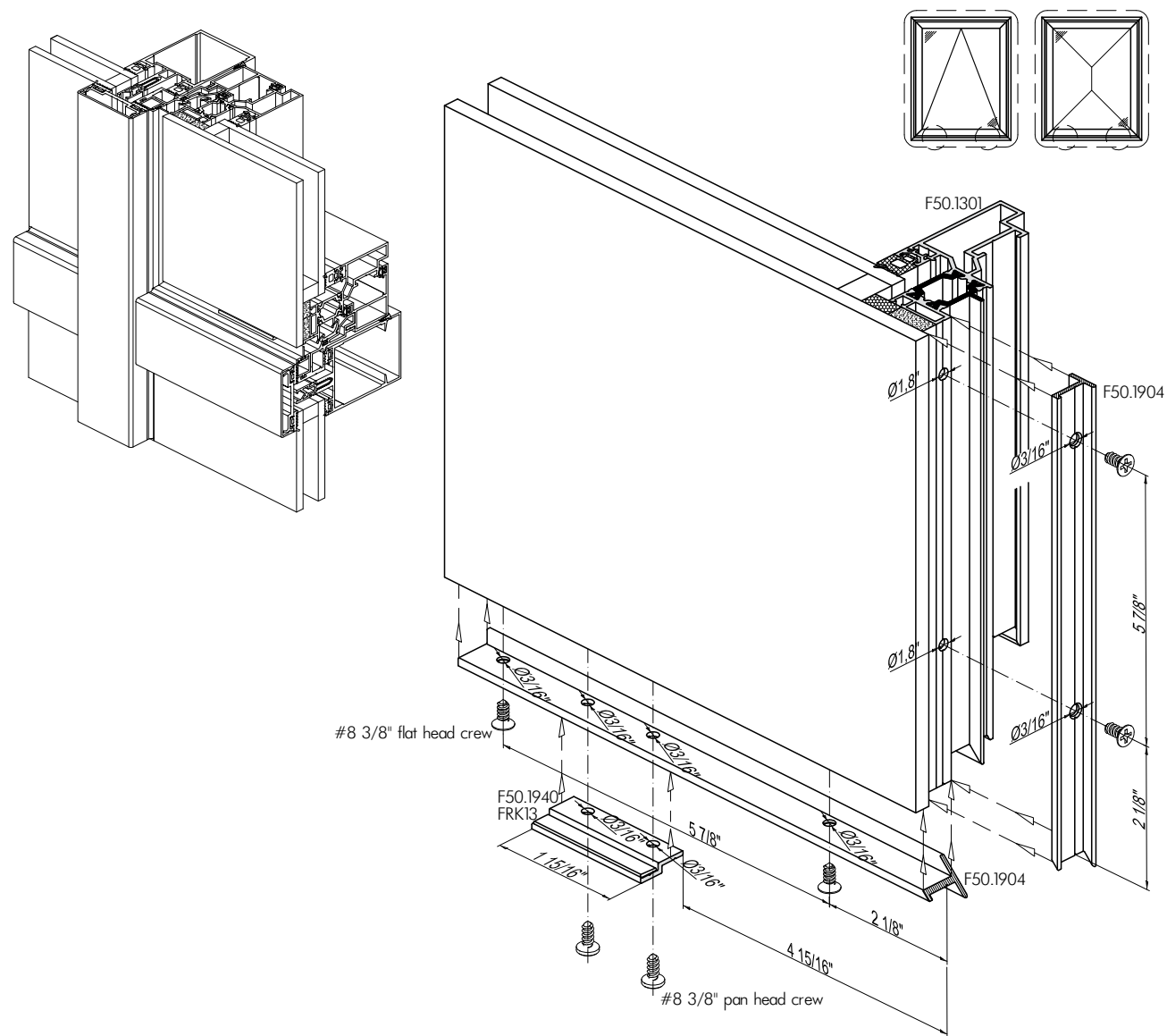
F50 CAPTURE GLAZED INTEGRATED WINDOWS

F50 CAPTURE GLAZED INTEGRATED WINDOWS

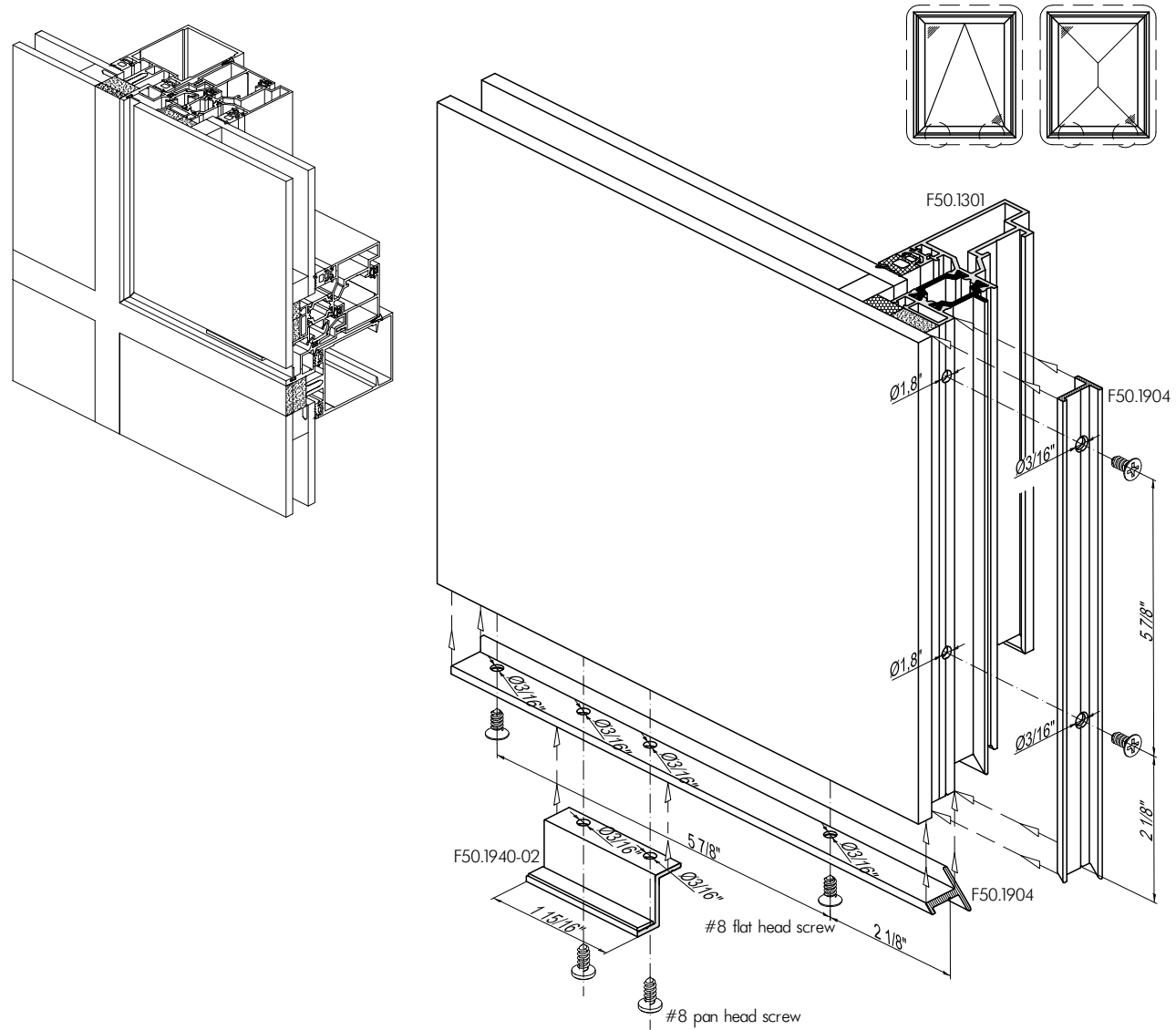


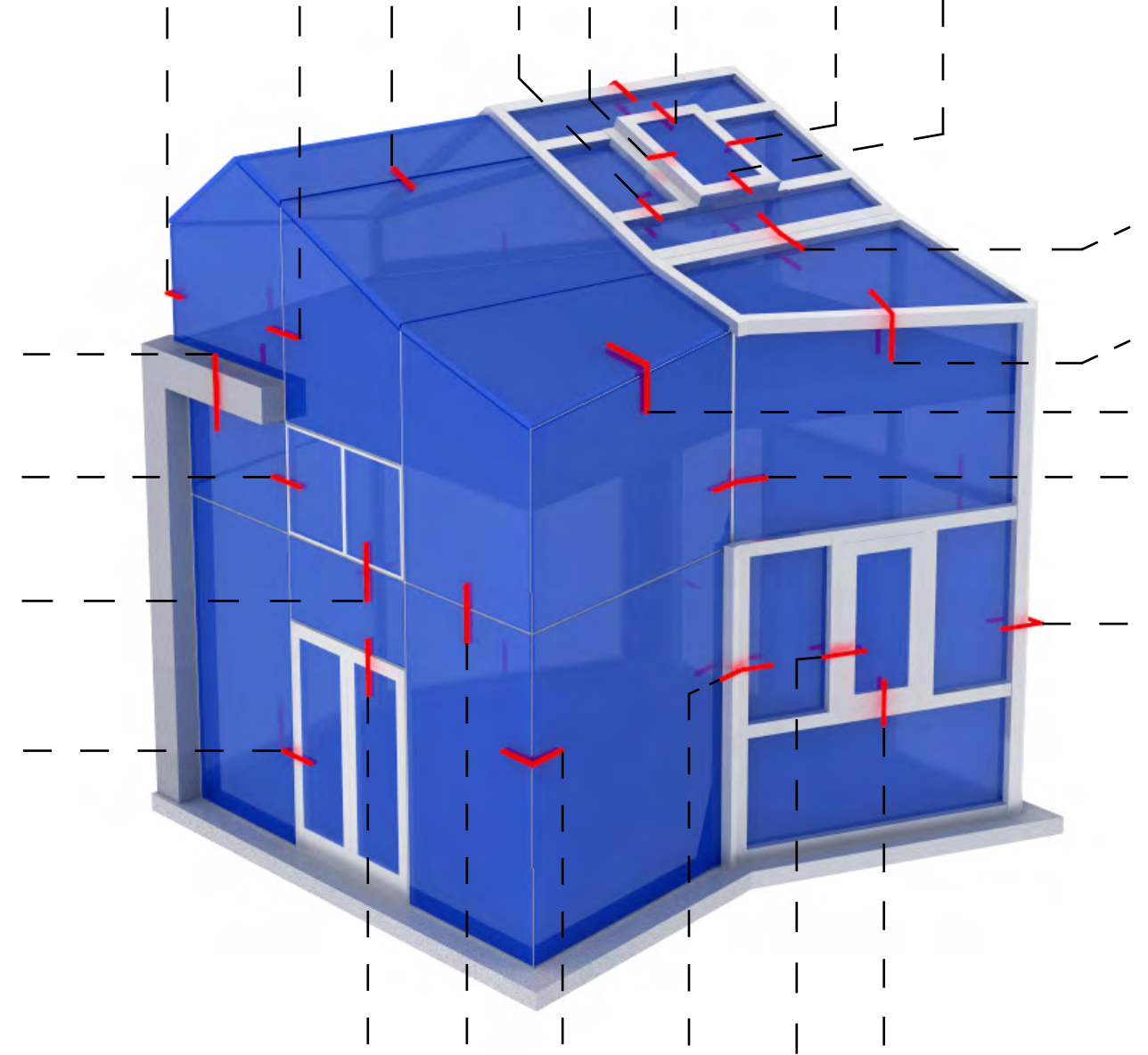
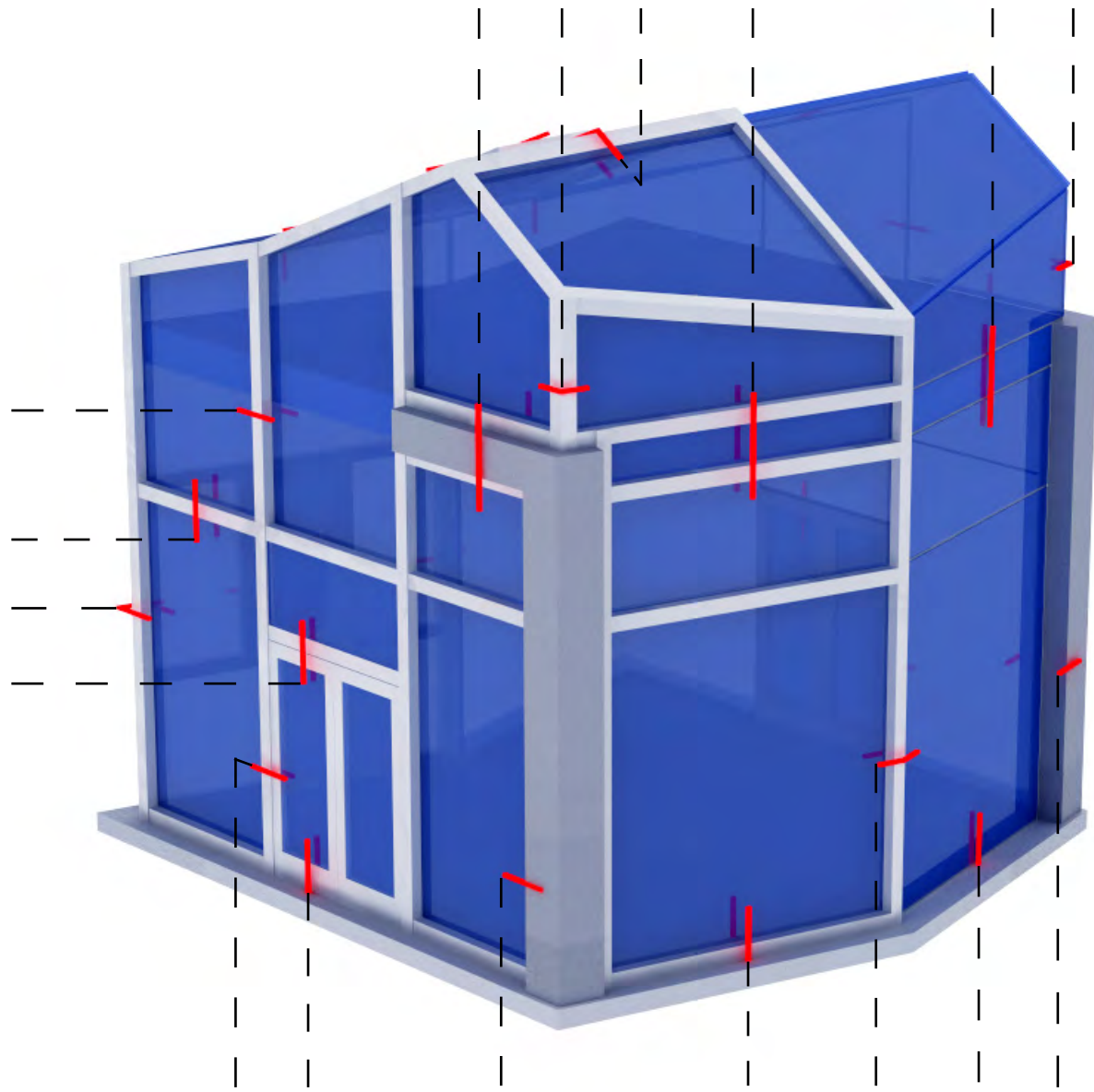
F50 CAPTURE GLAZED INTEGRATED WINDOWS

F50 CAPTURE GLAZED INTEGRATED WINDOWS

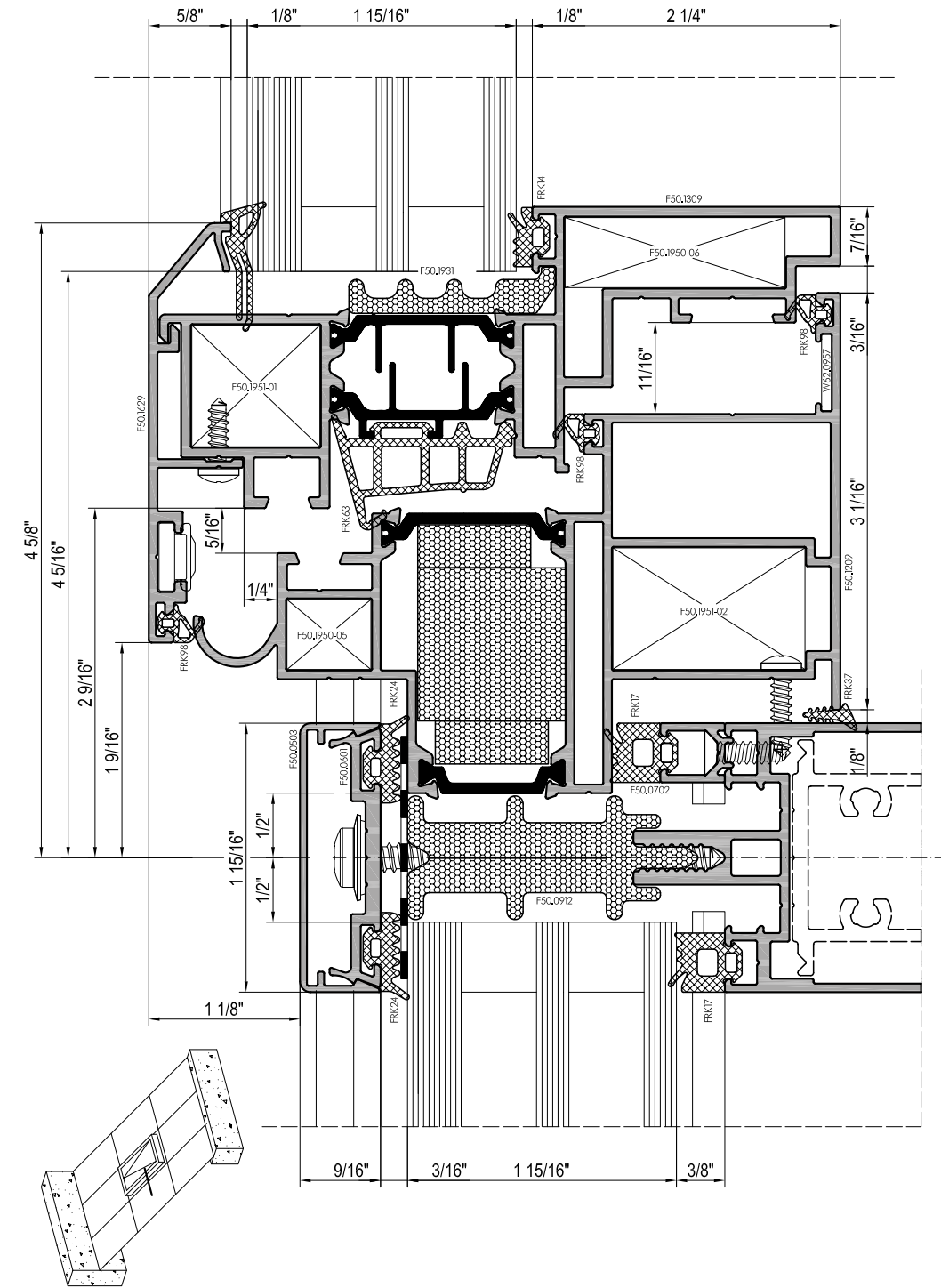
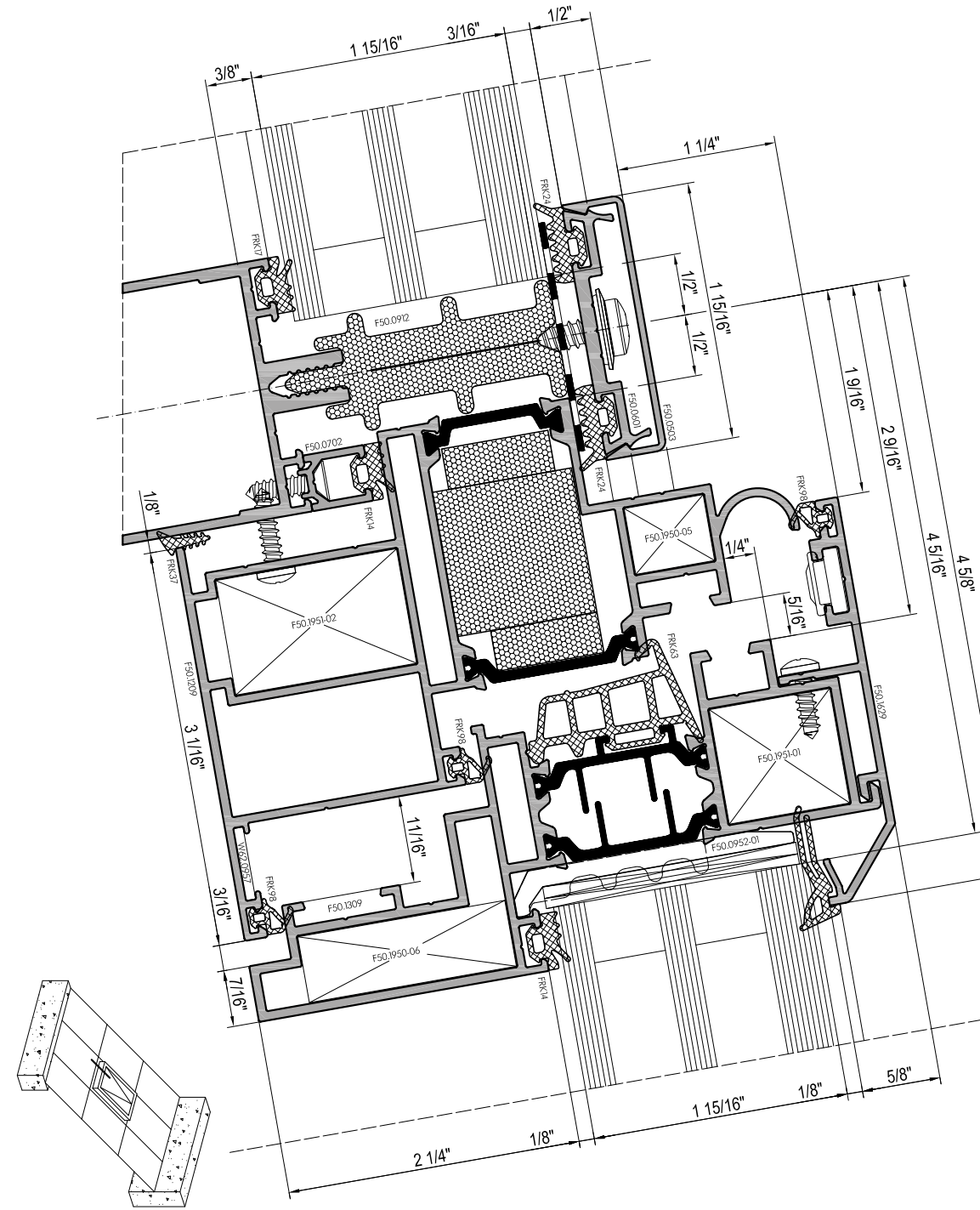


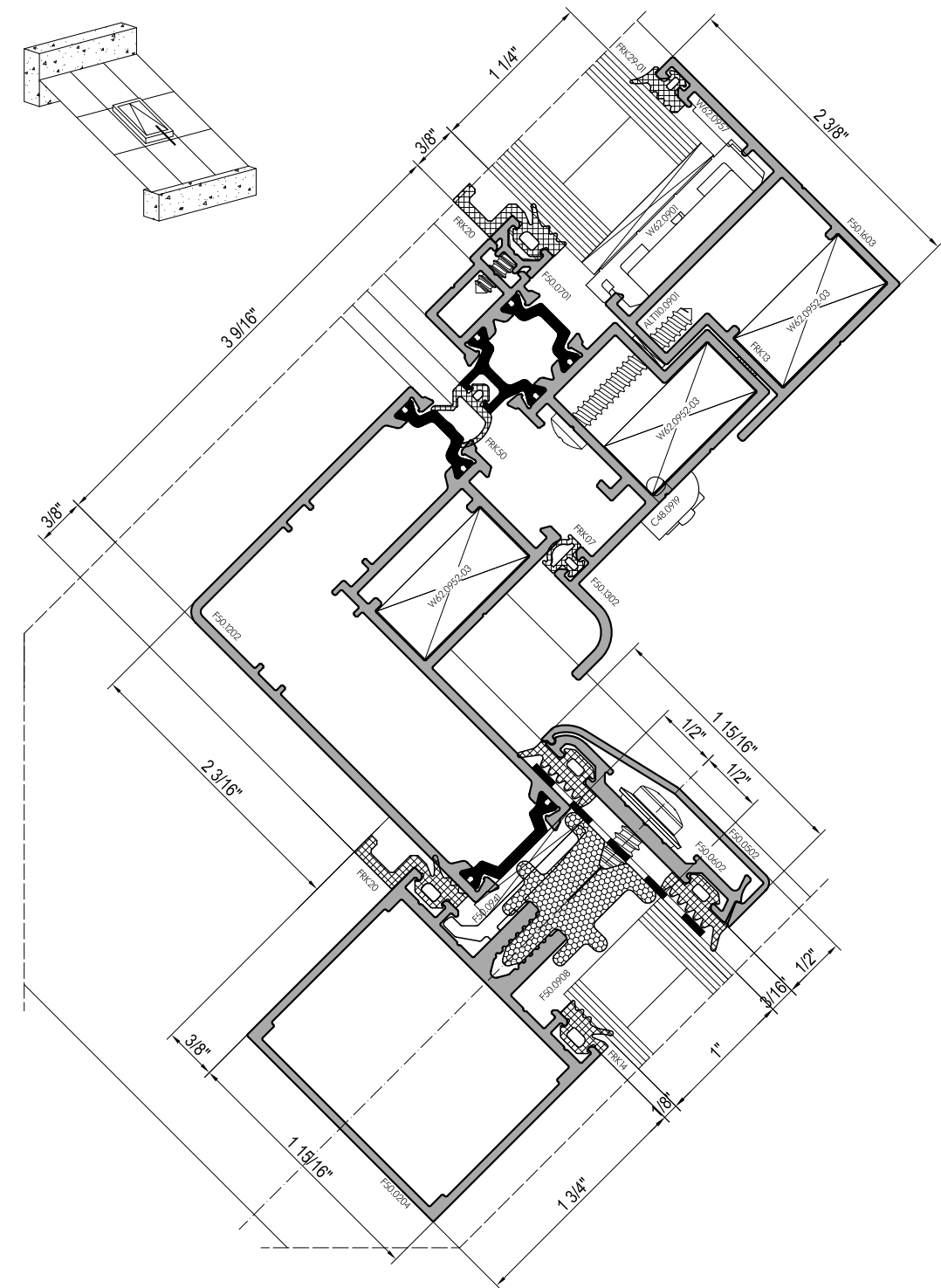
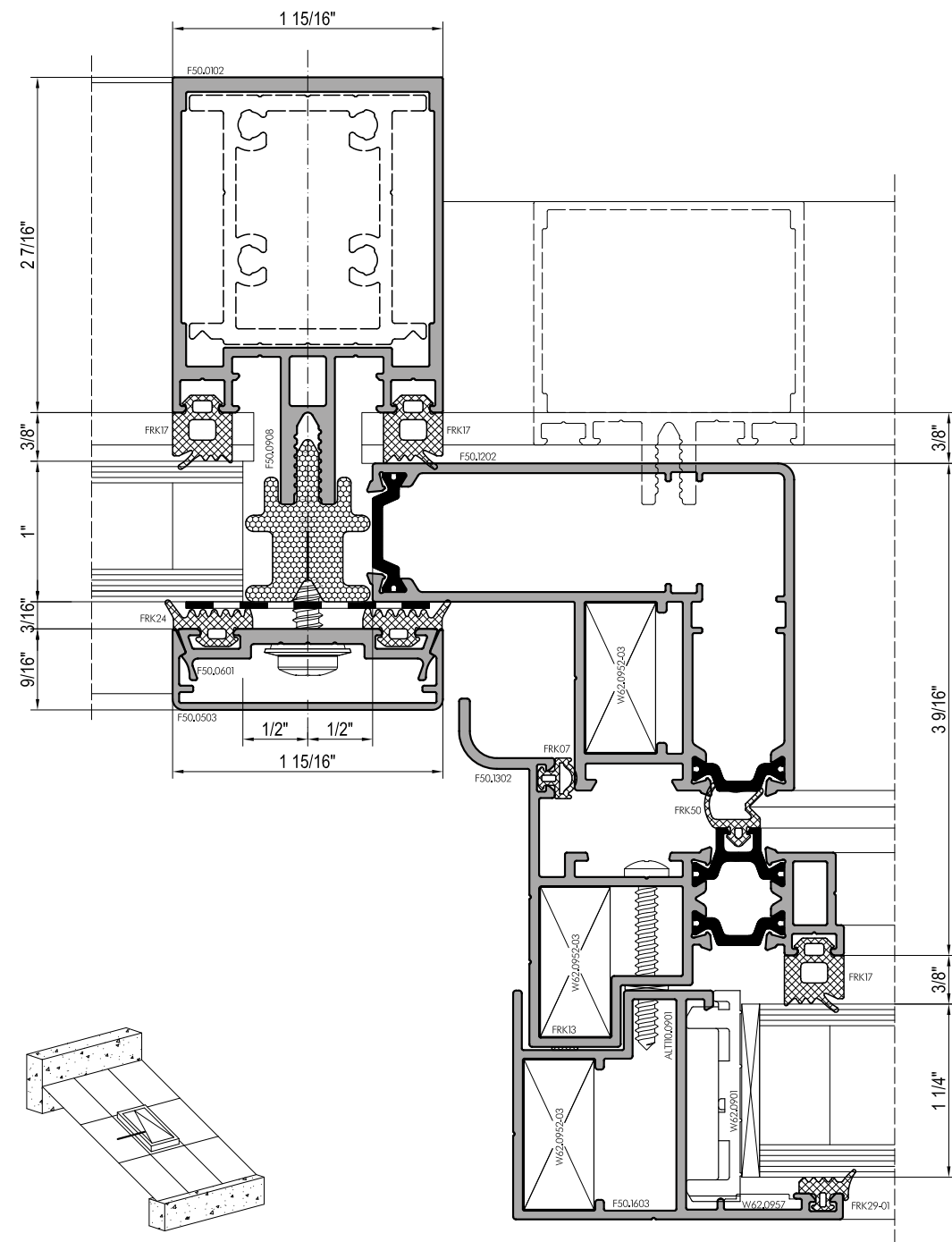
## F50 STRUCTURALLY GLAZED INTEGRATED WINDOW



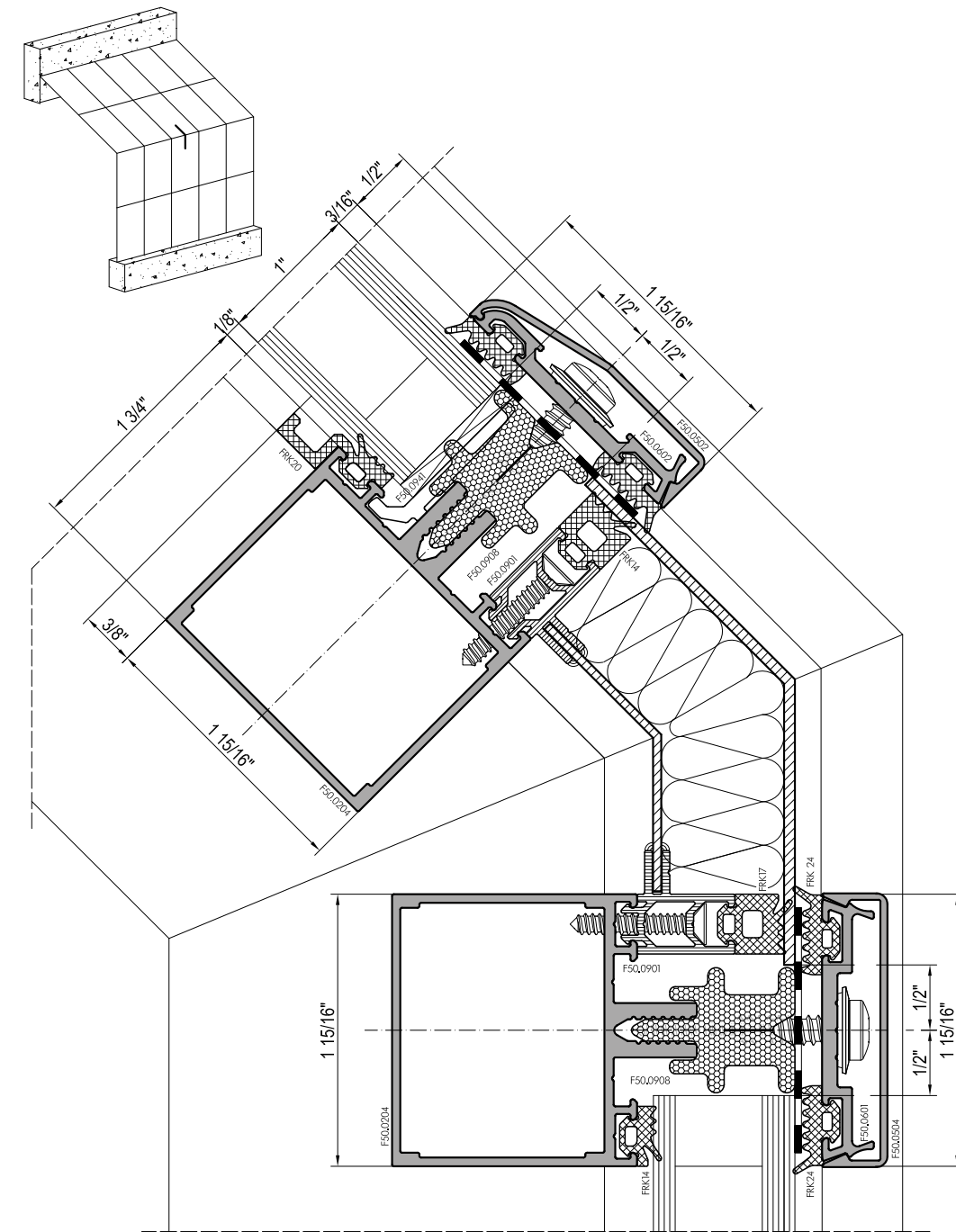
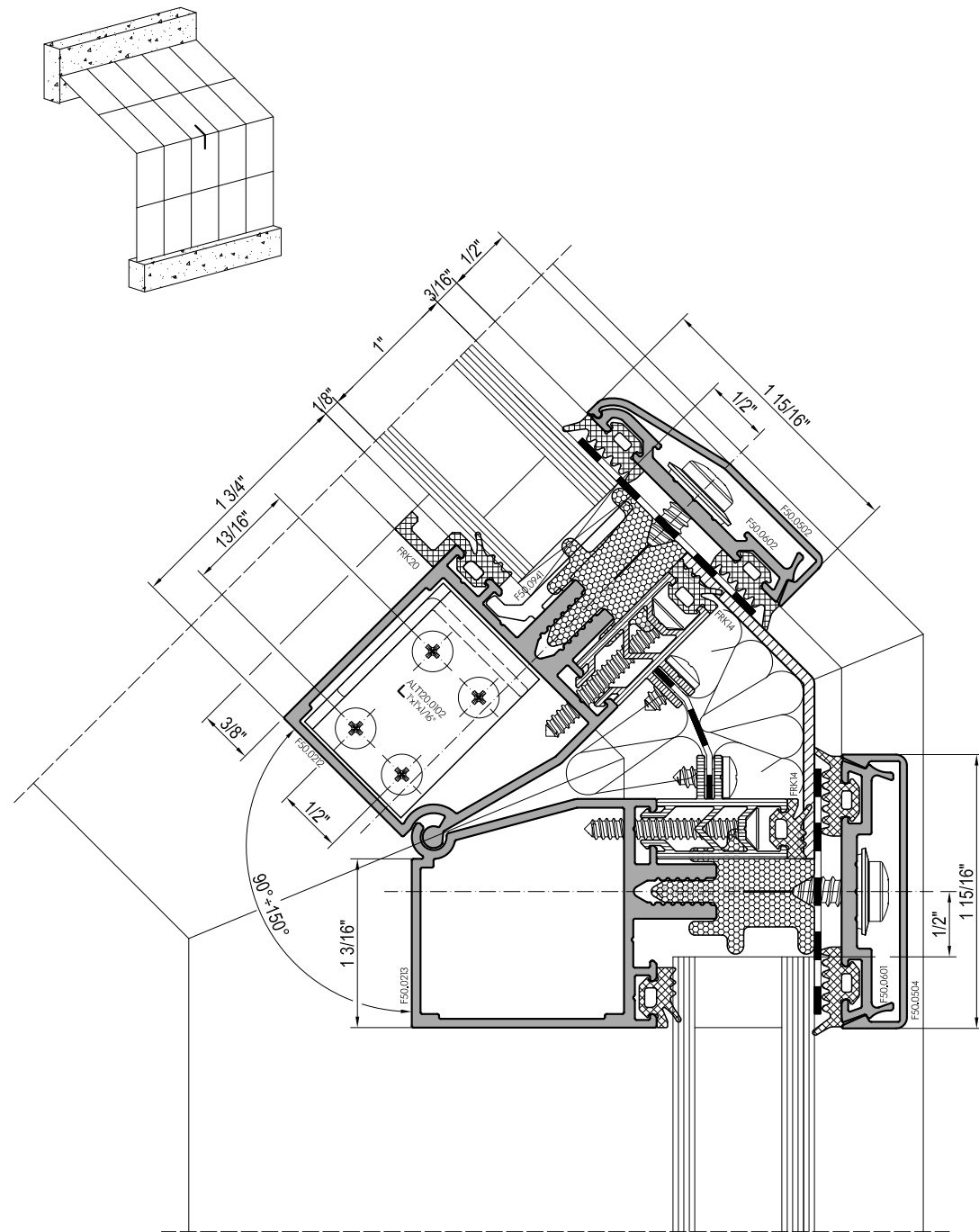


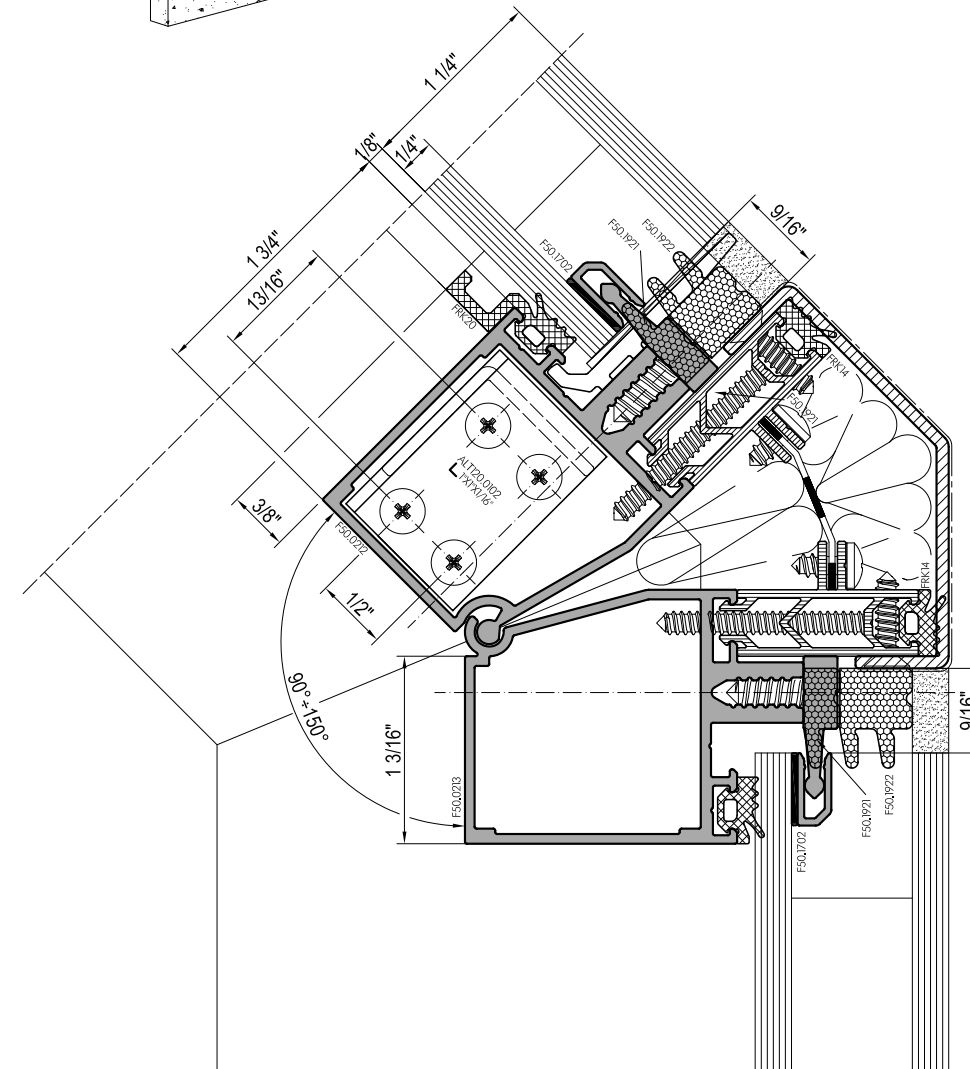
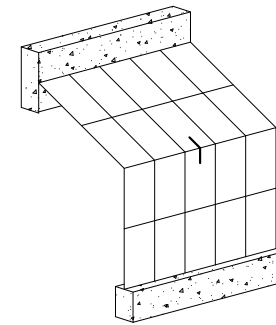
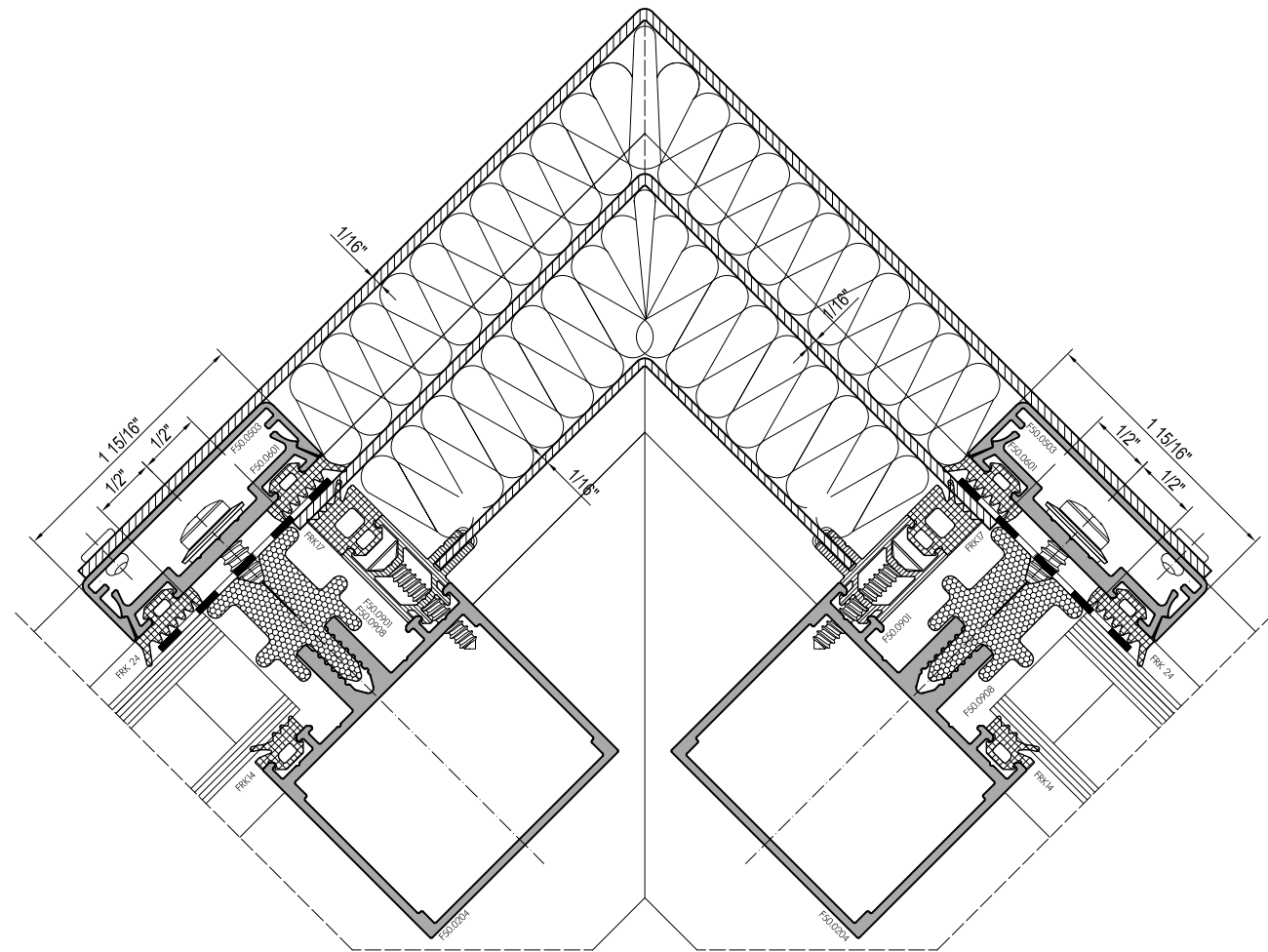
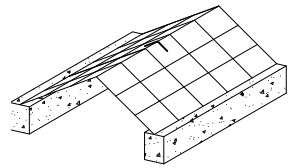
TYPICAL SECTIONS

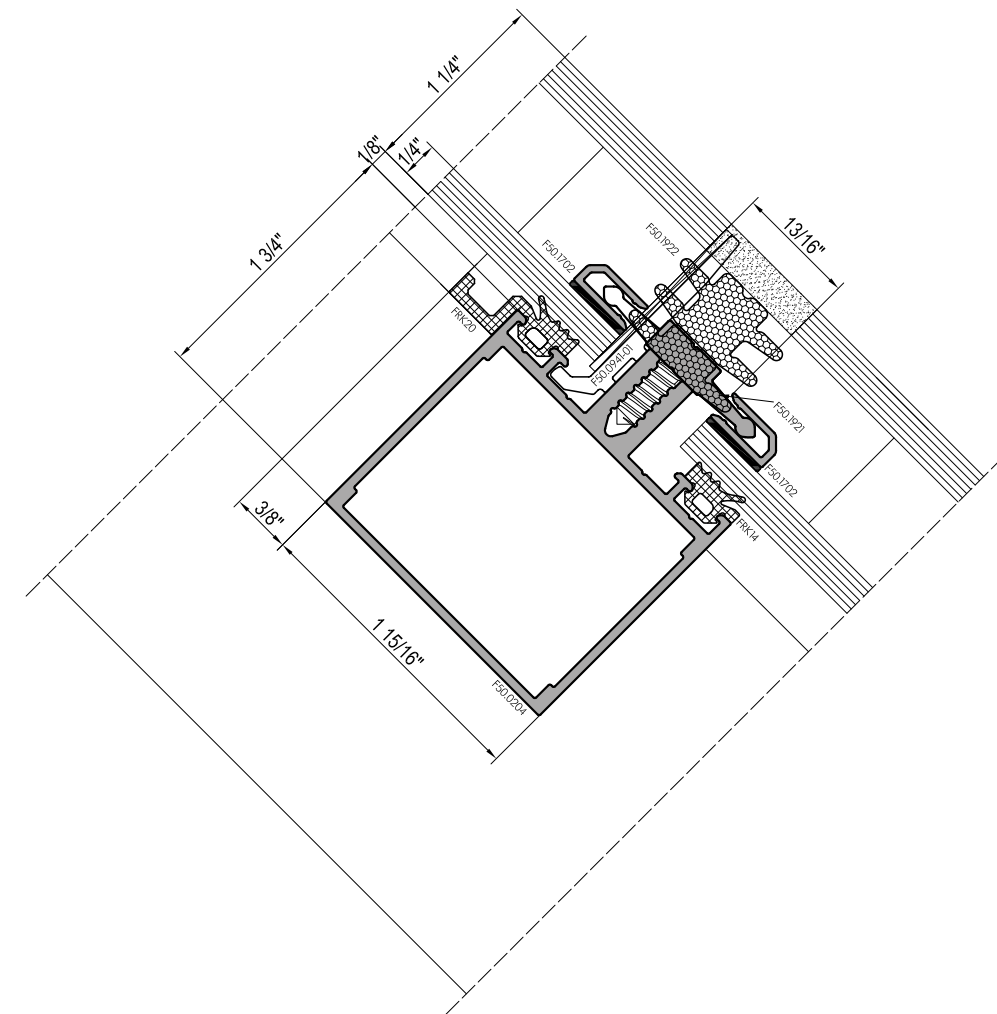
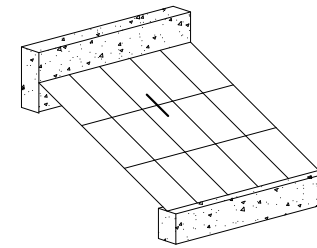
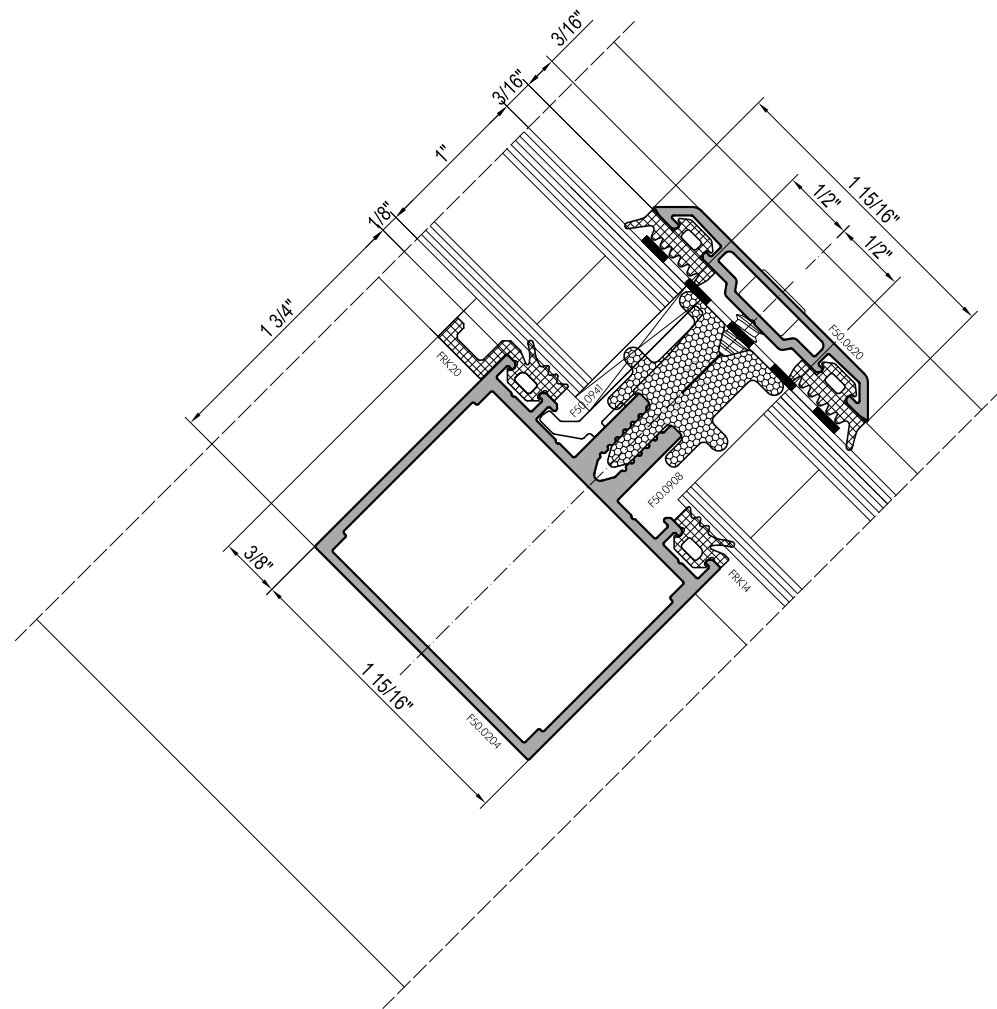
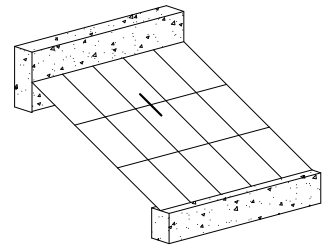


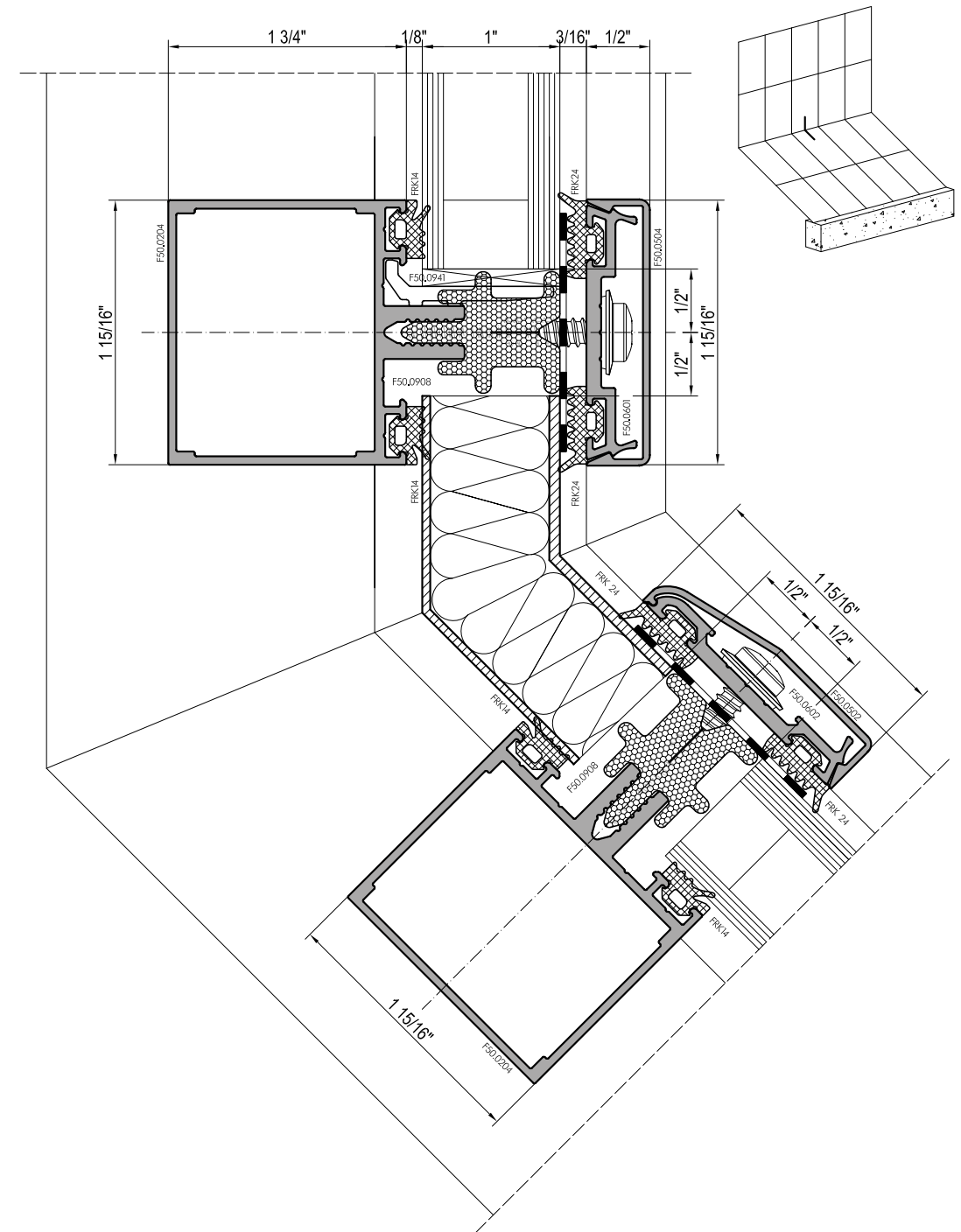
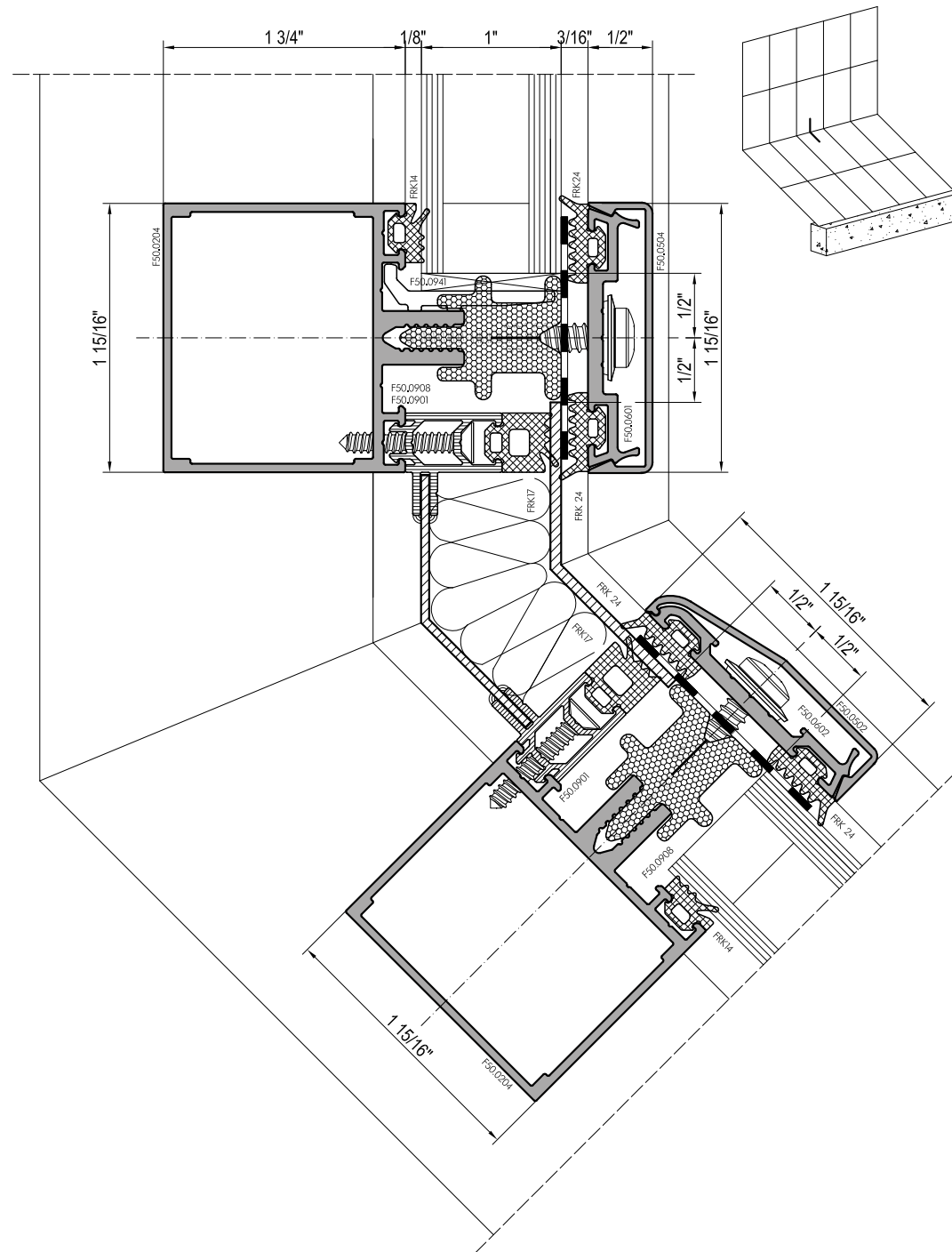


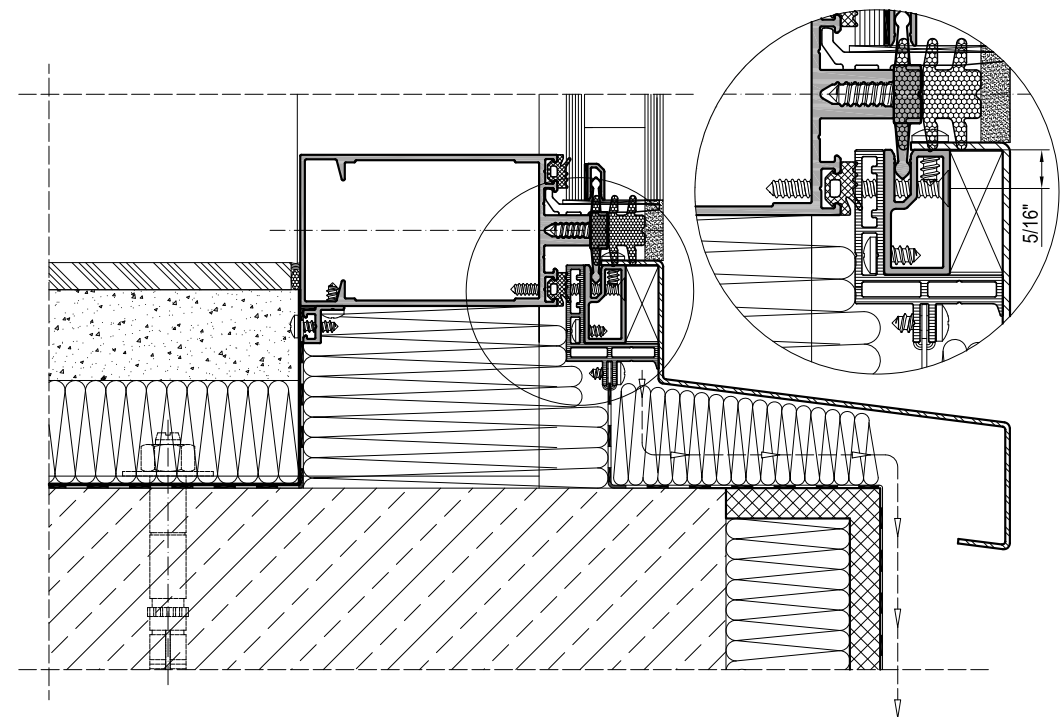
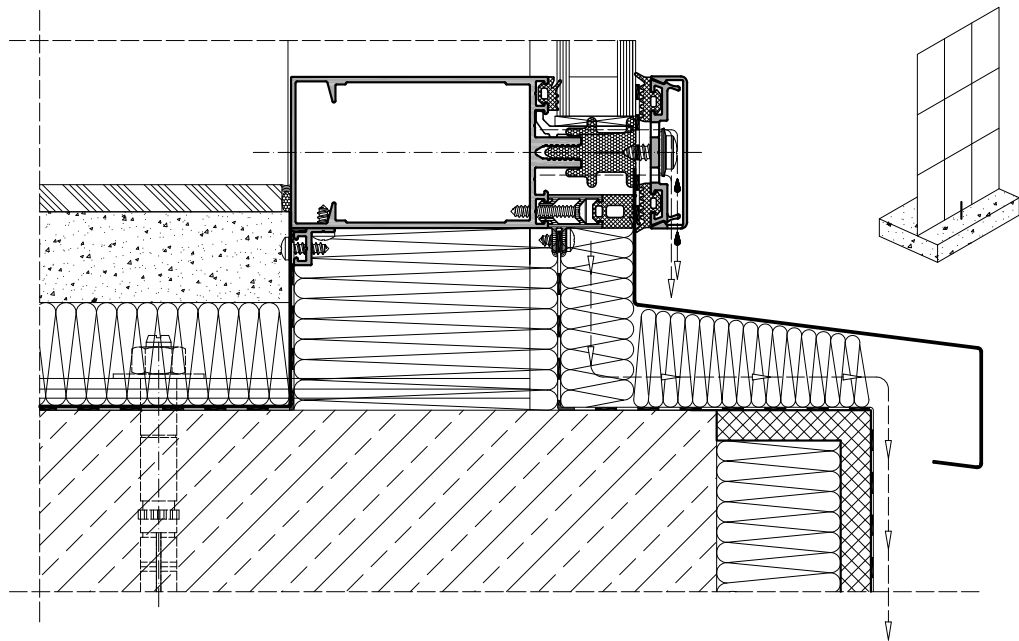
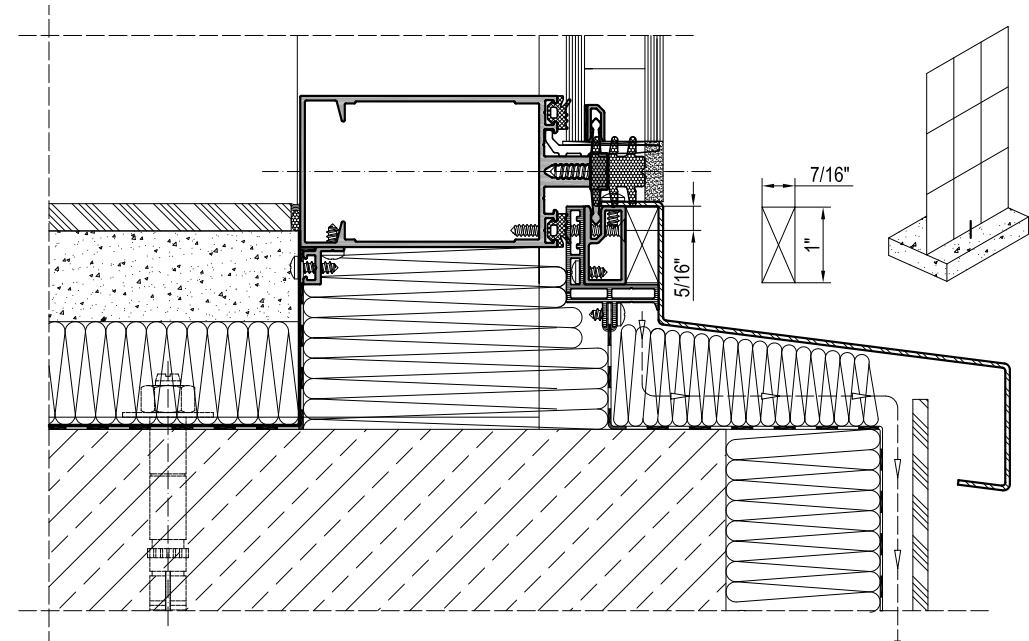
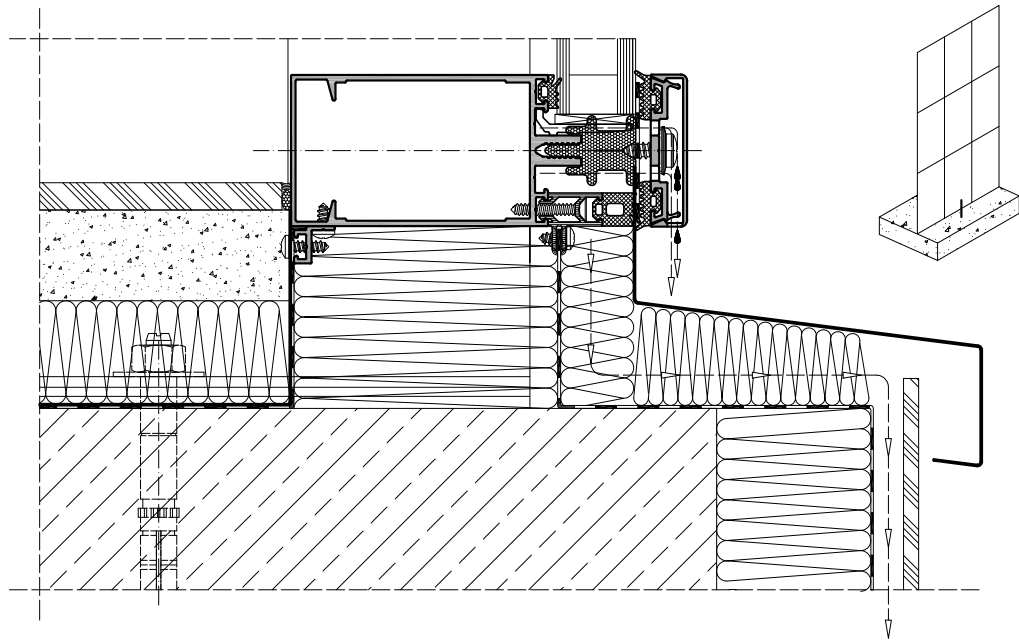


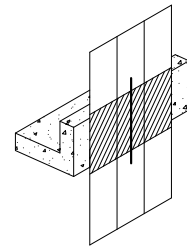
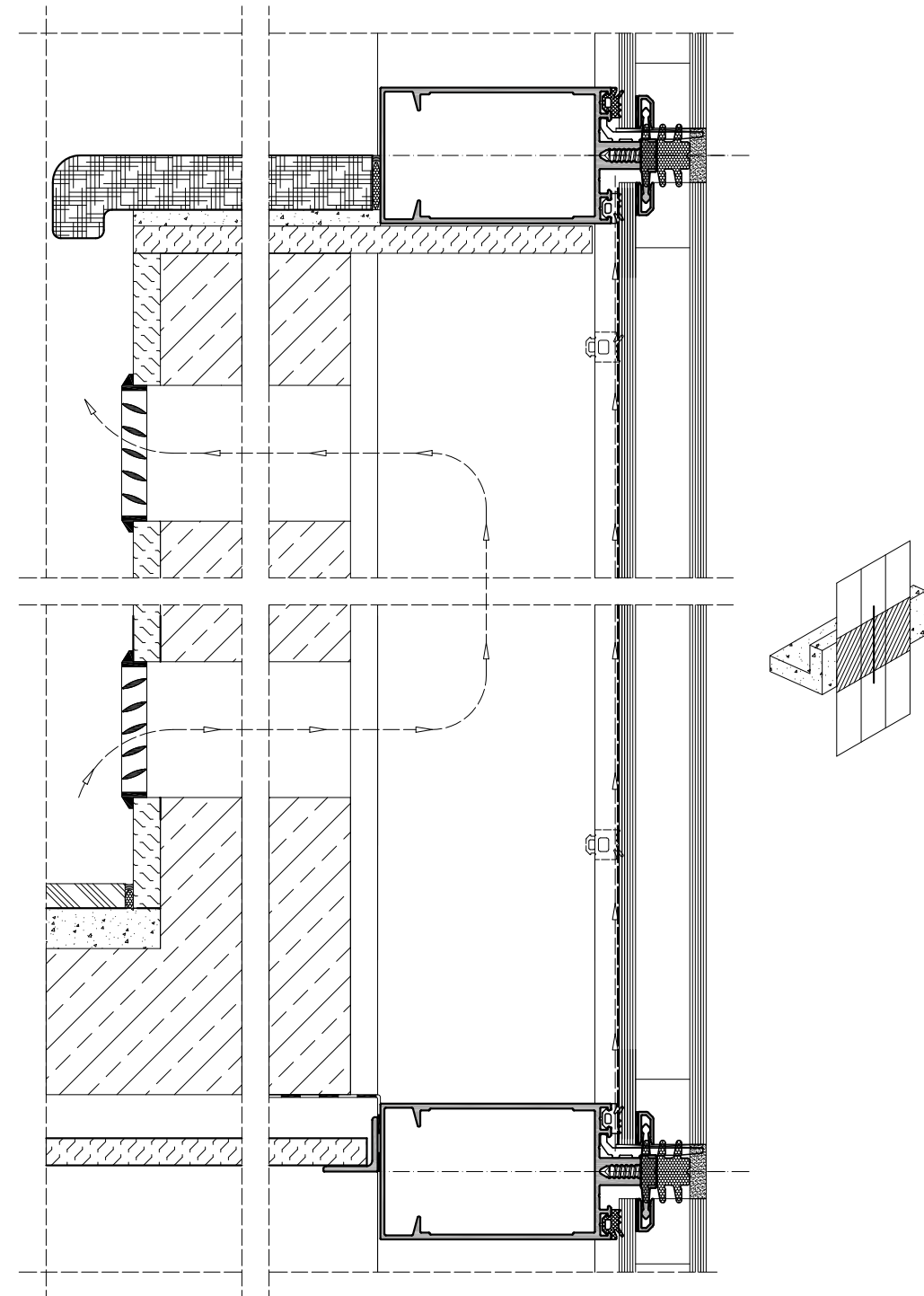
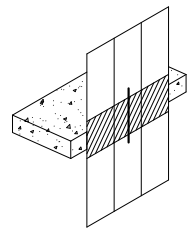
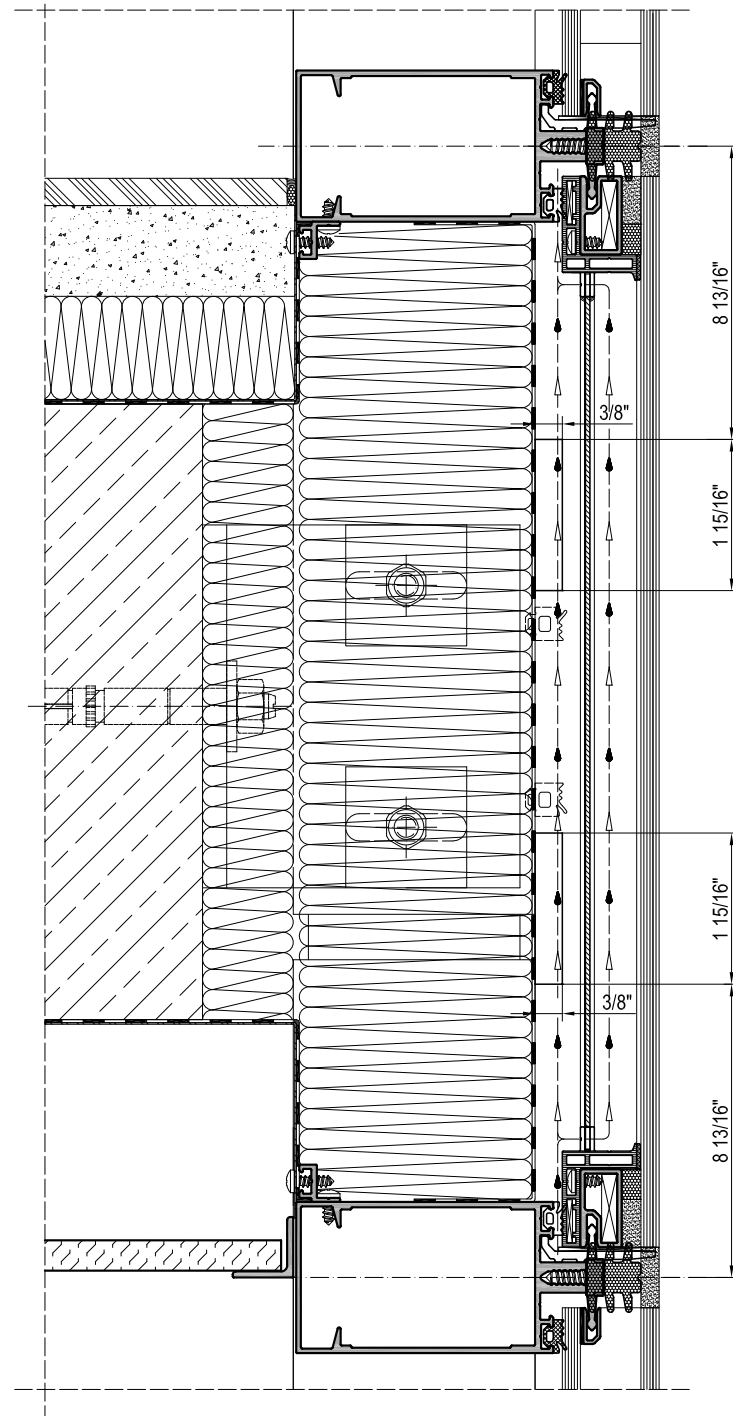


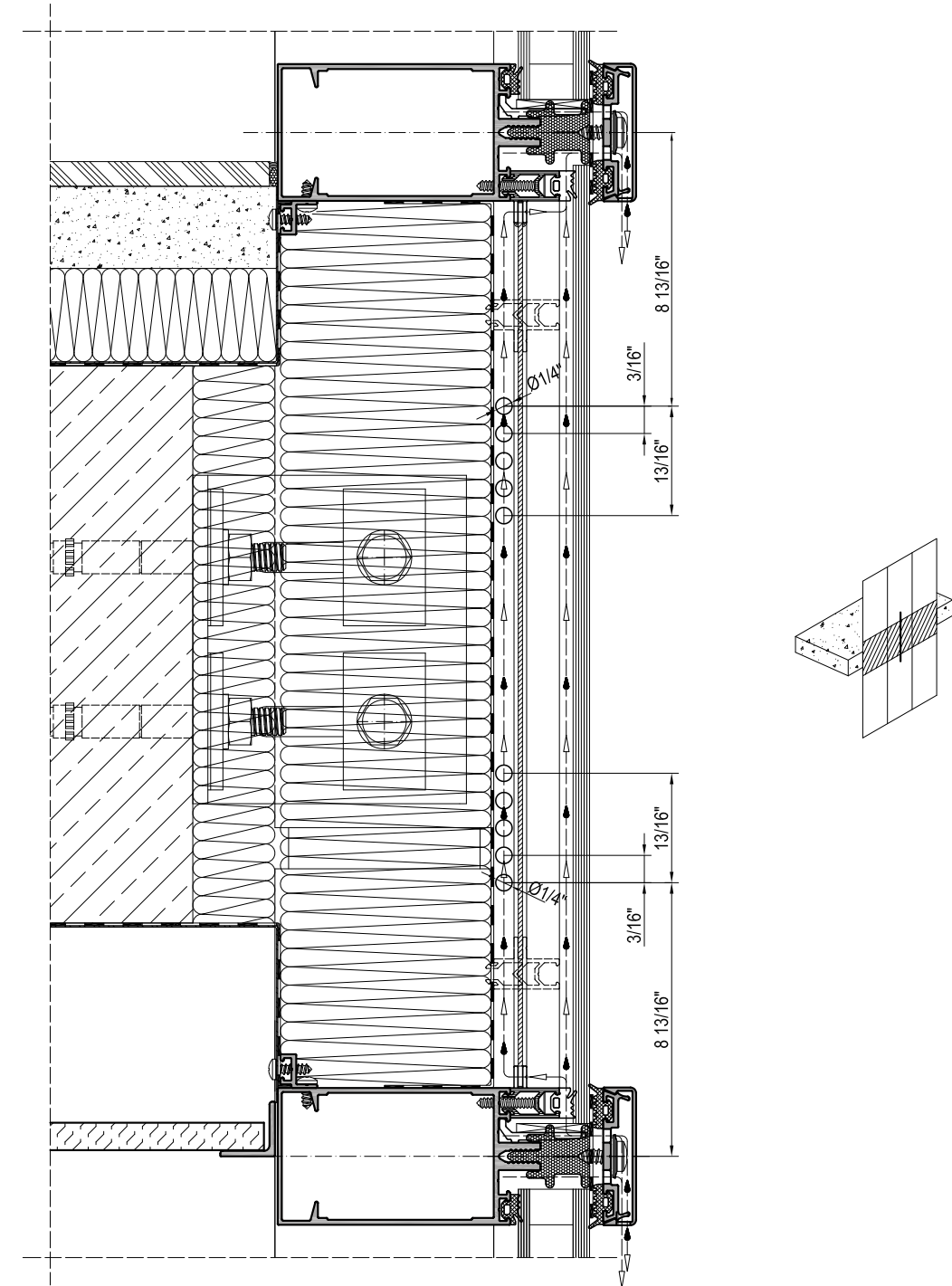
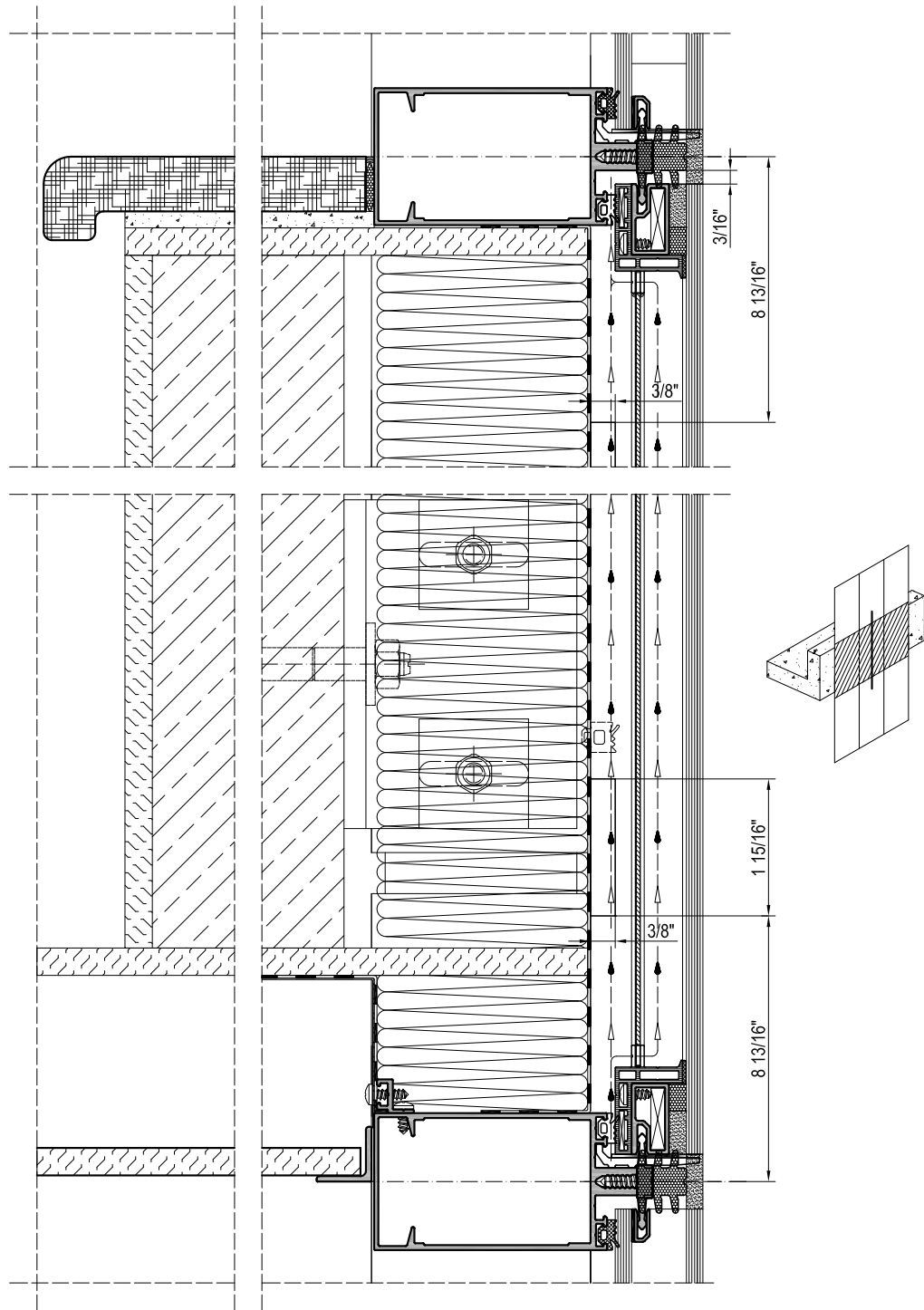


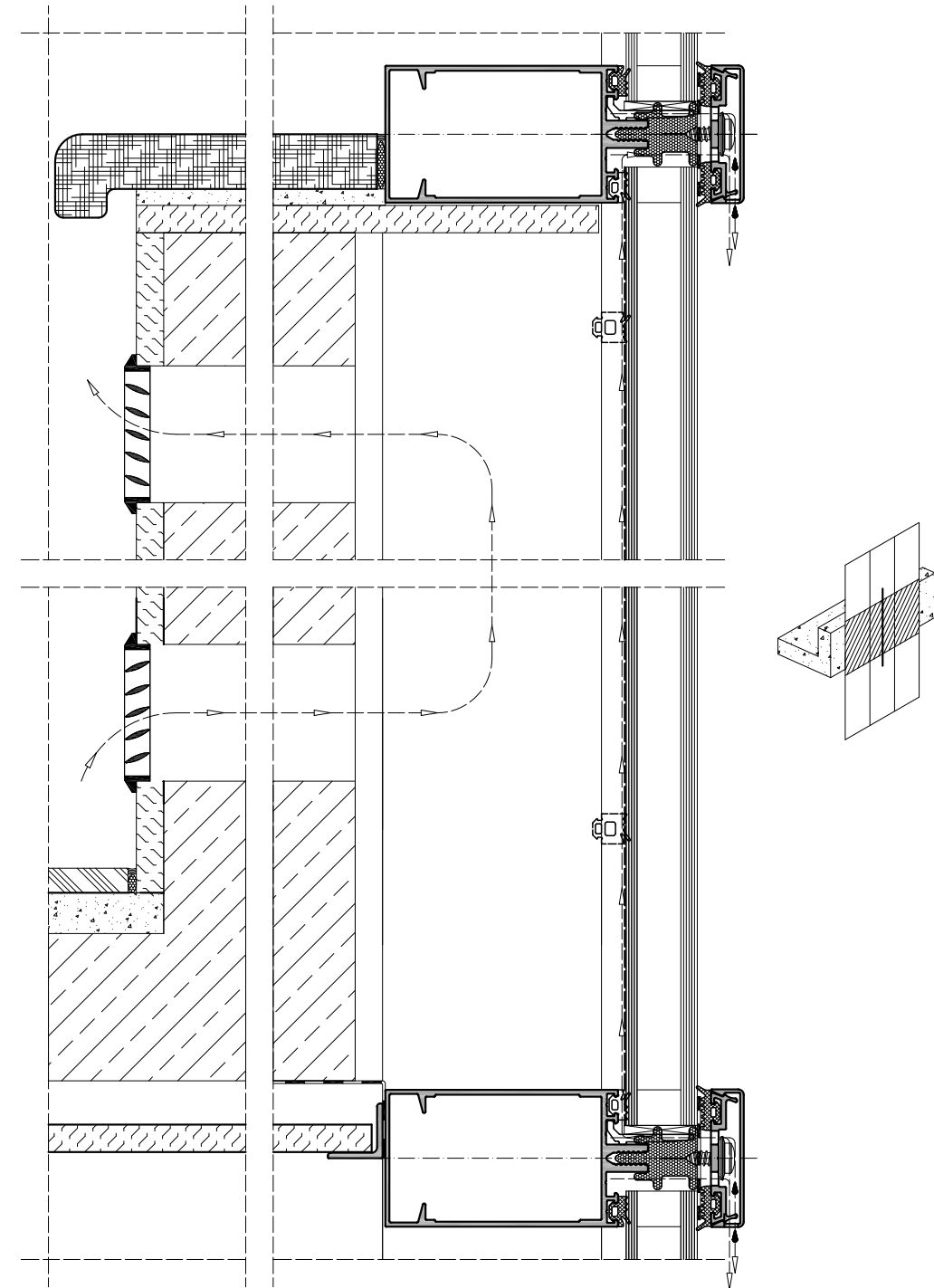
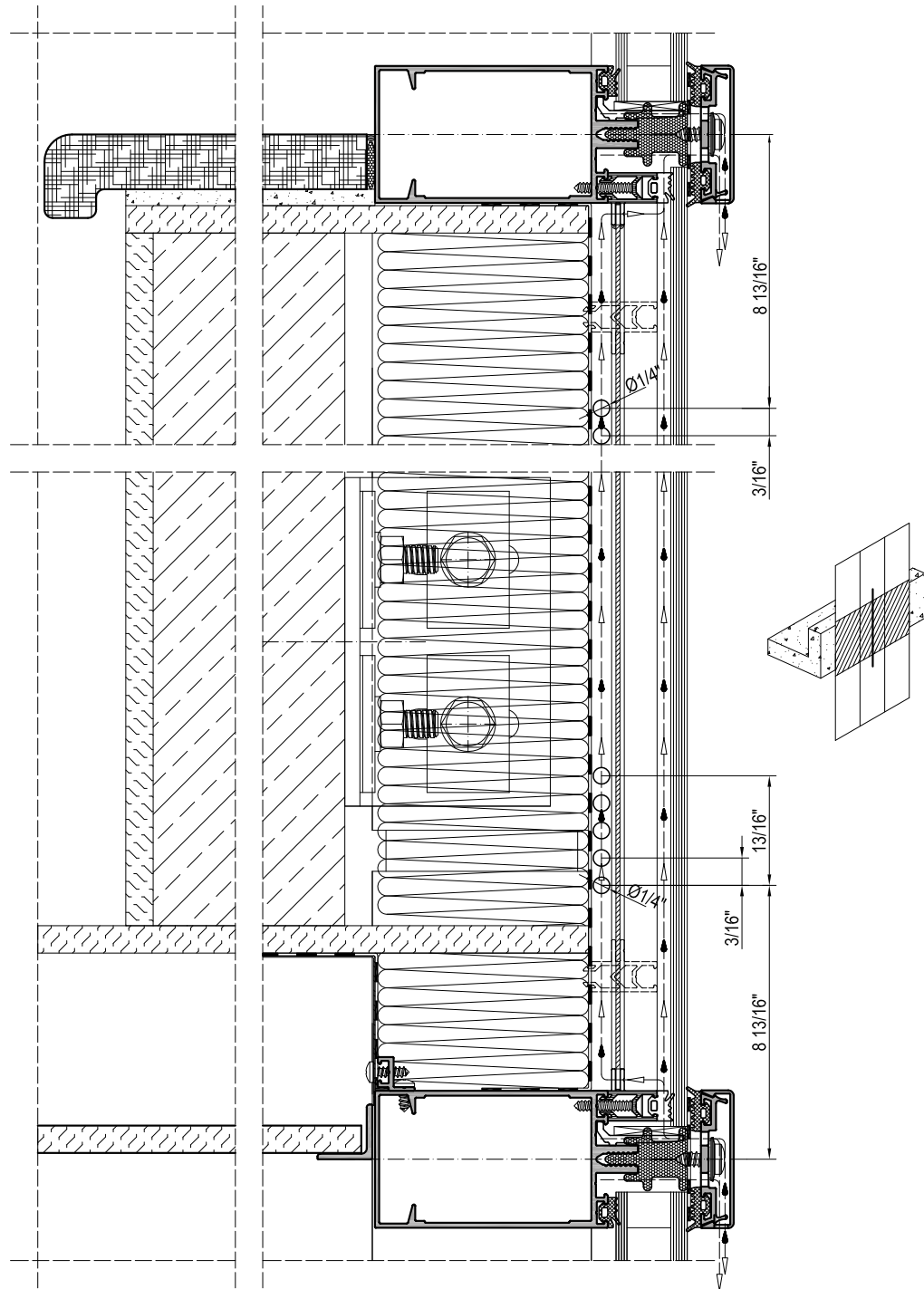




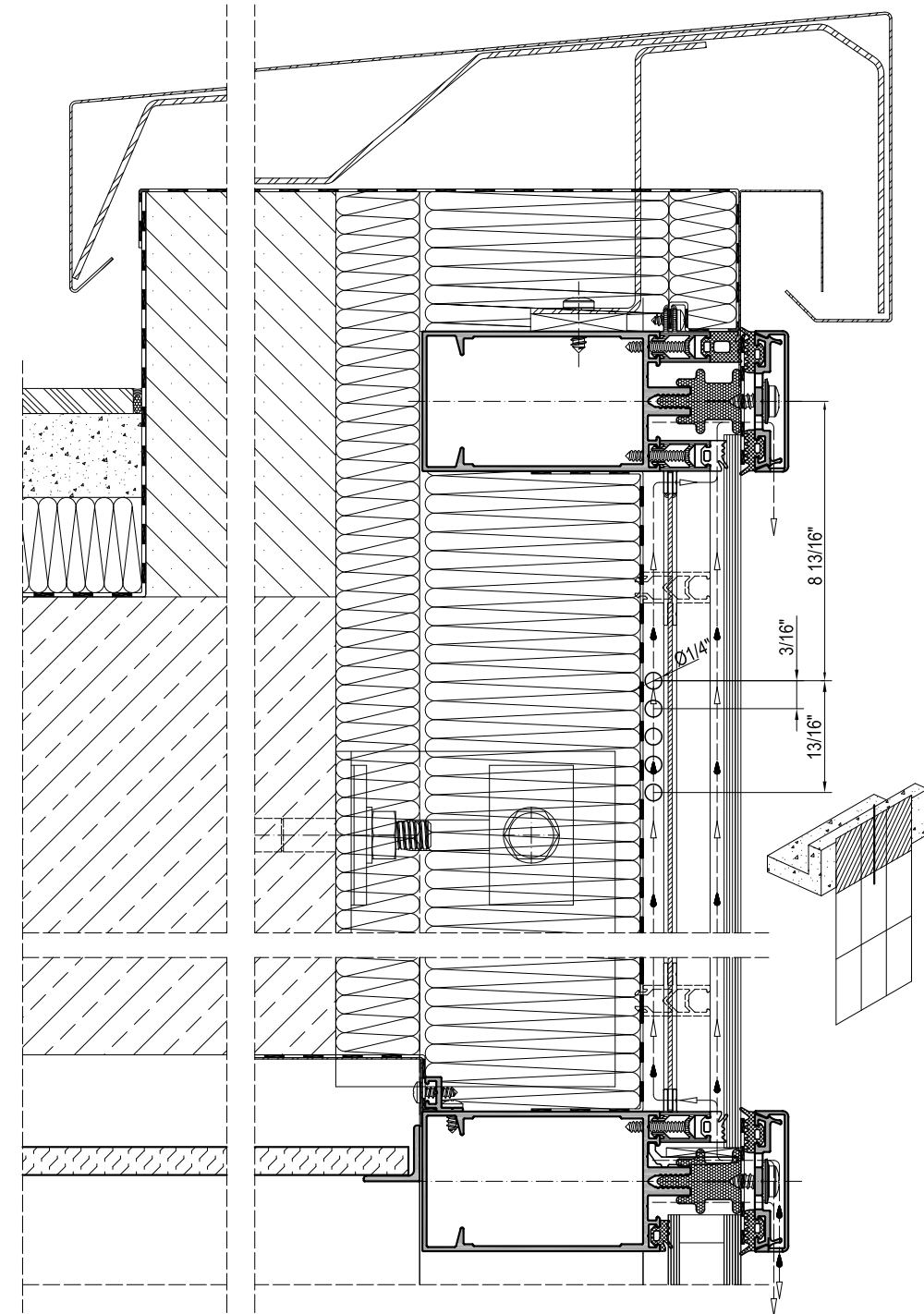
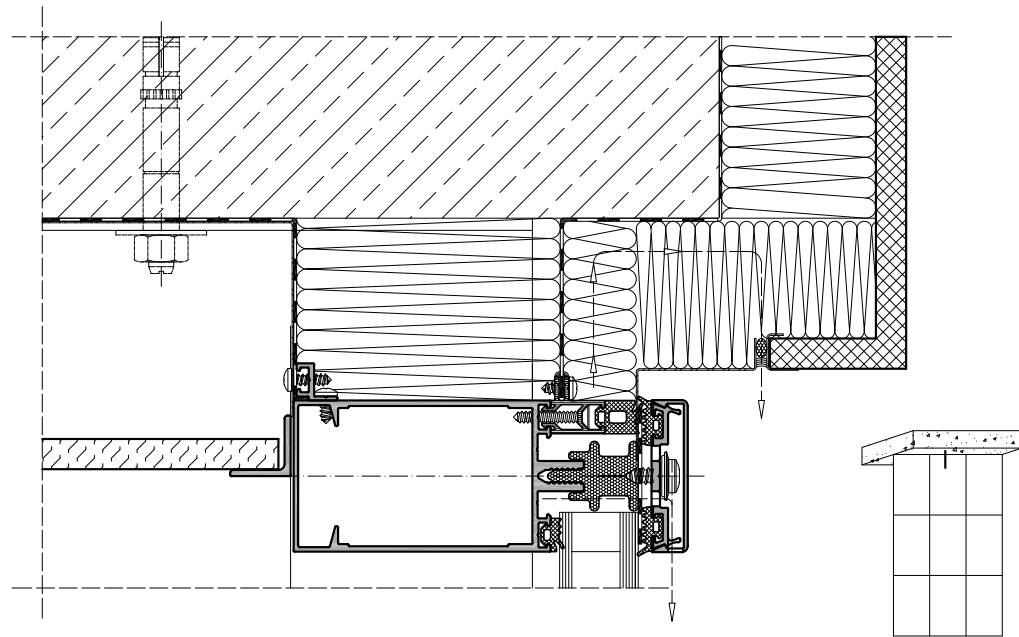
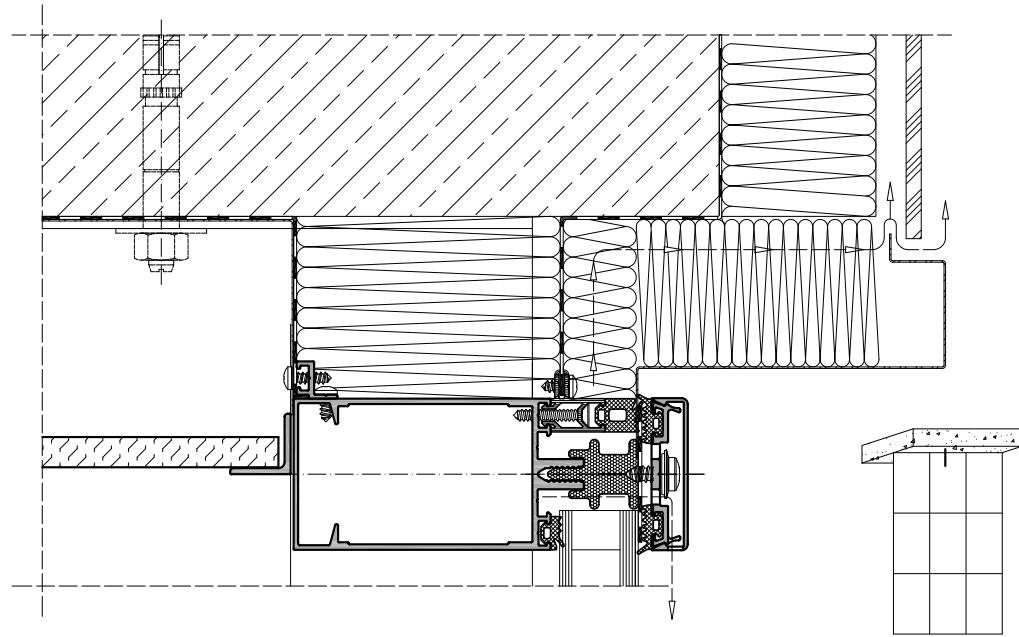


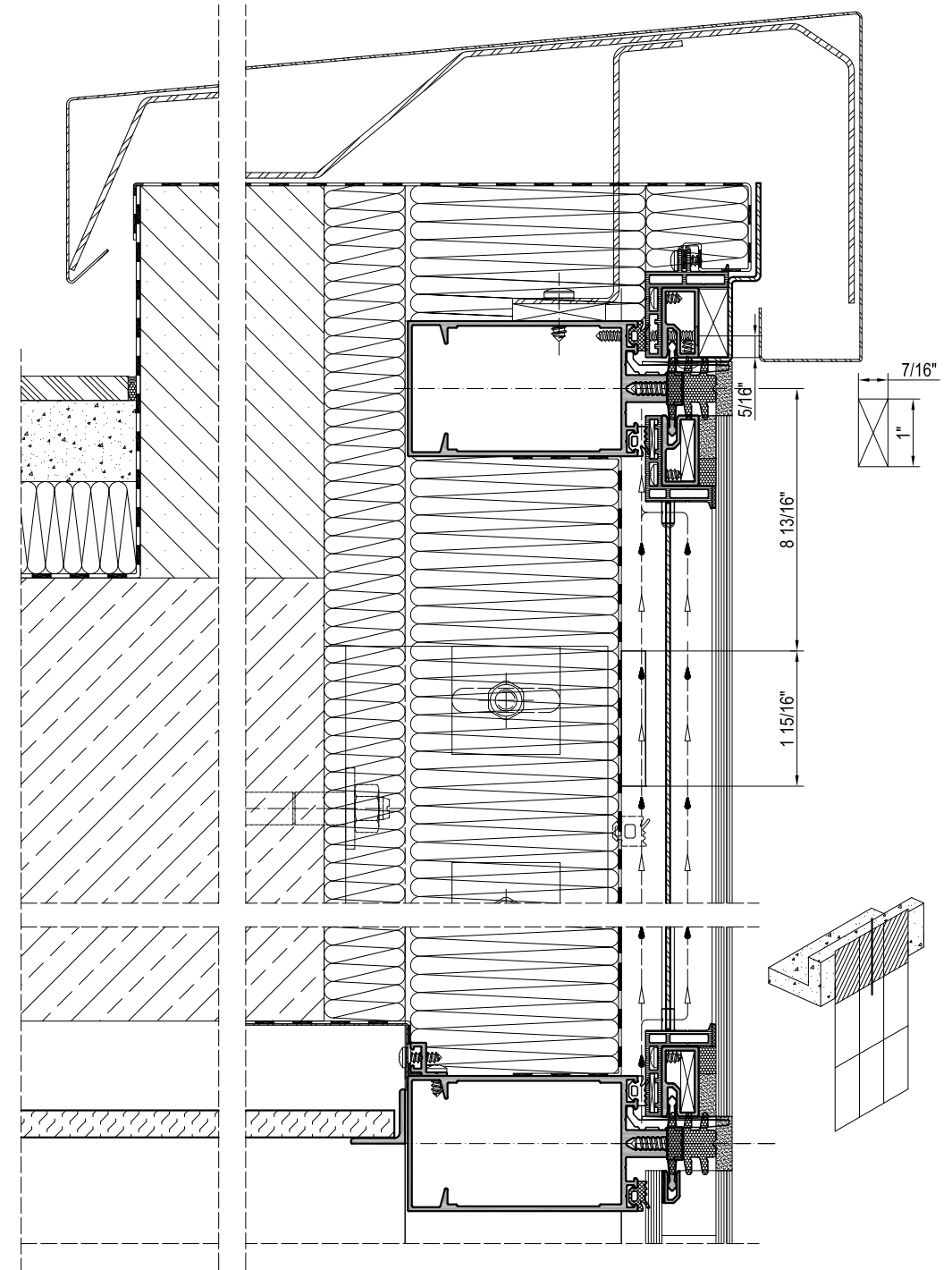
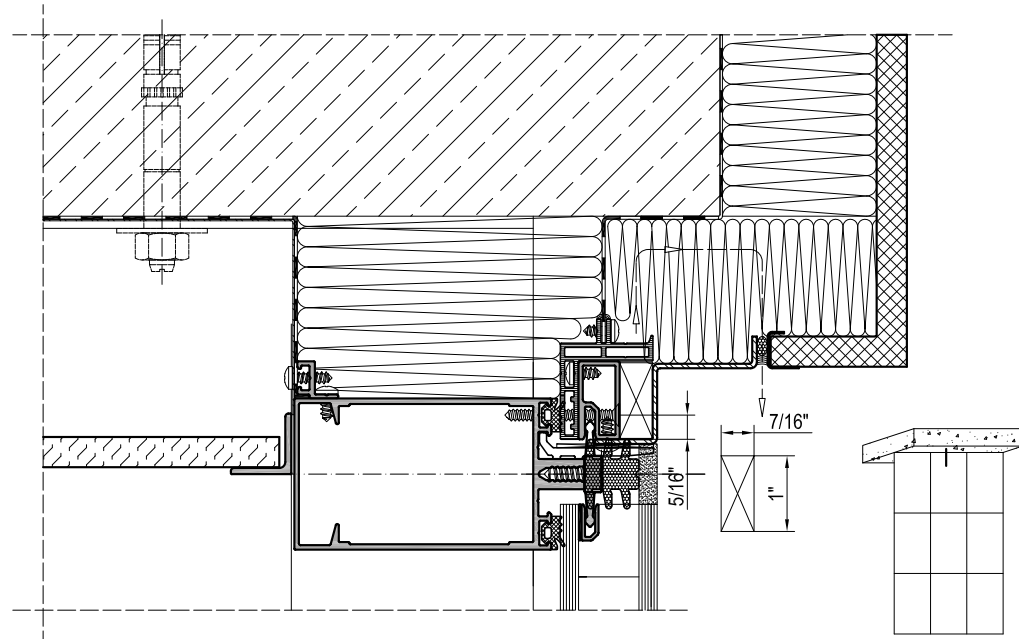
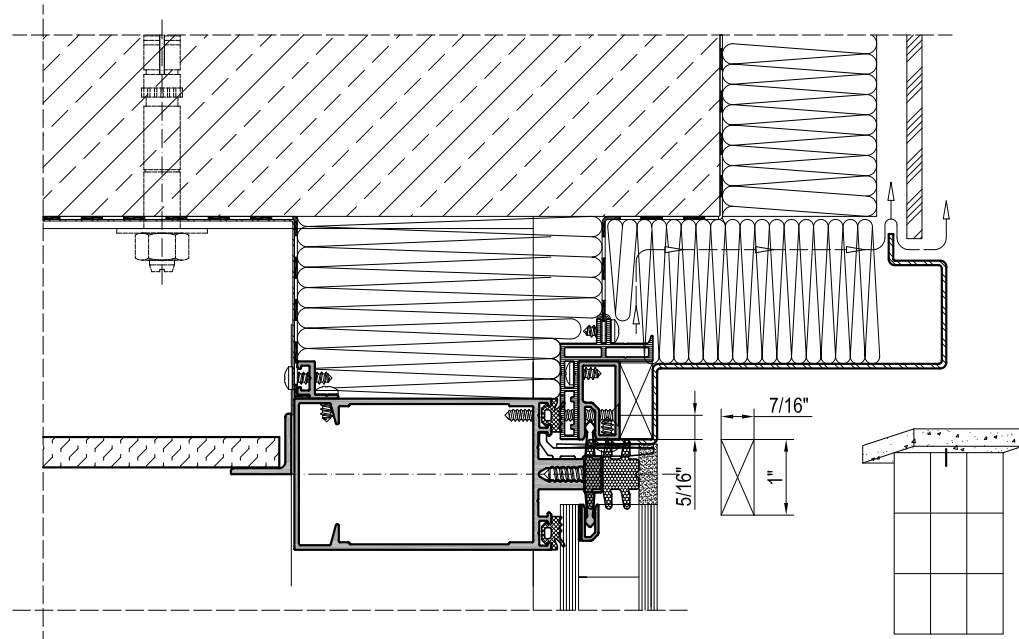


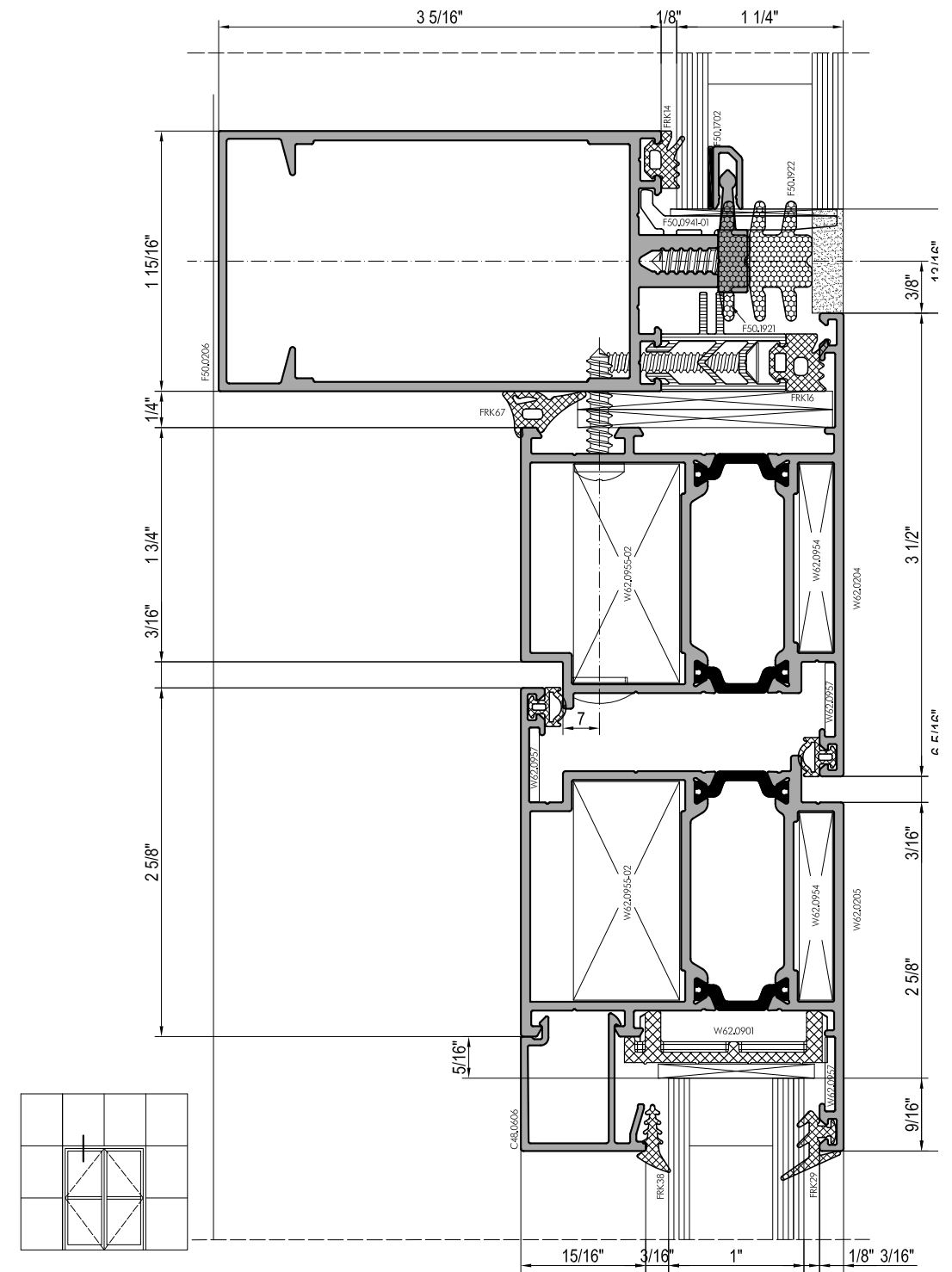
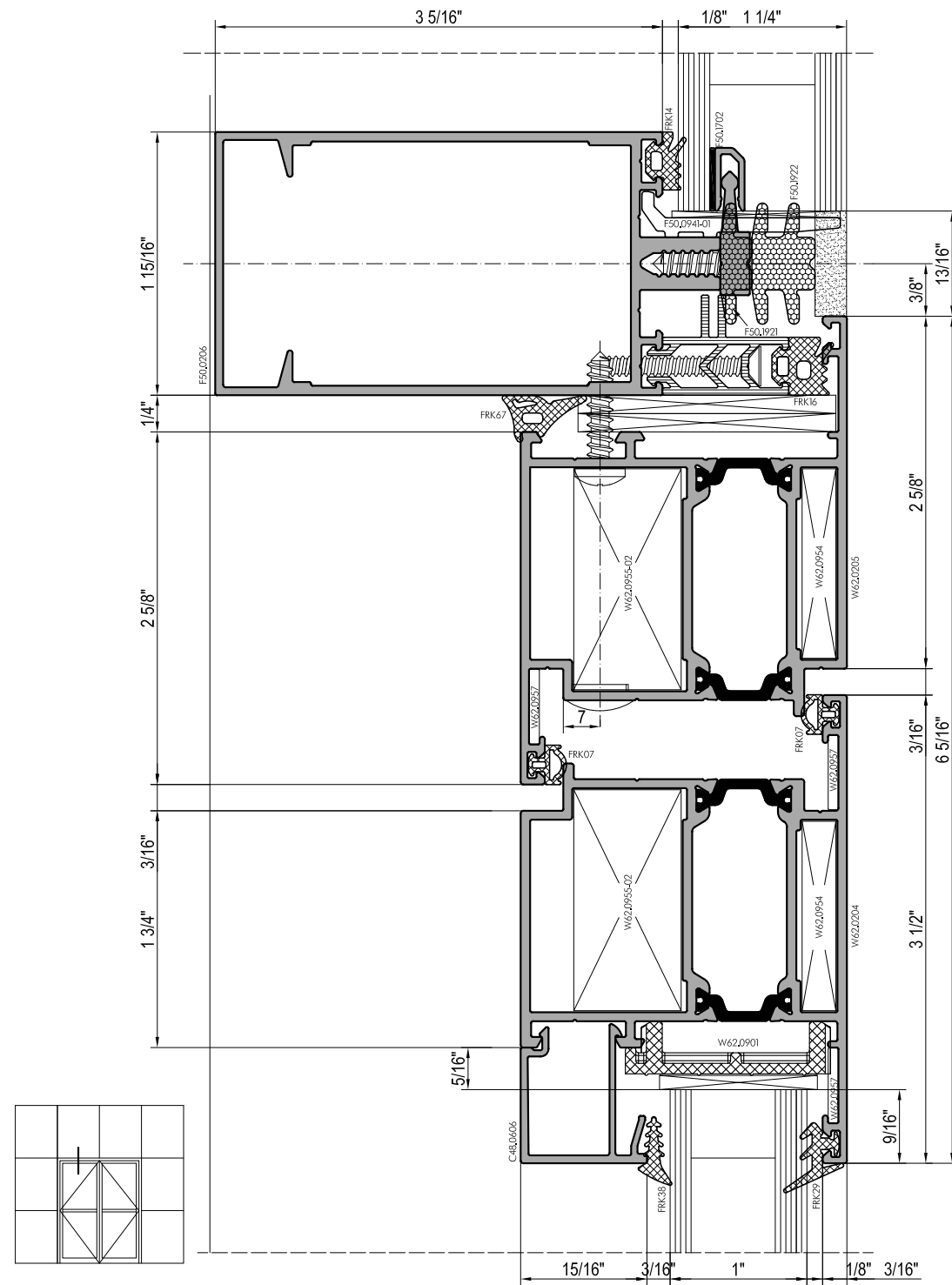


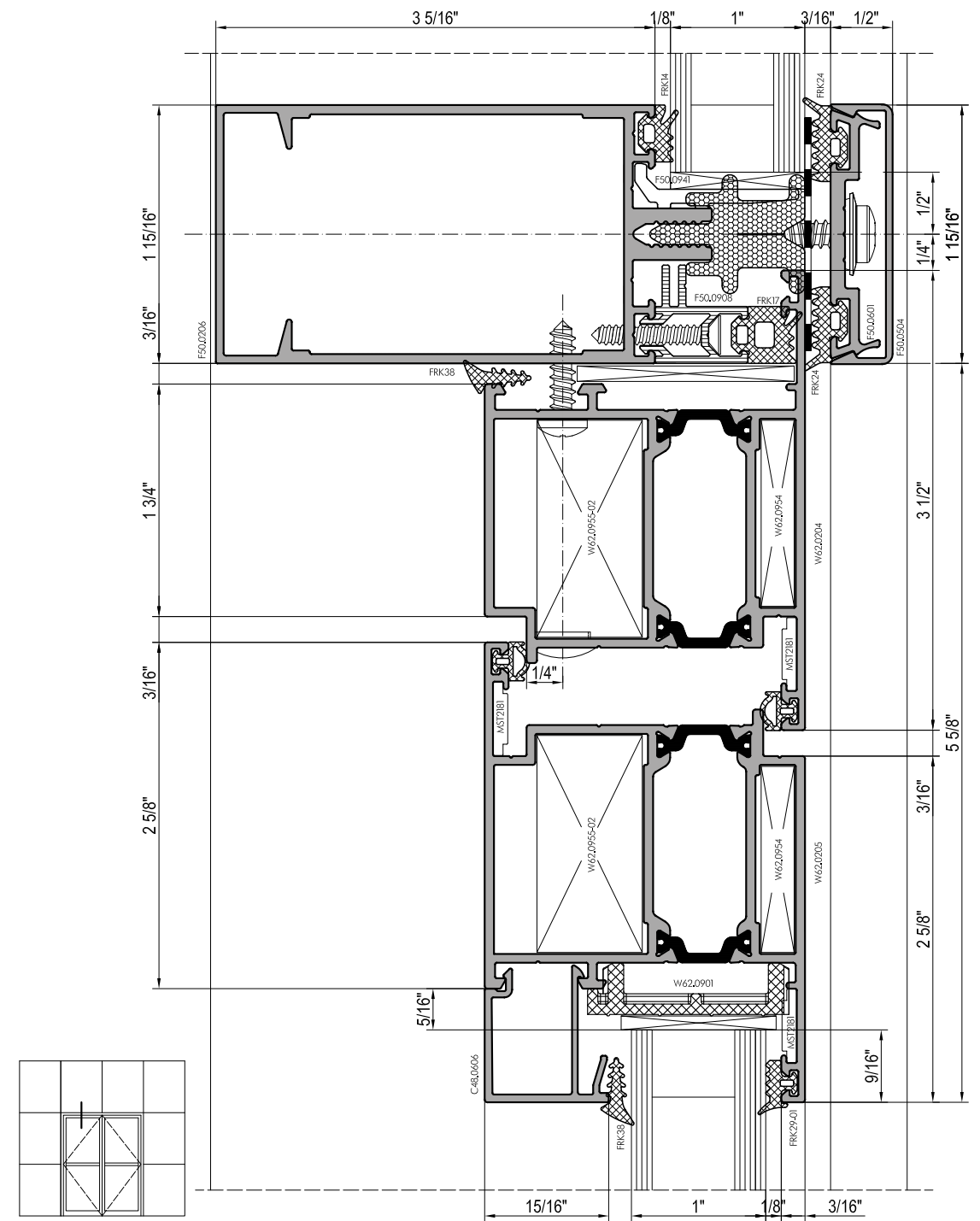
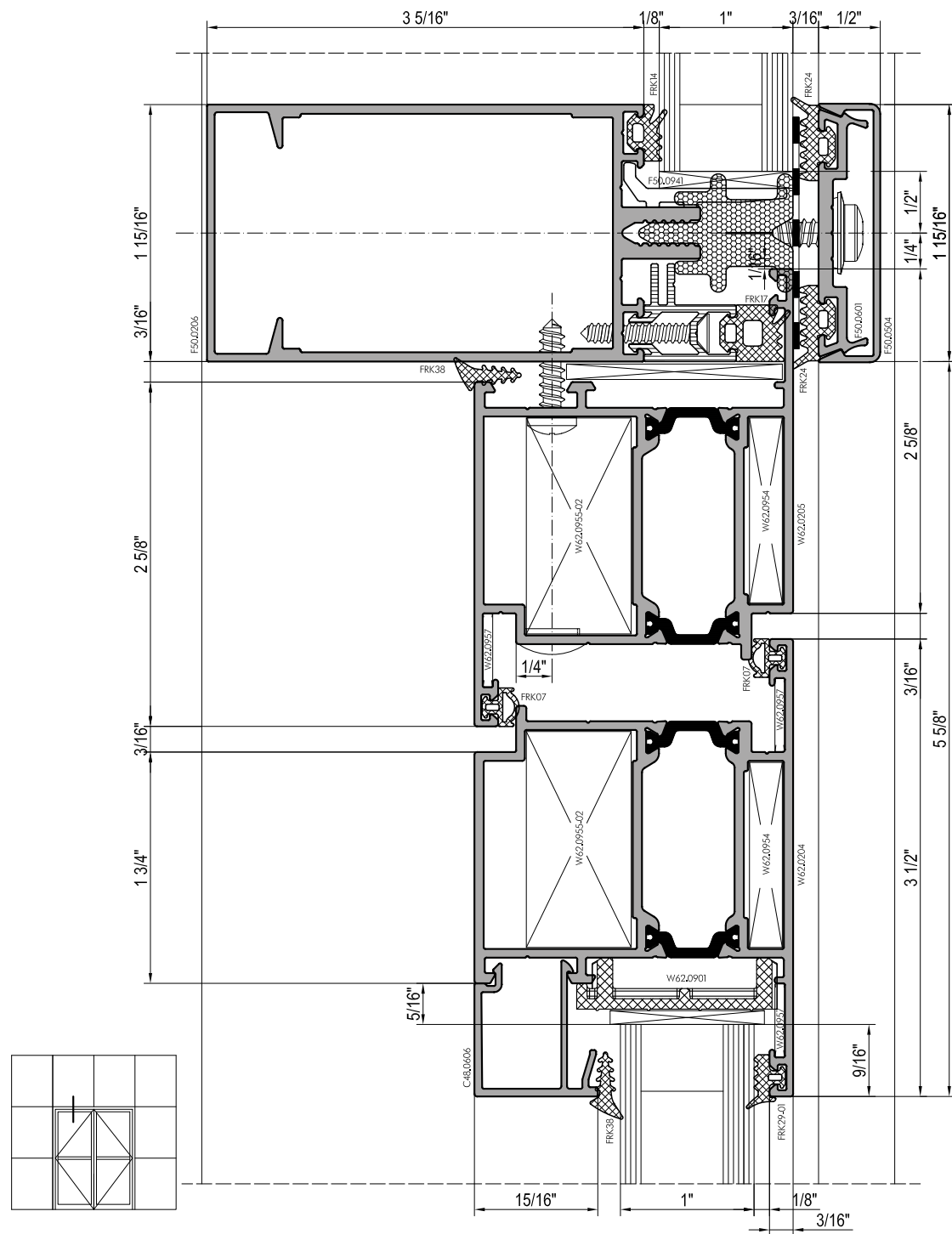




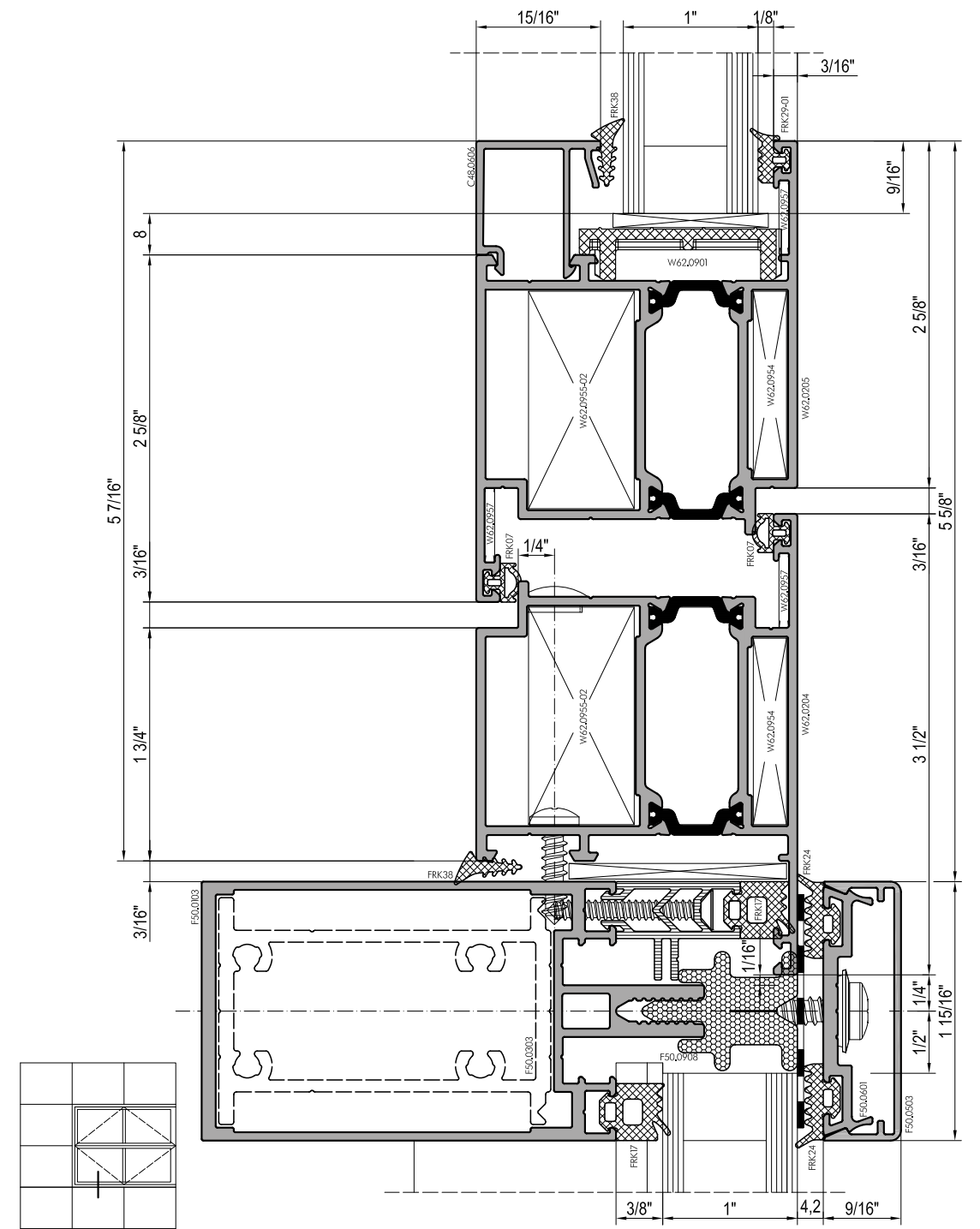
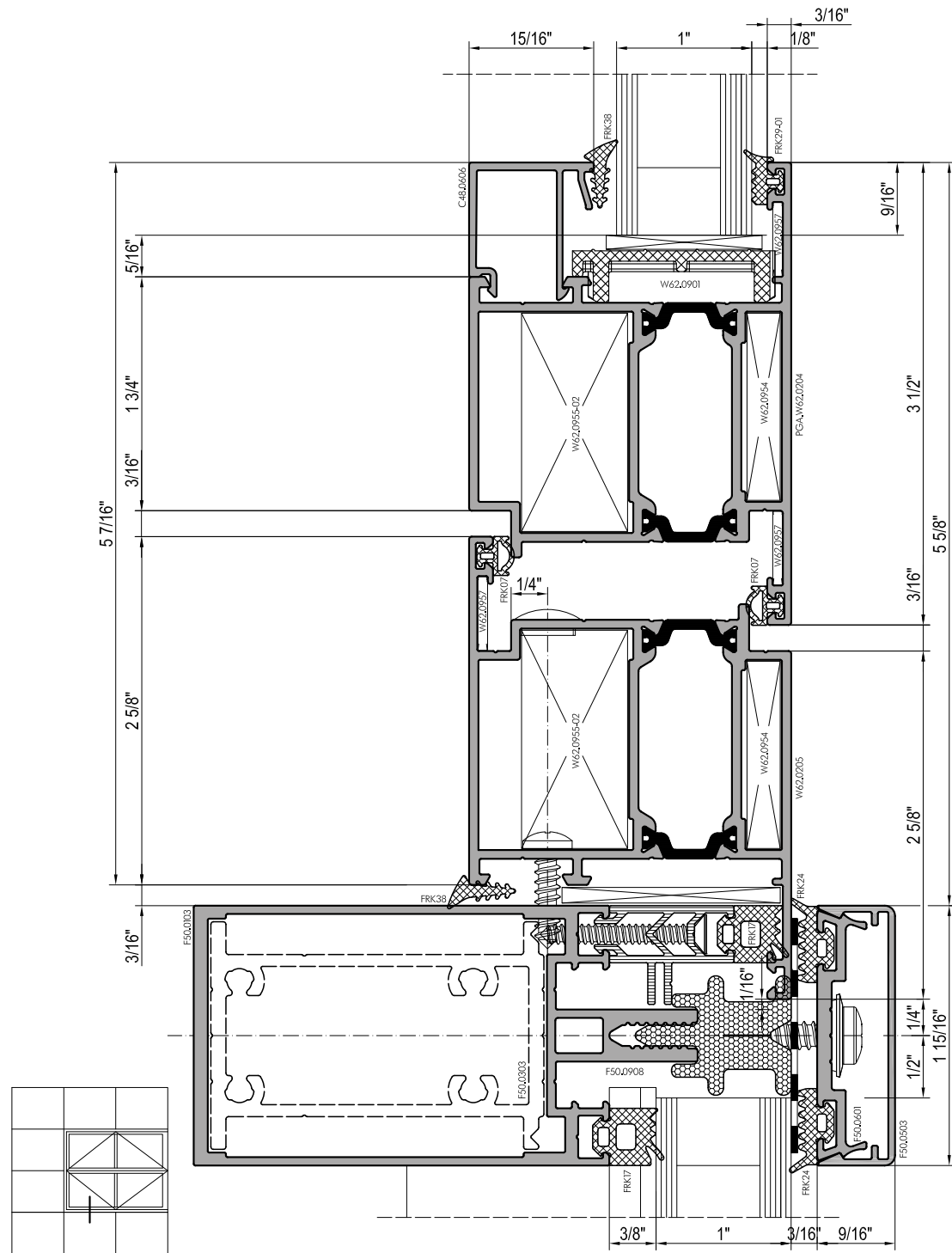


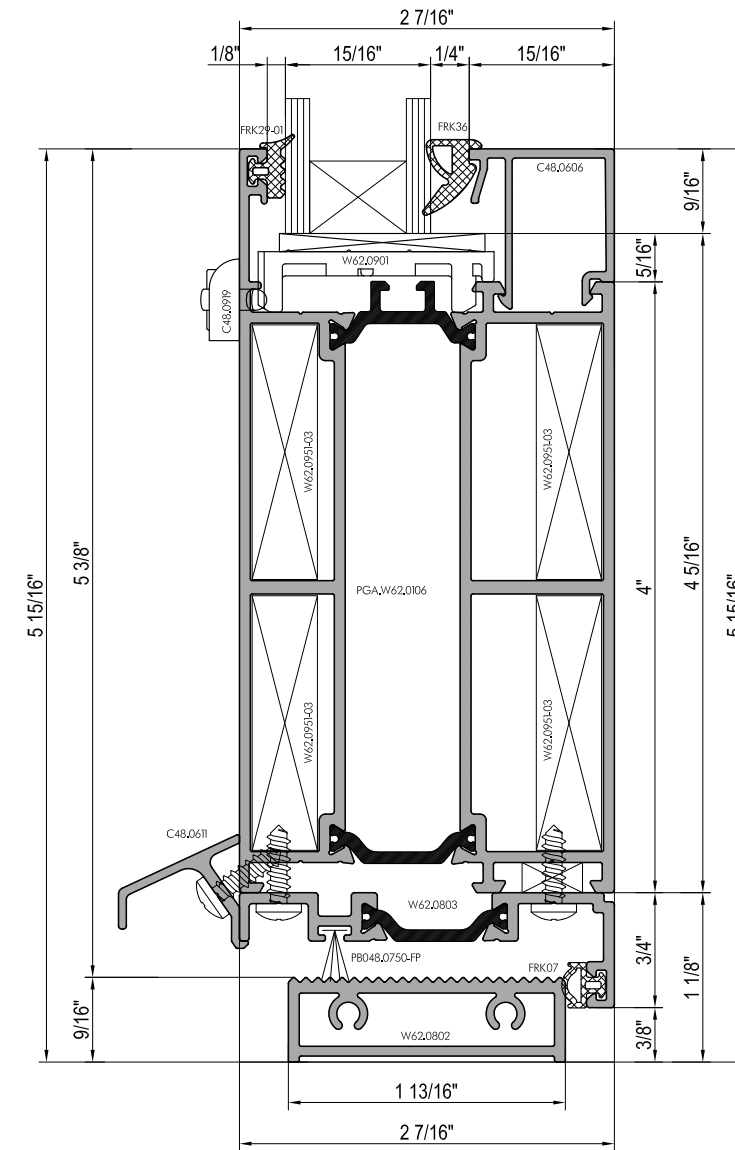
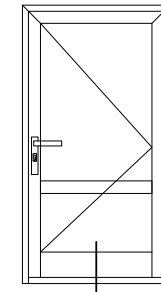
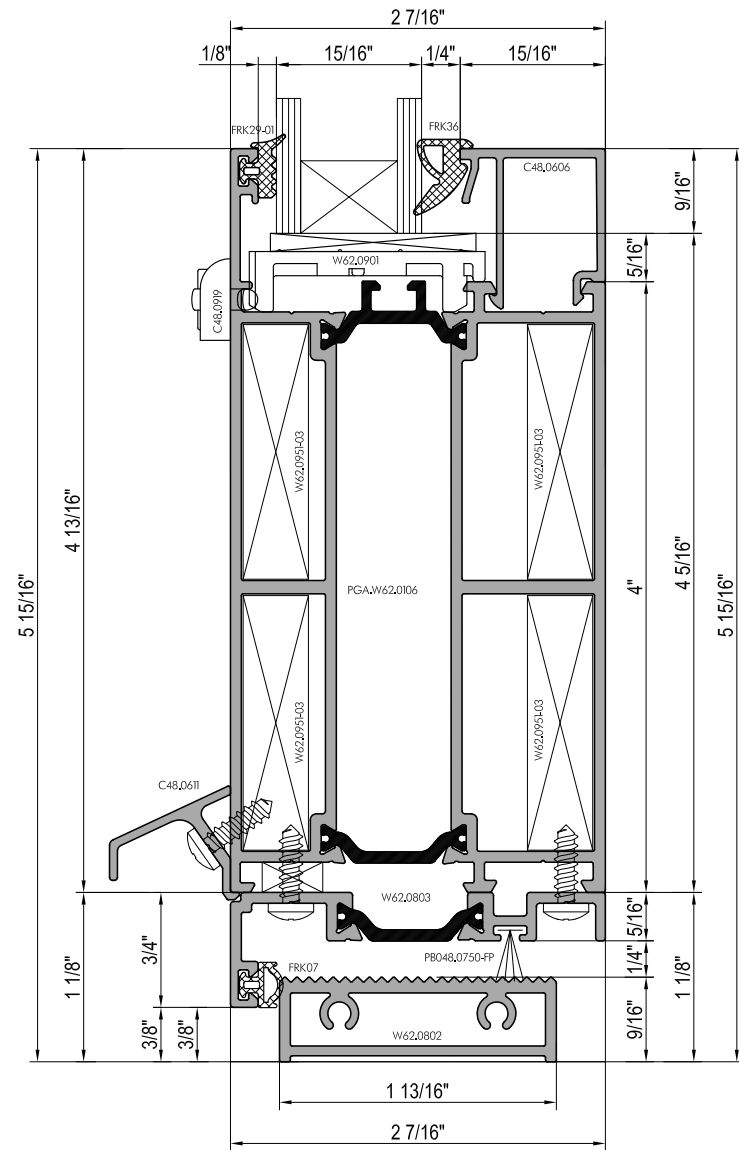
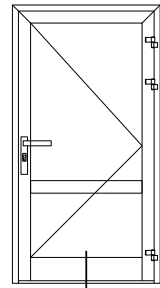


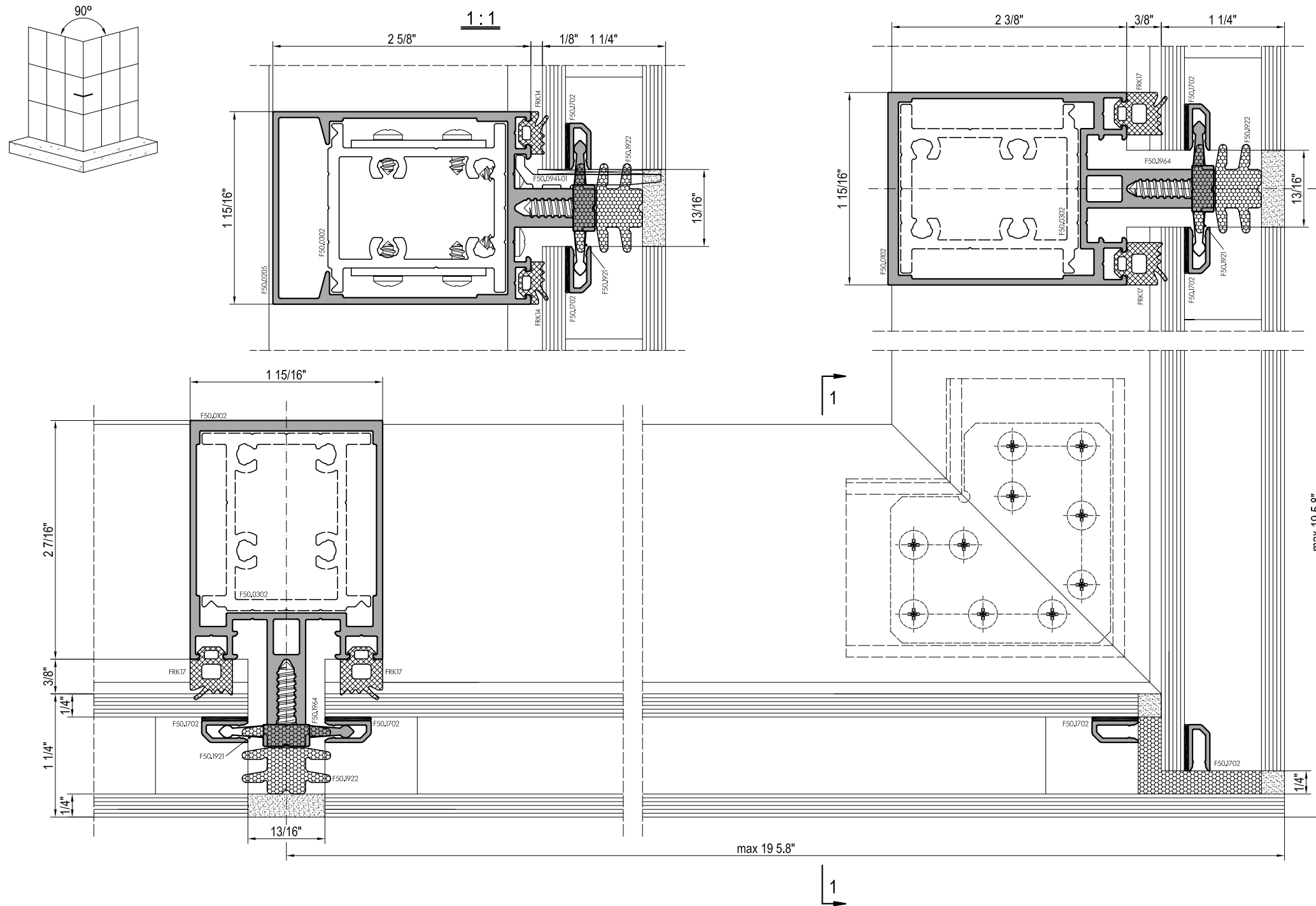




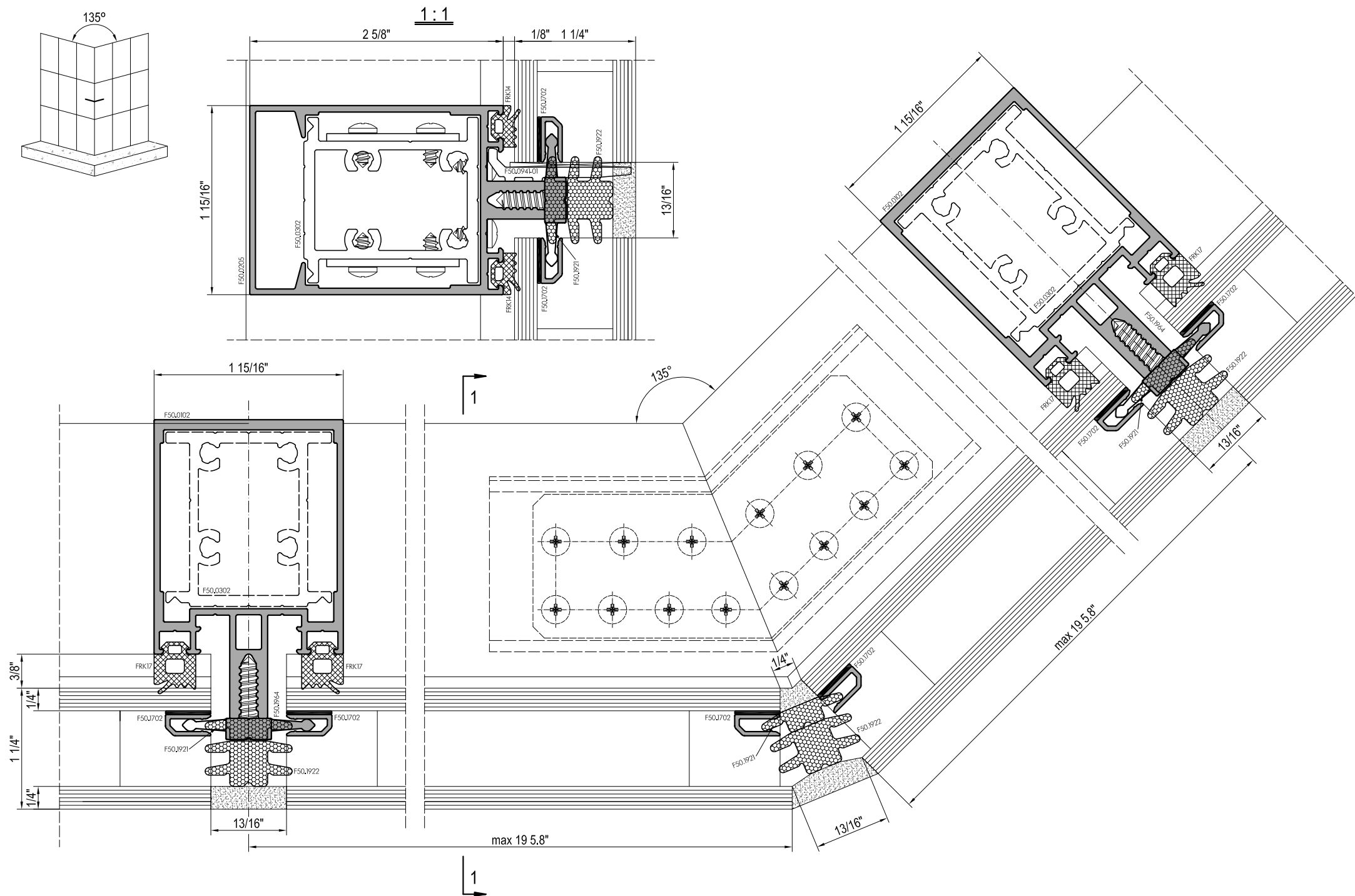


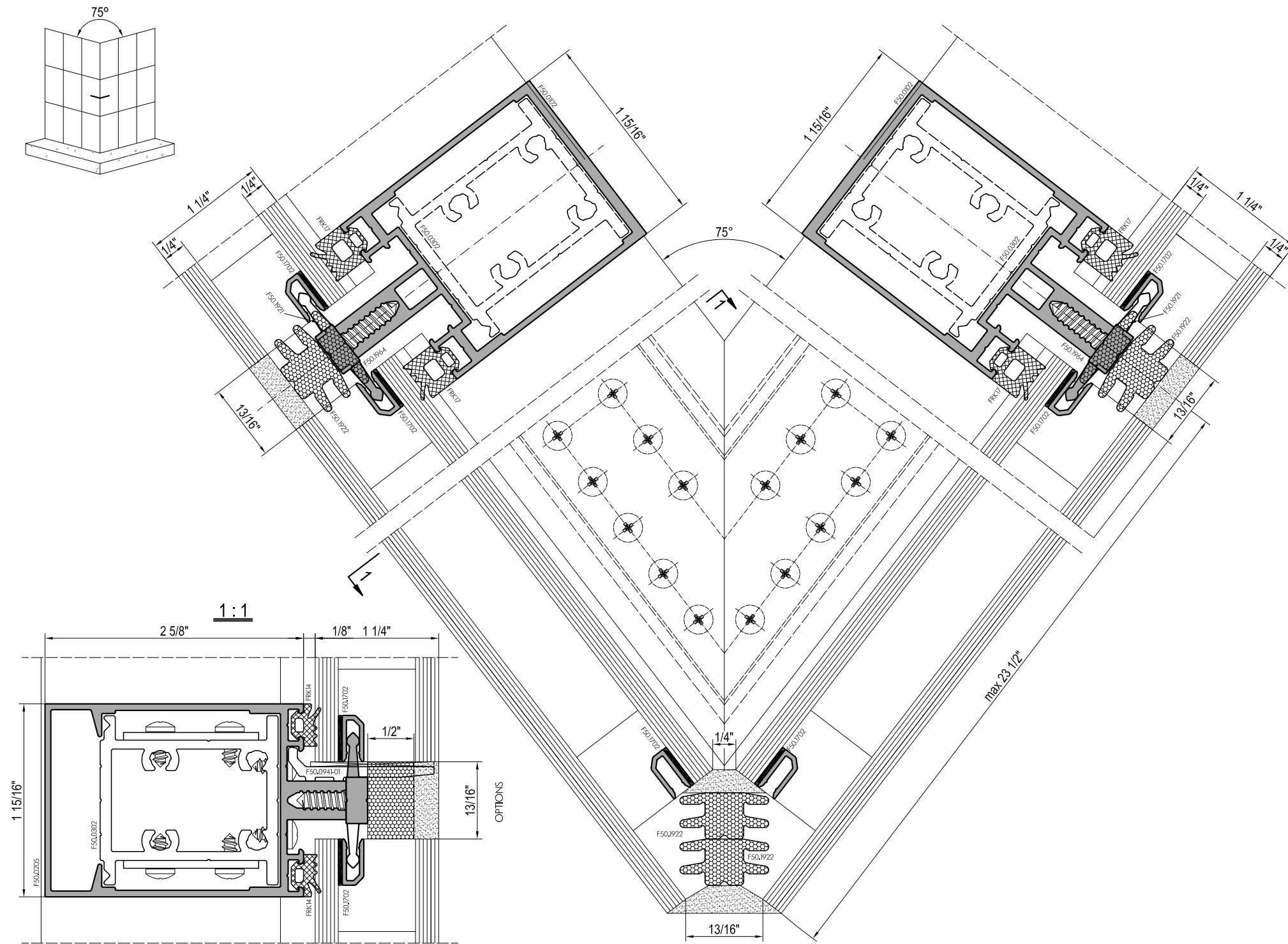


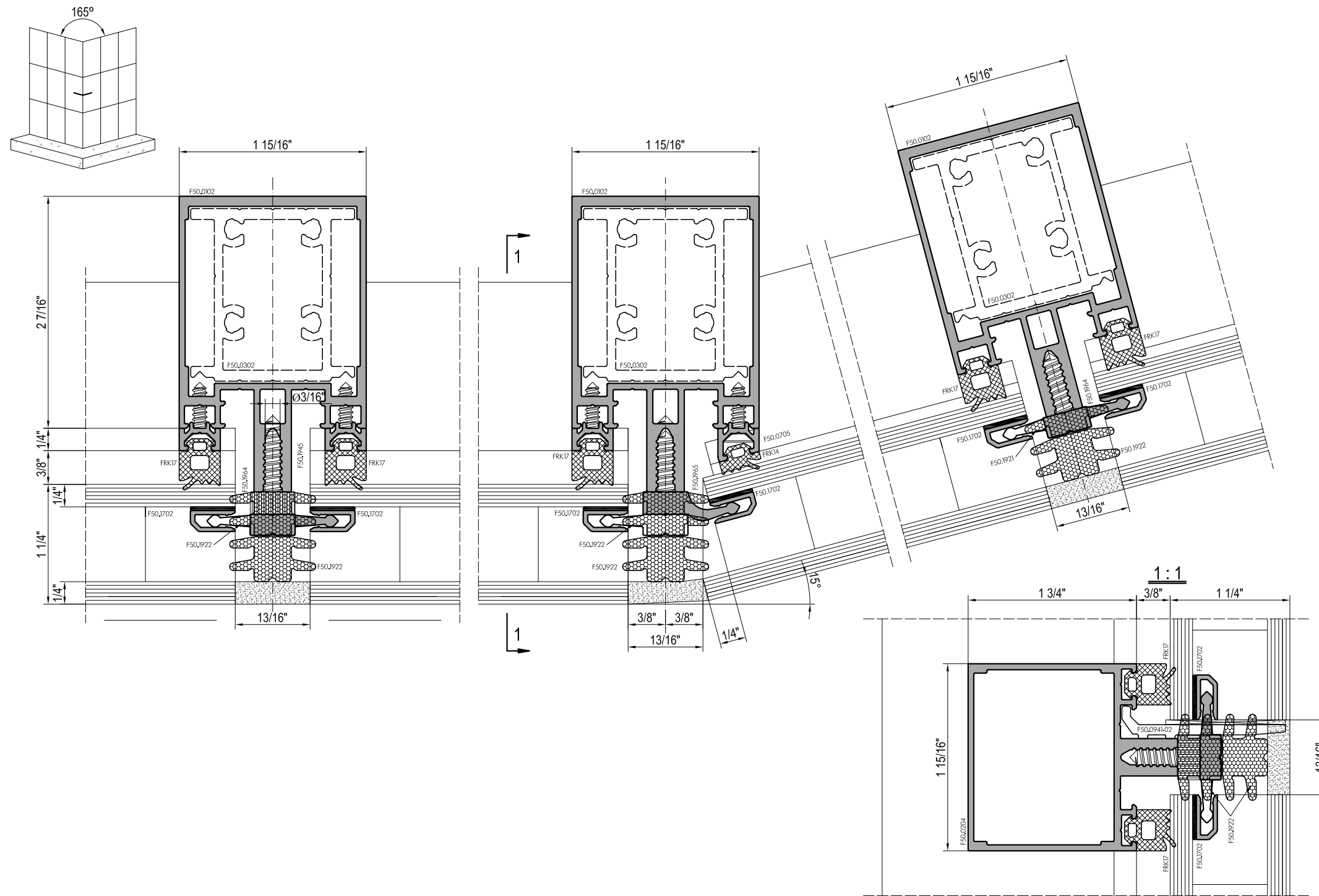


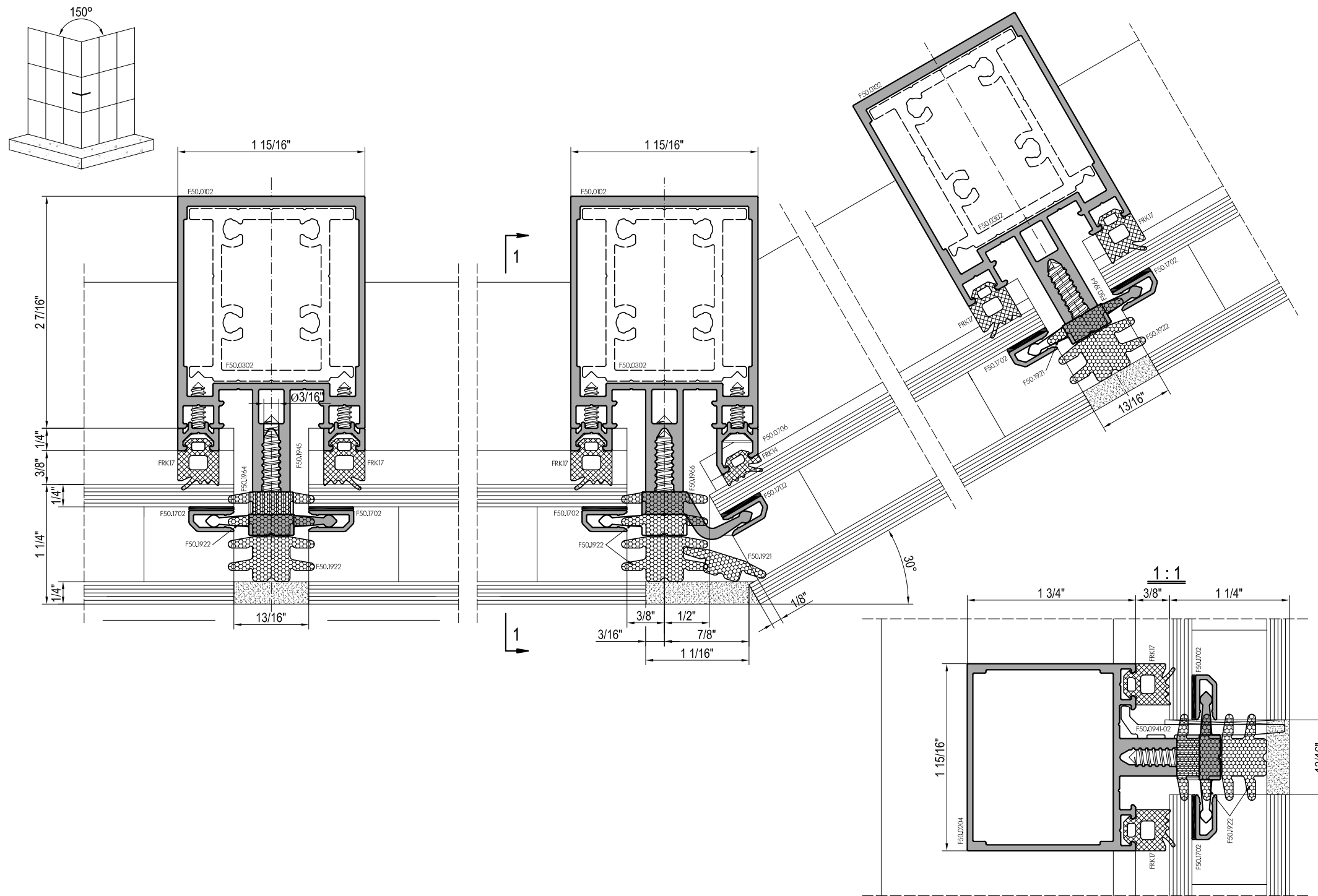


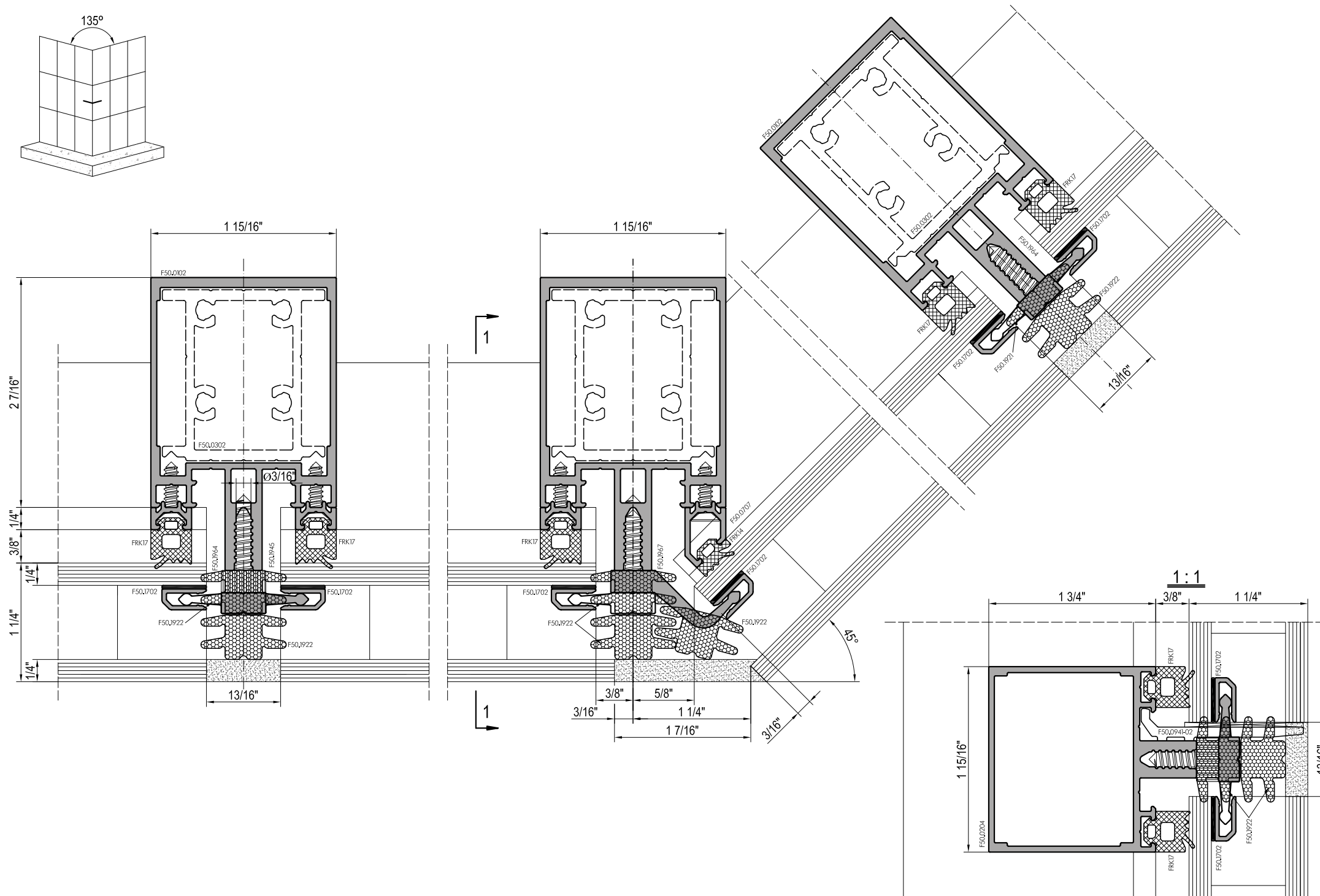


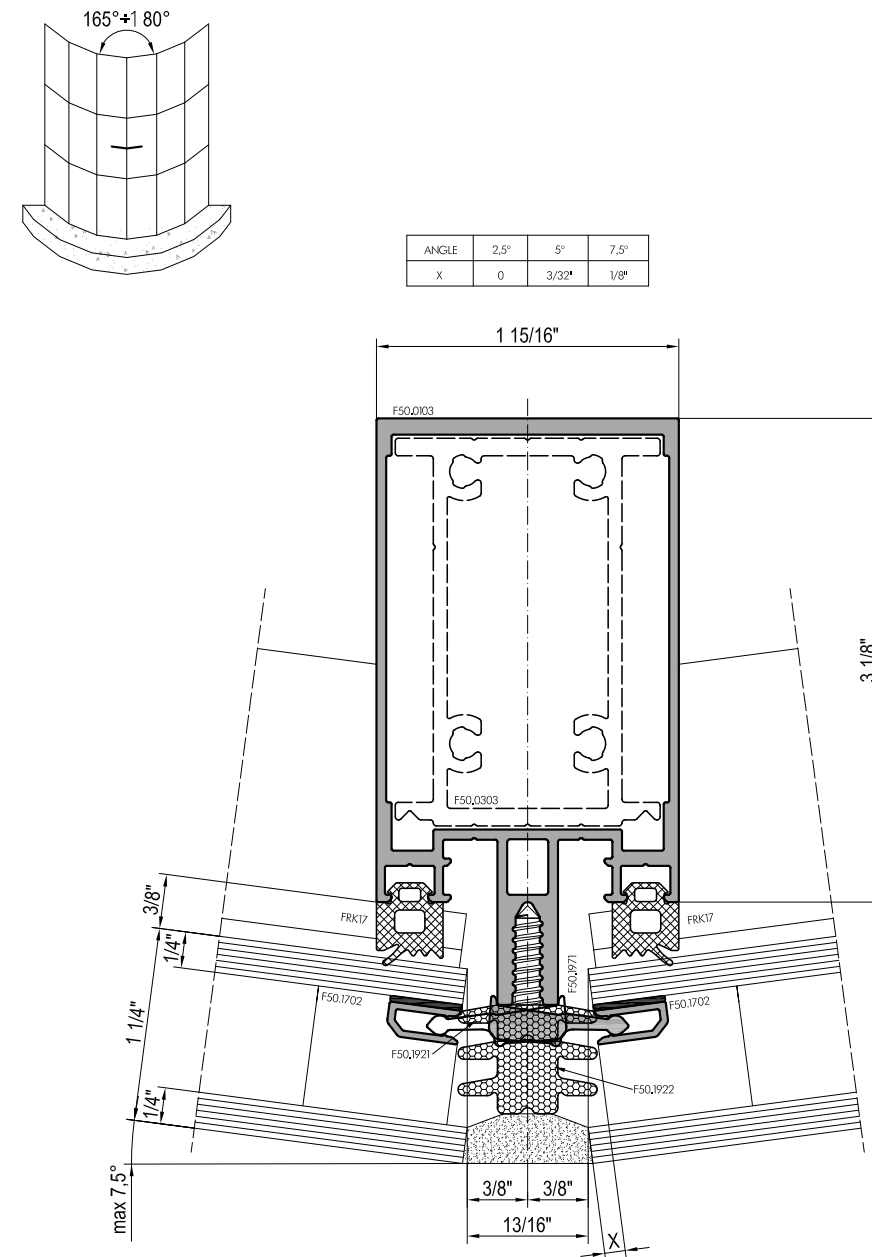
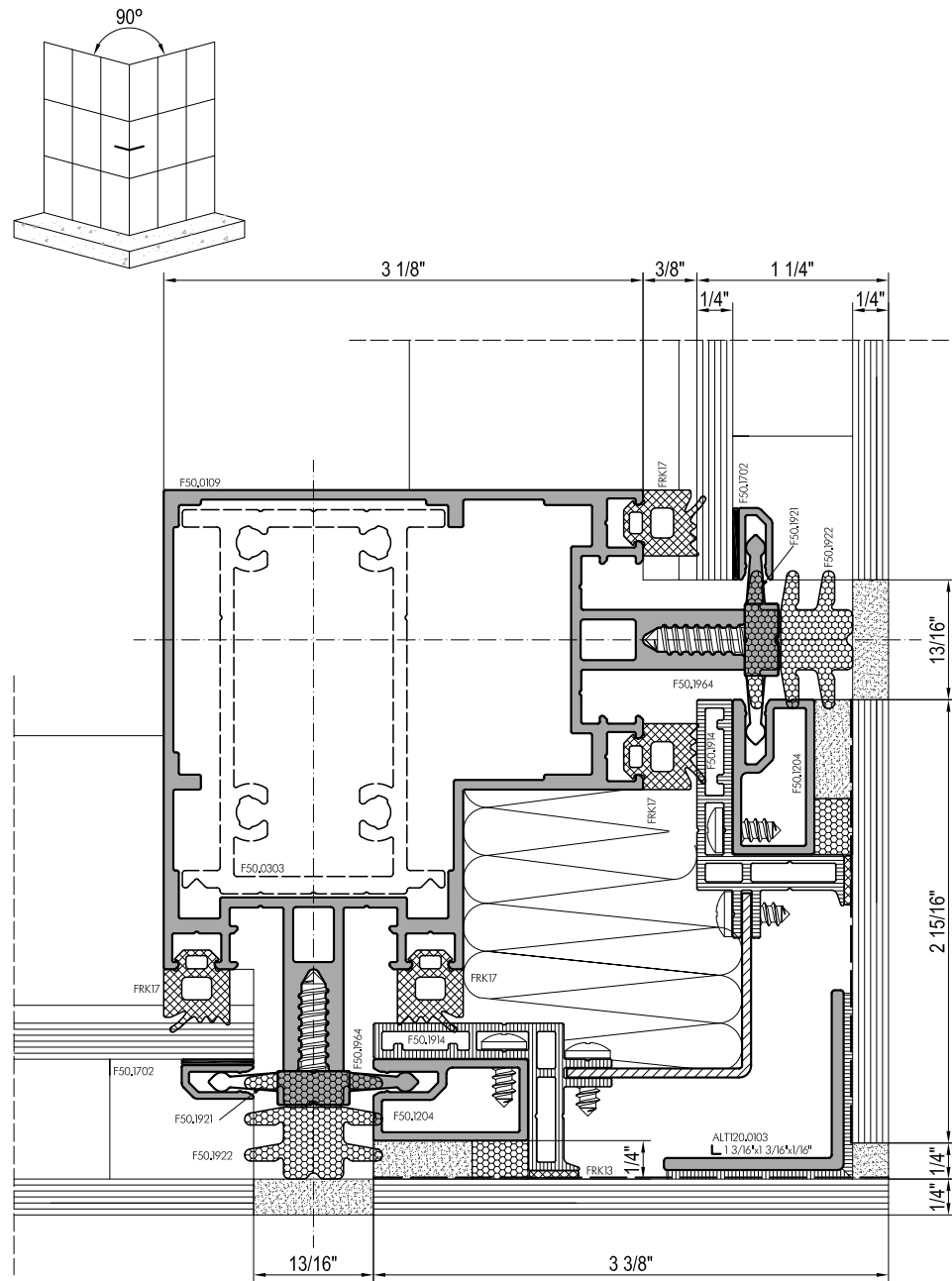


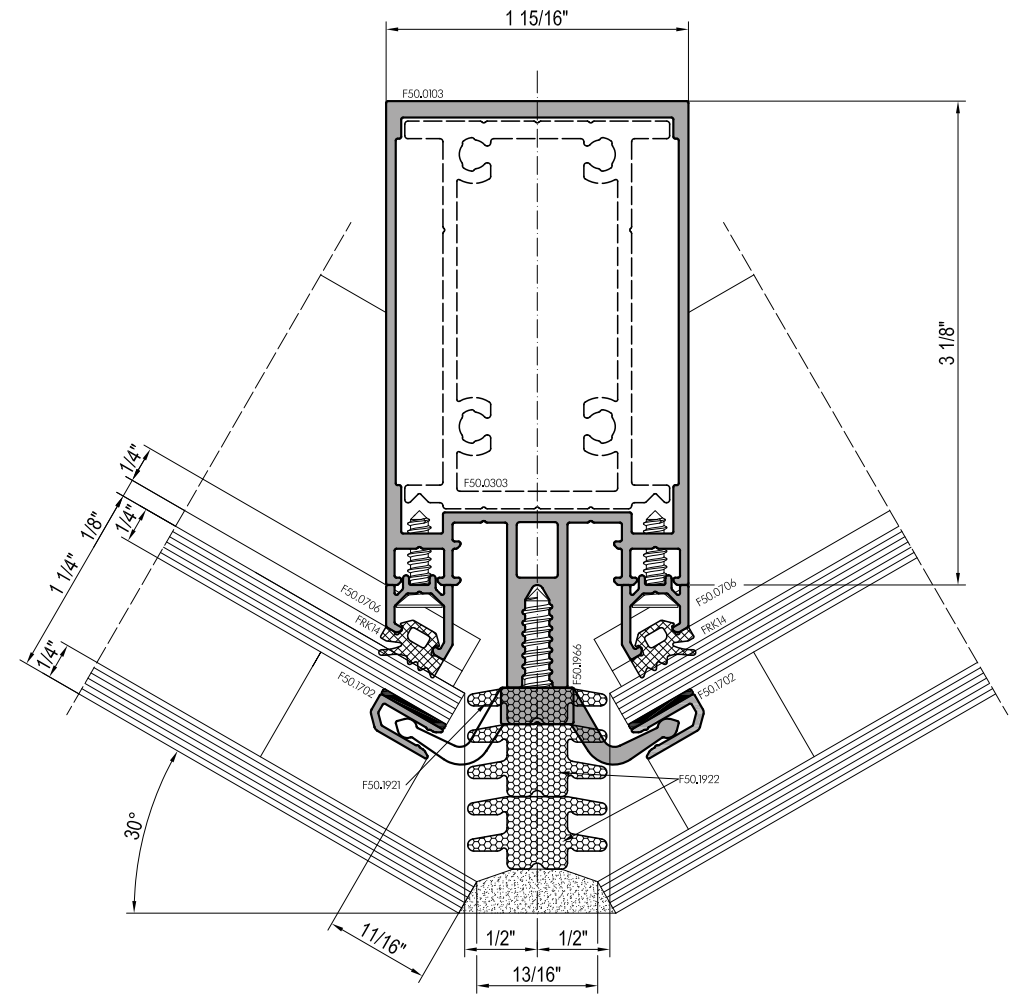
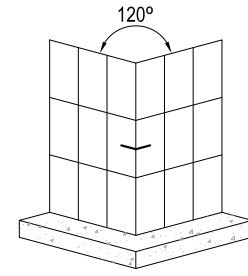
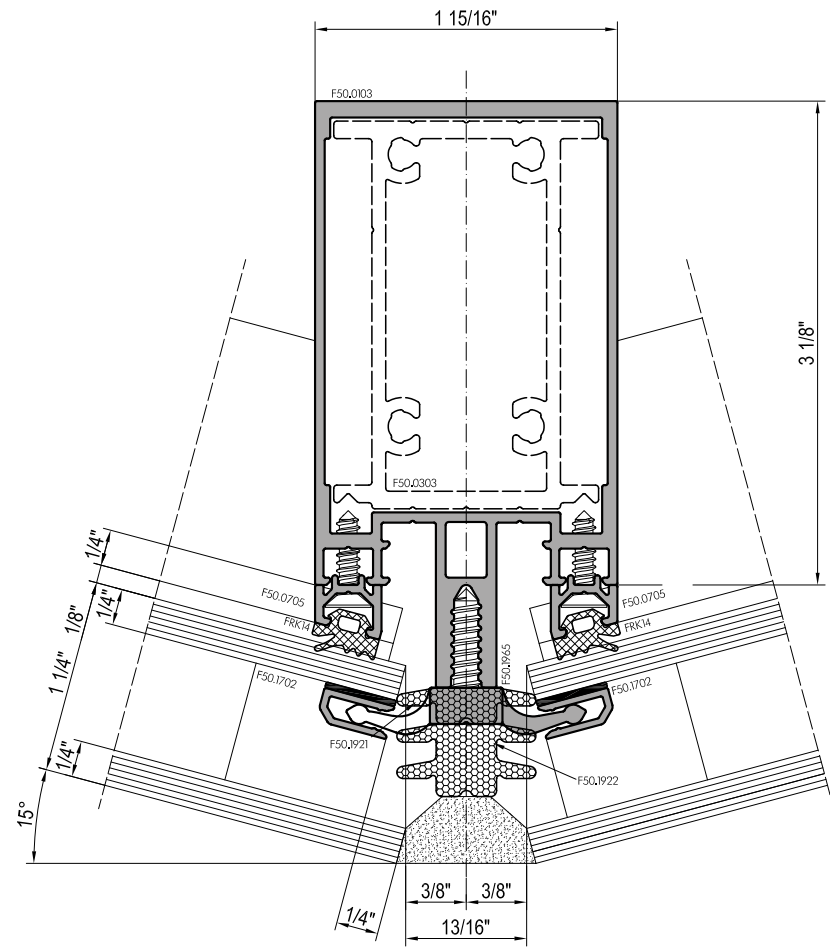
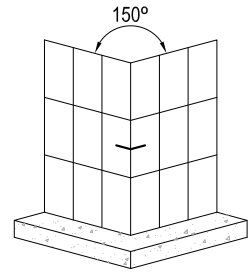


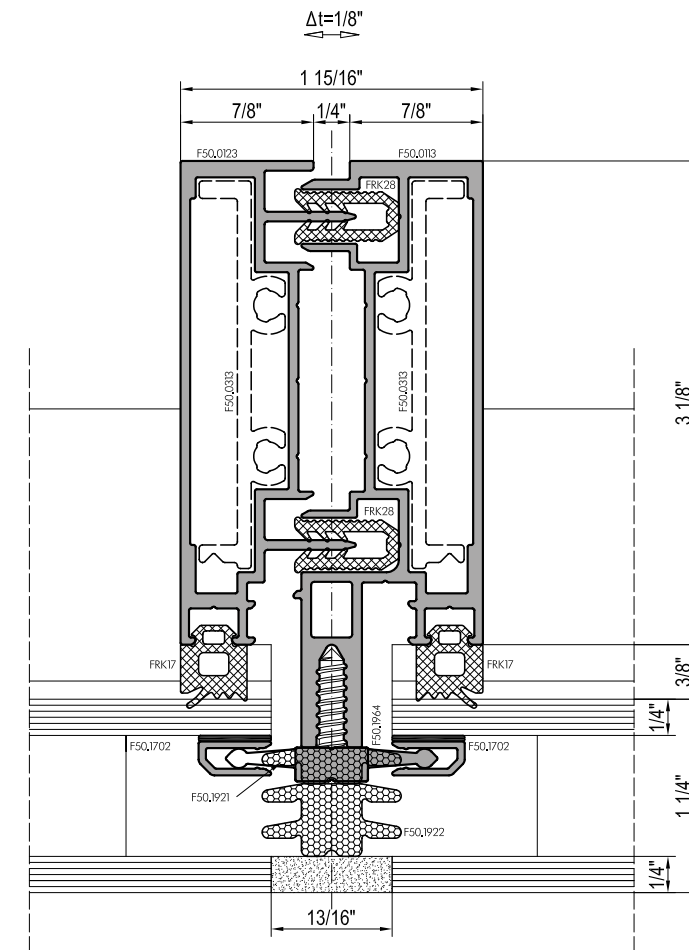
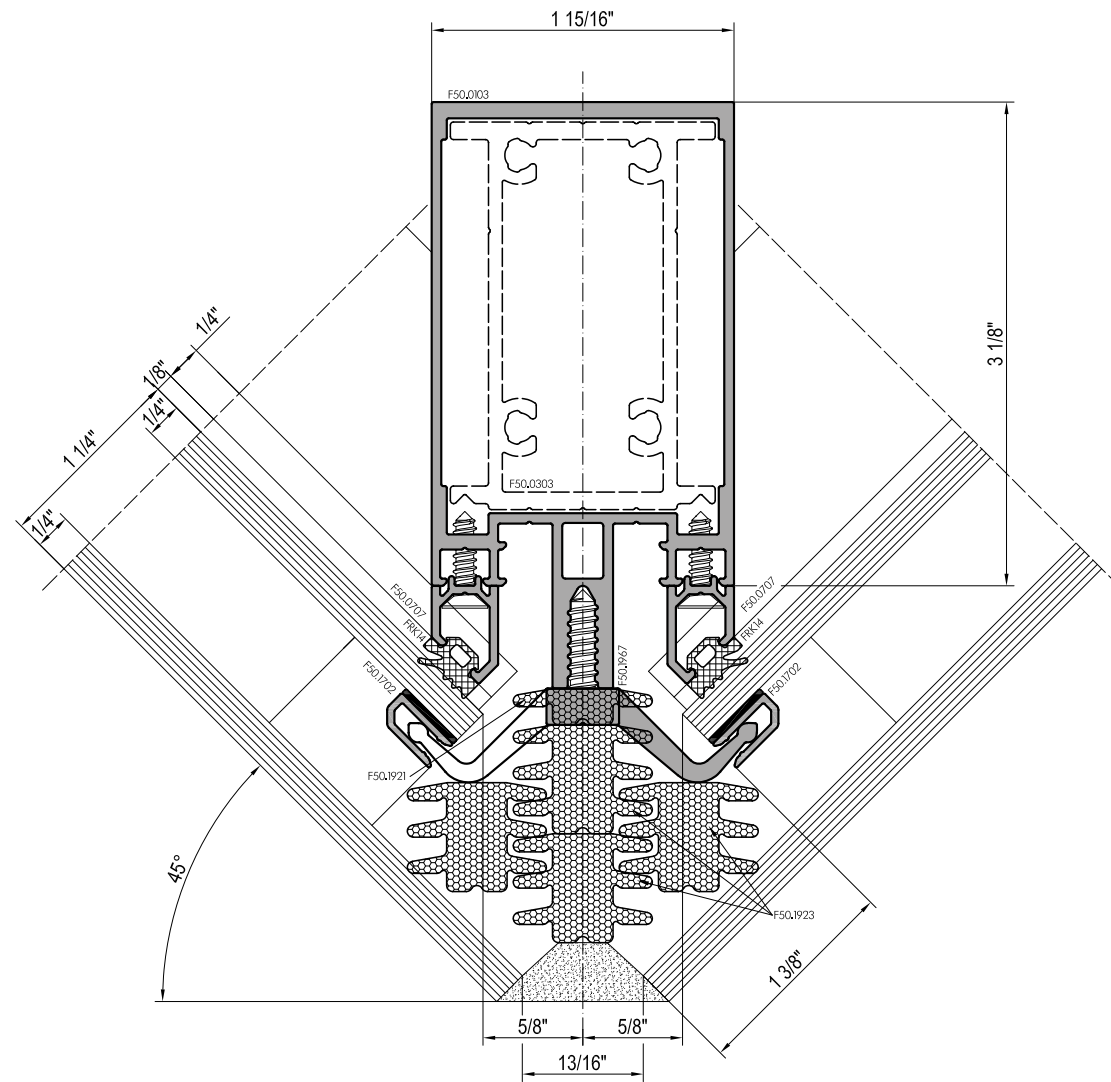
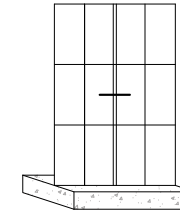
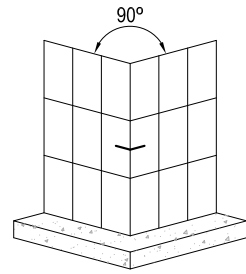




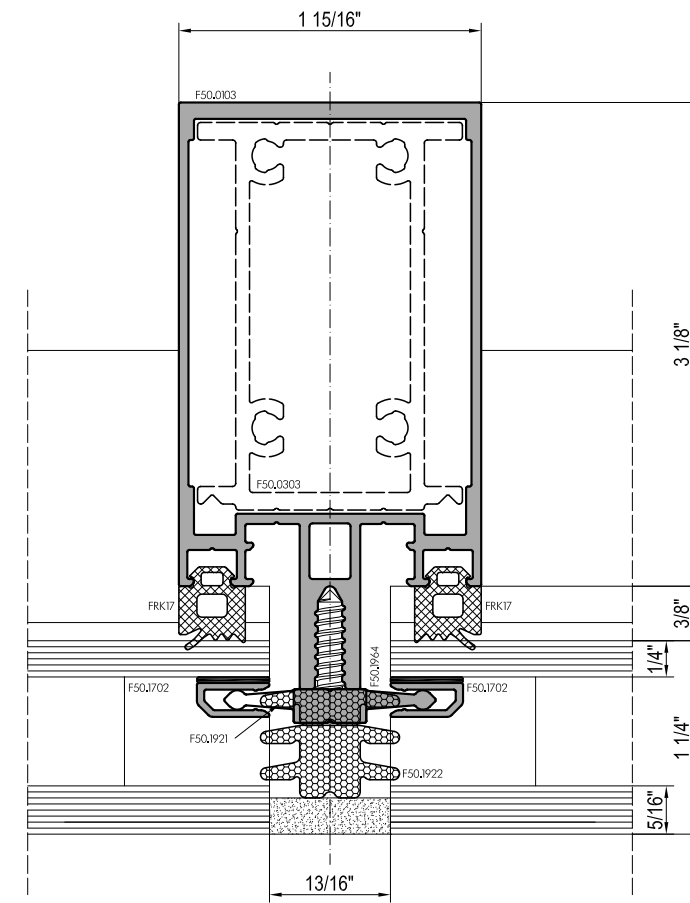
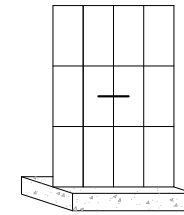
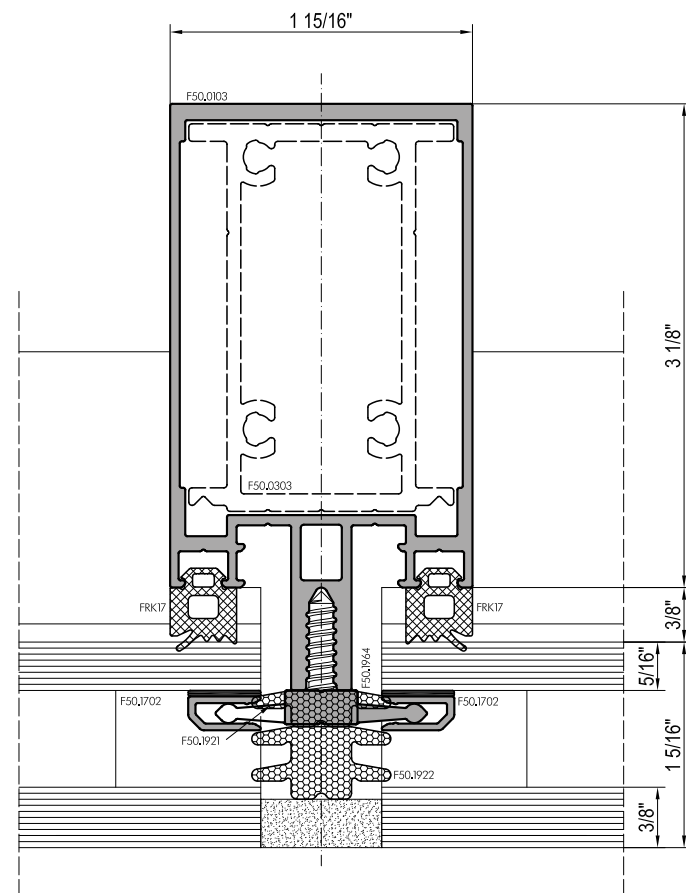
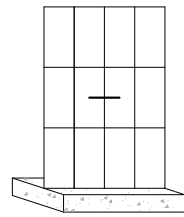


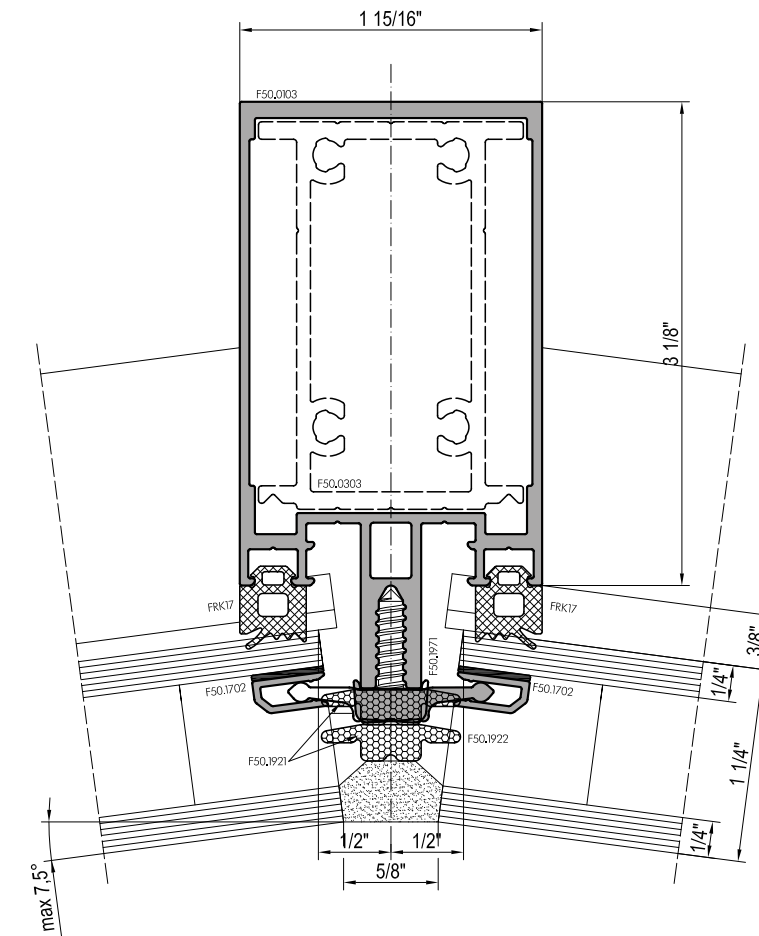
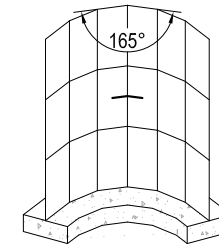
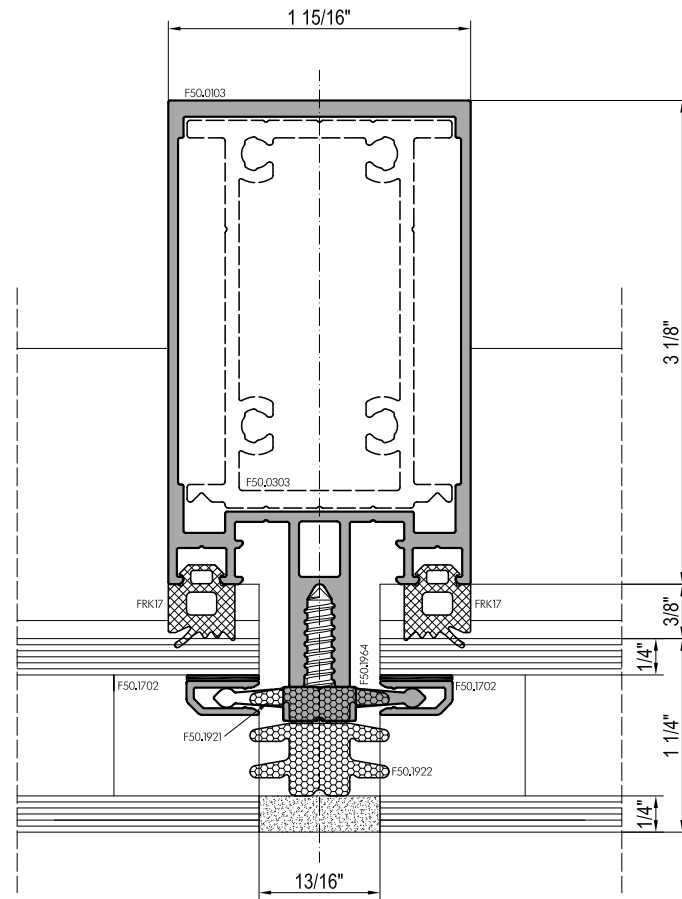
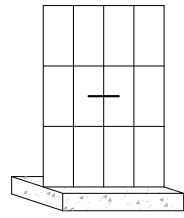


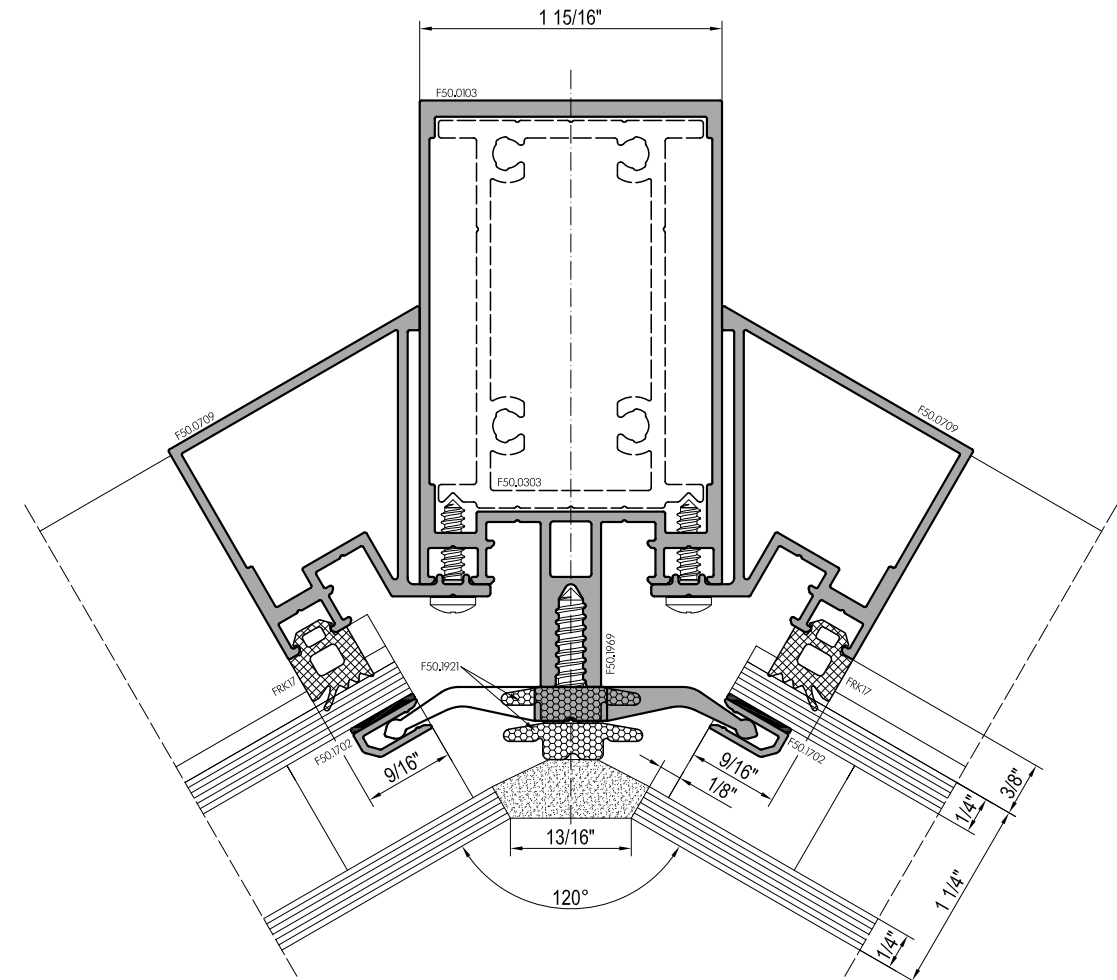
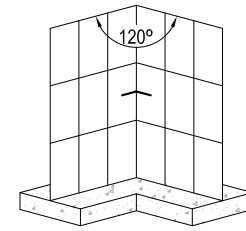
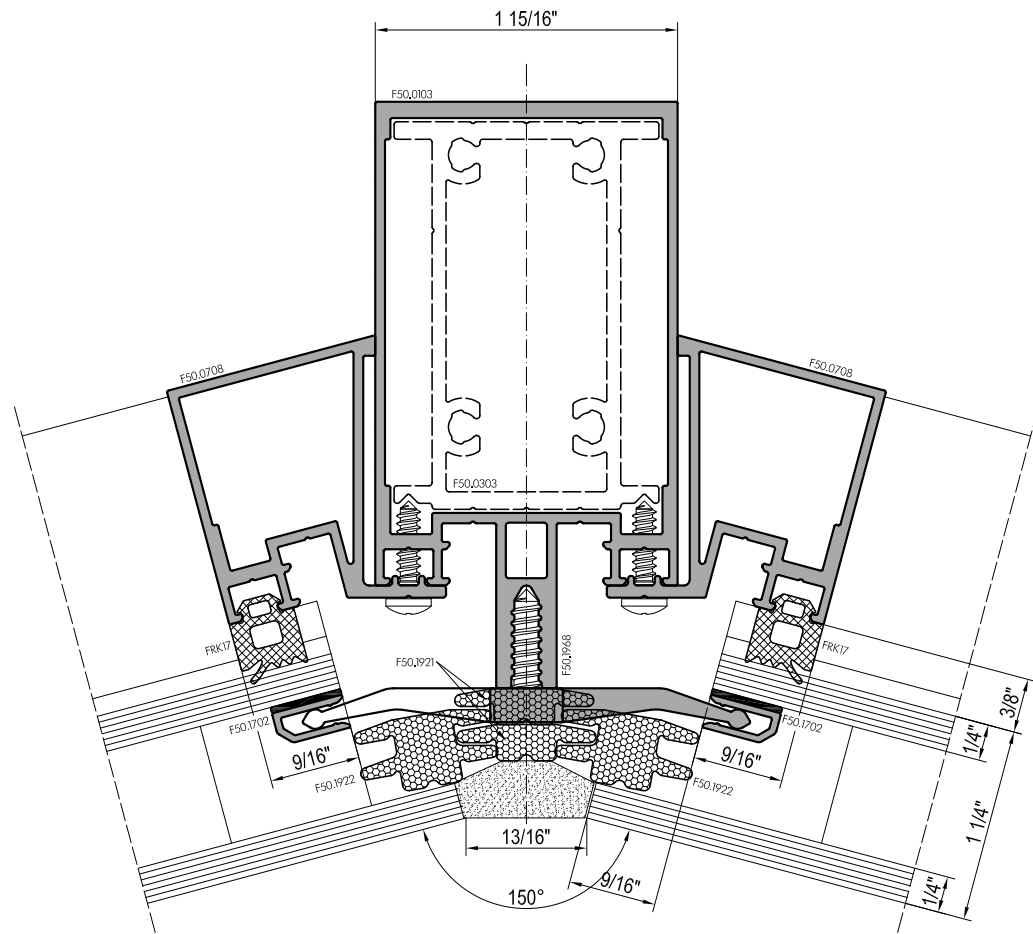
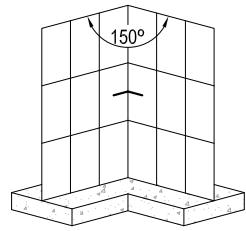


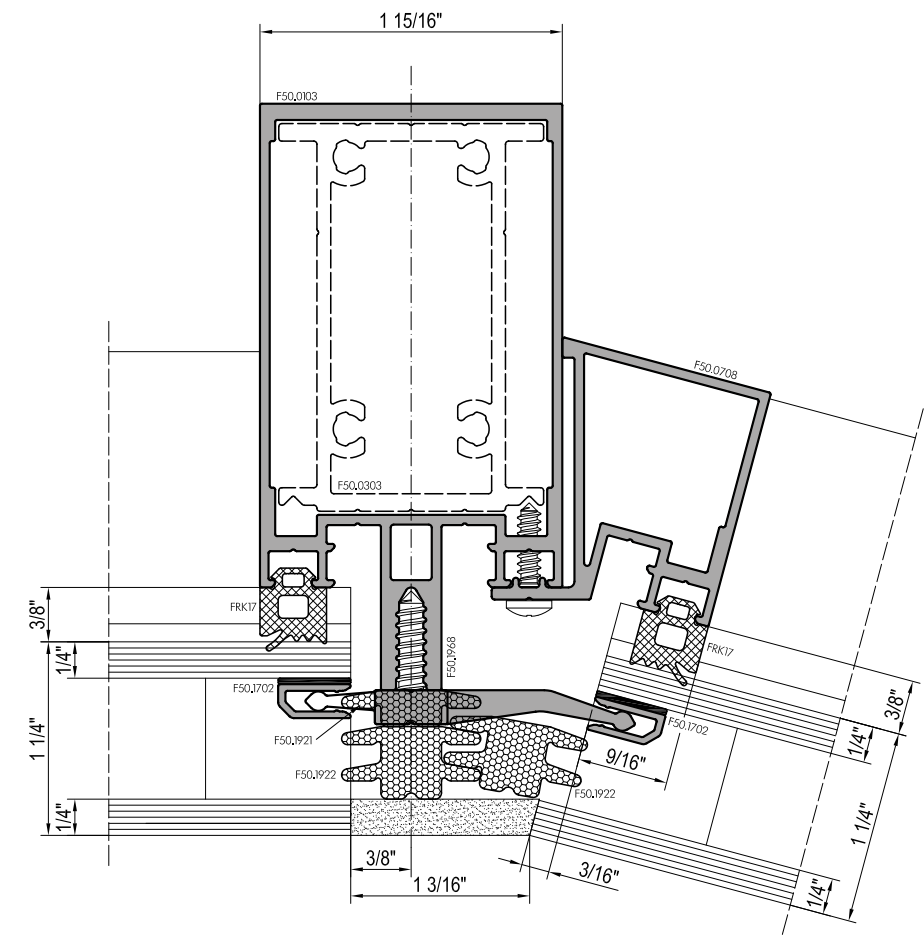
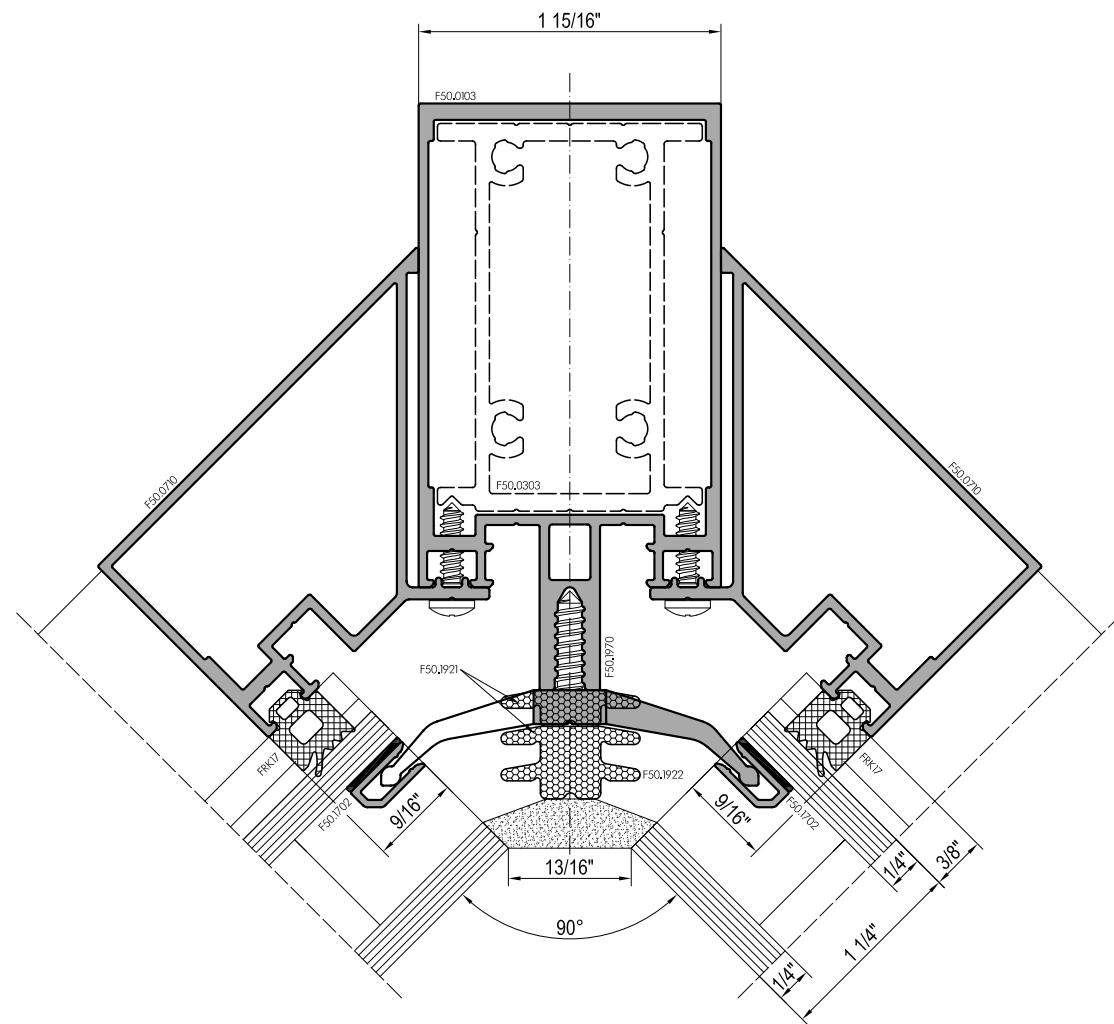
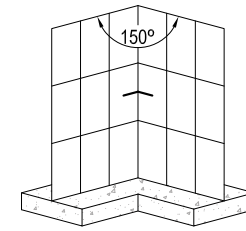
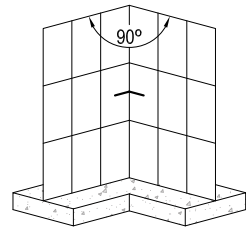


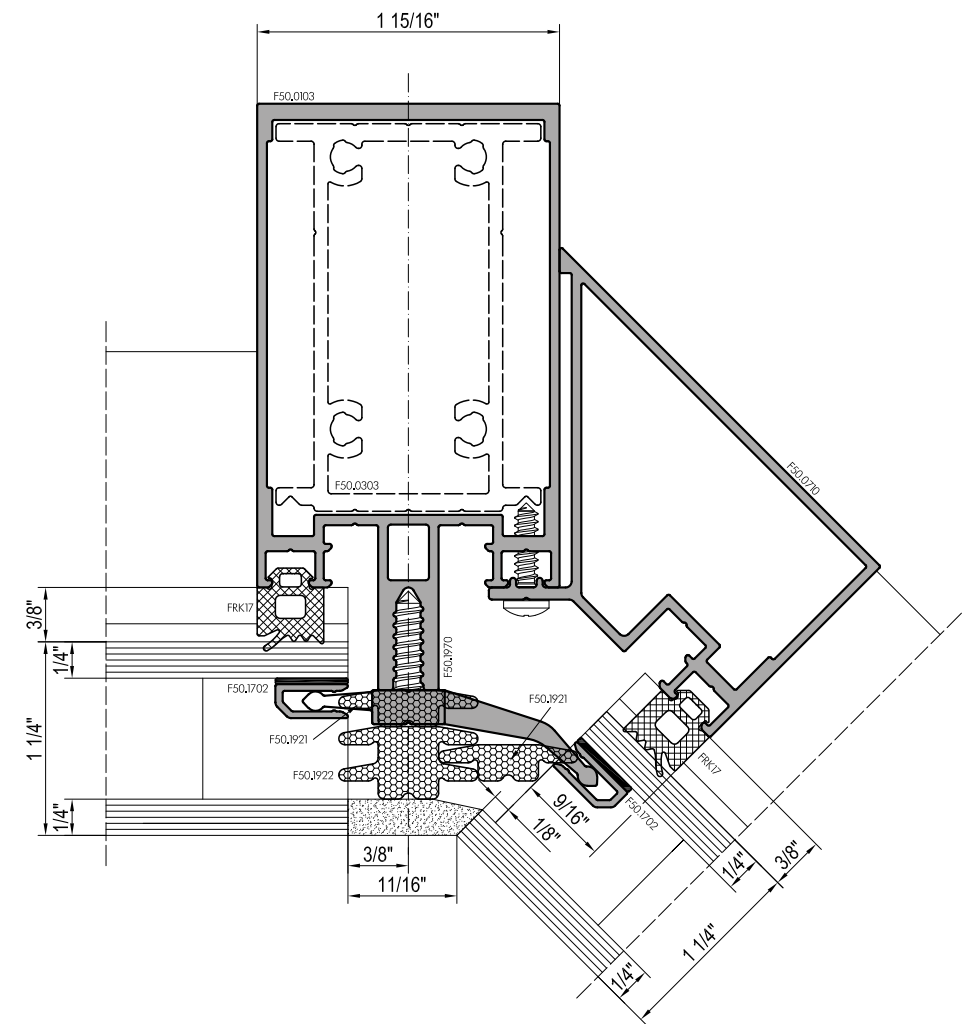
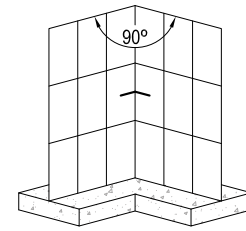
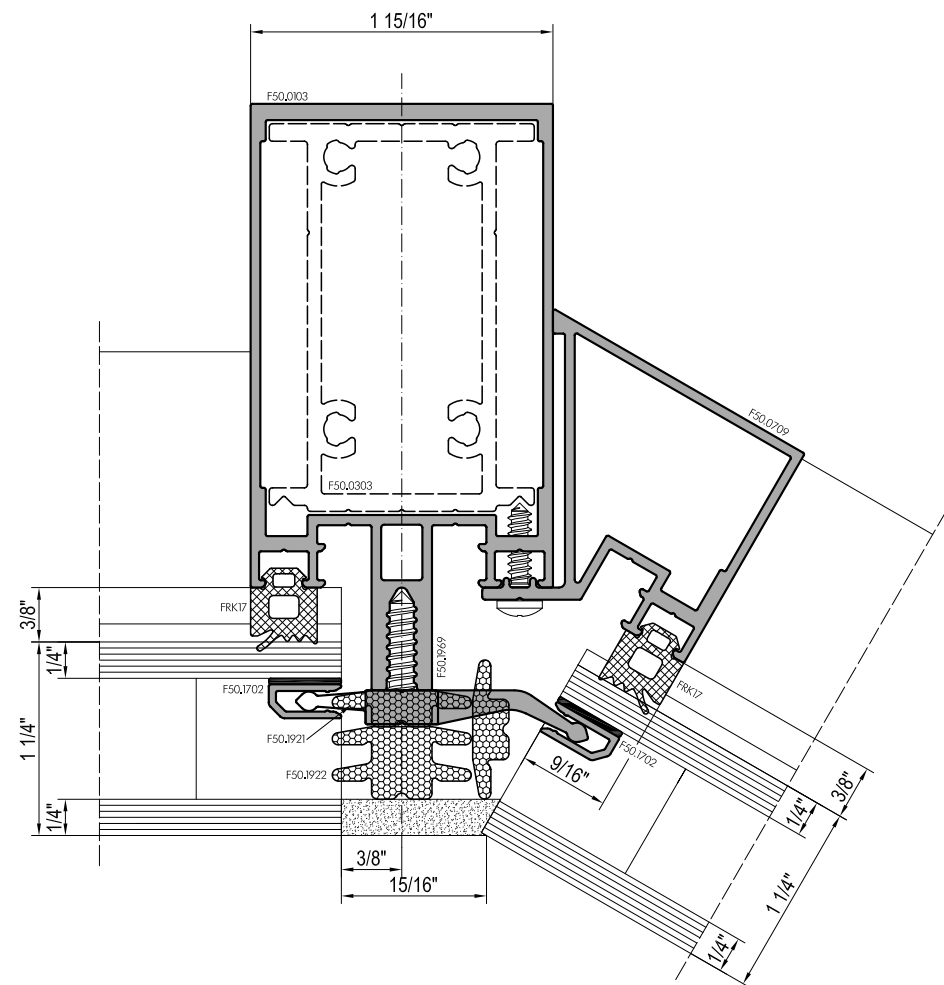
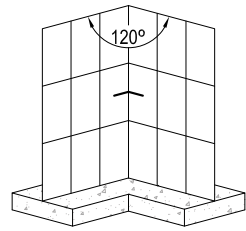


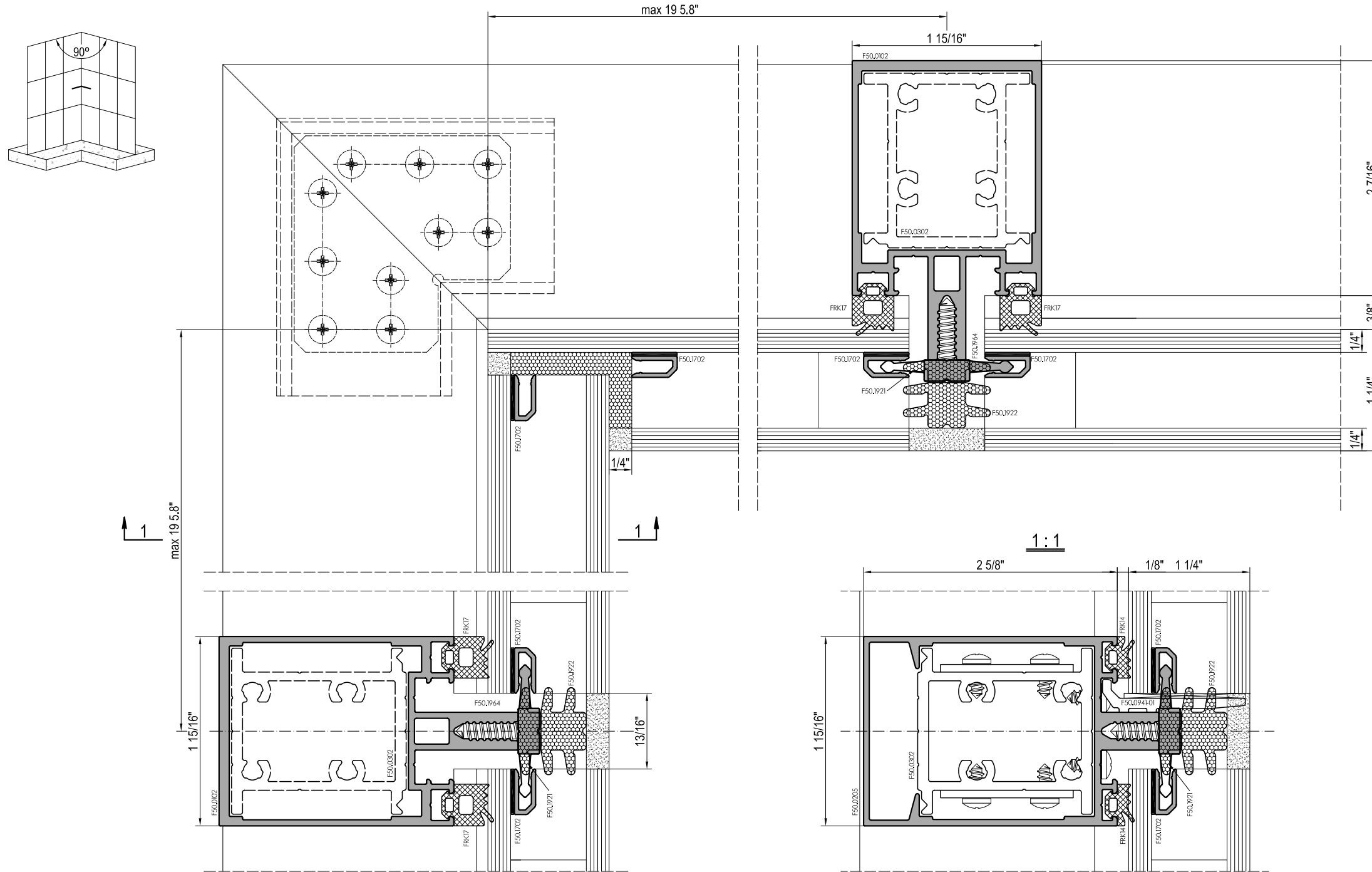


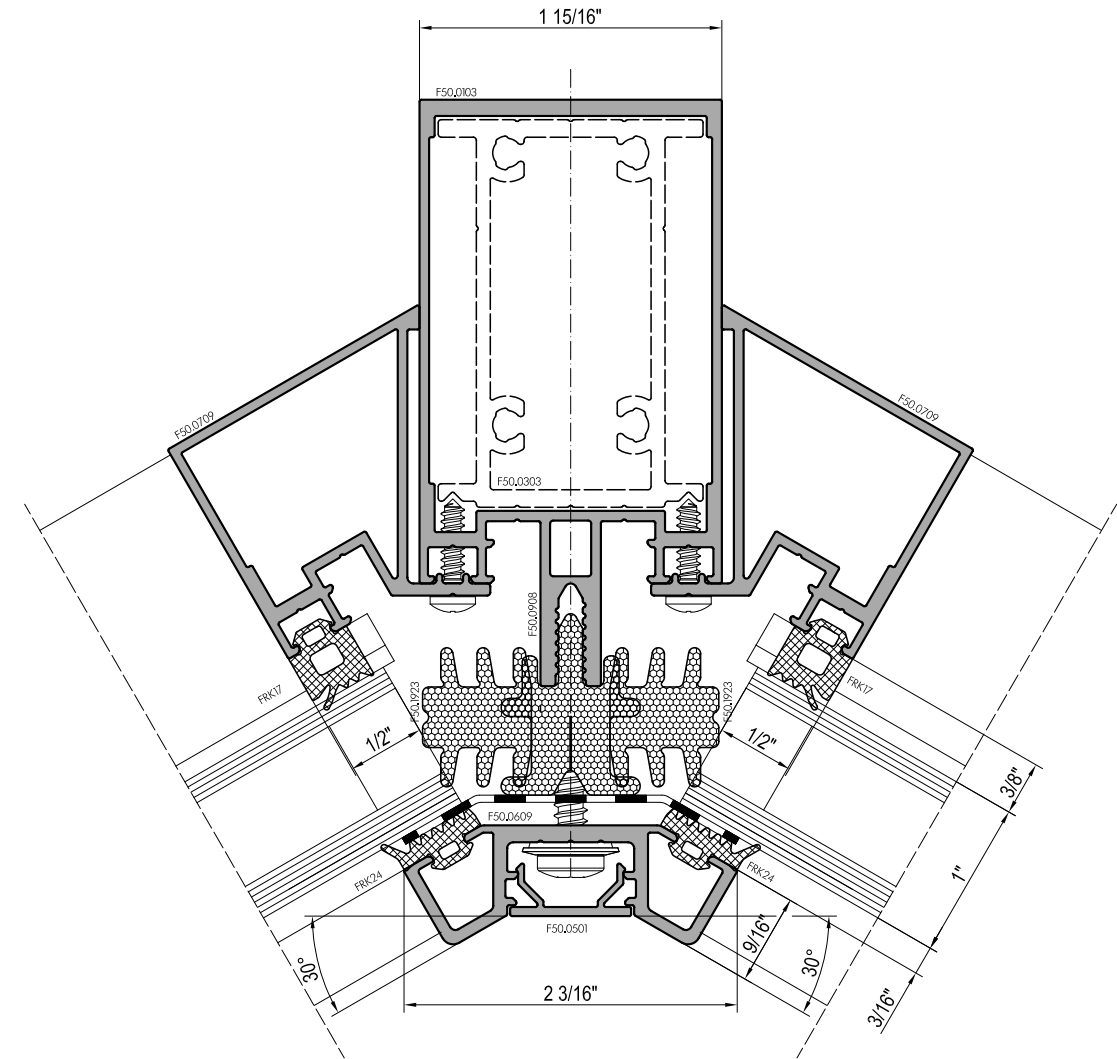
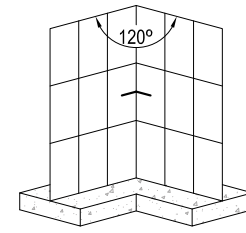
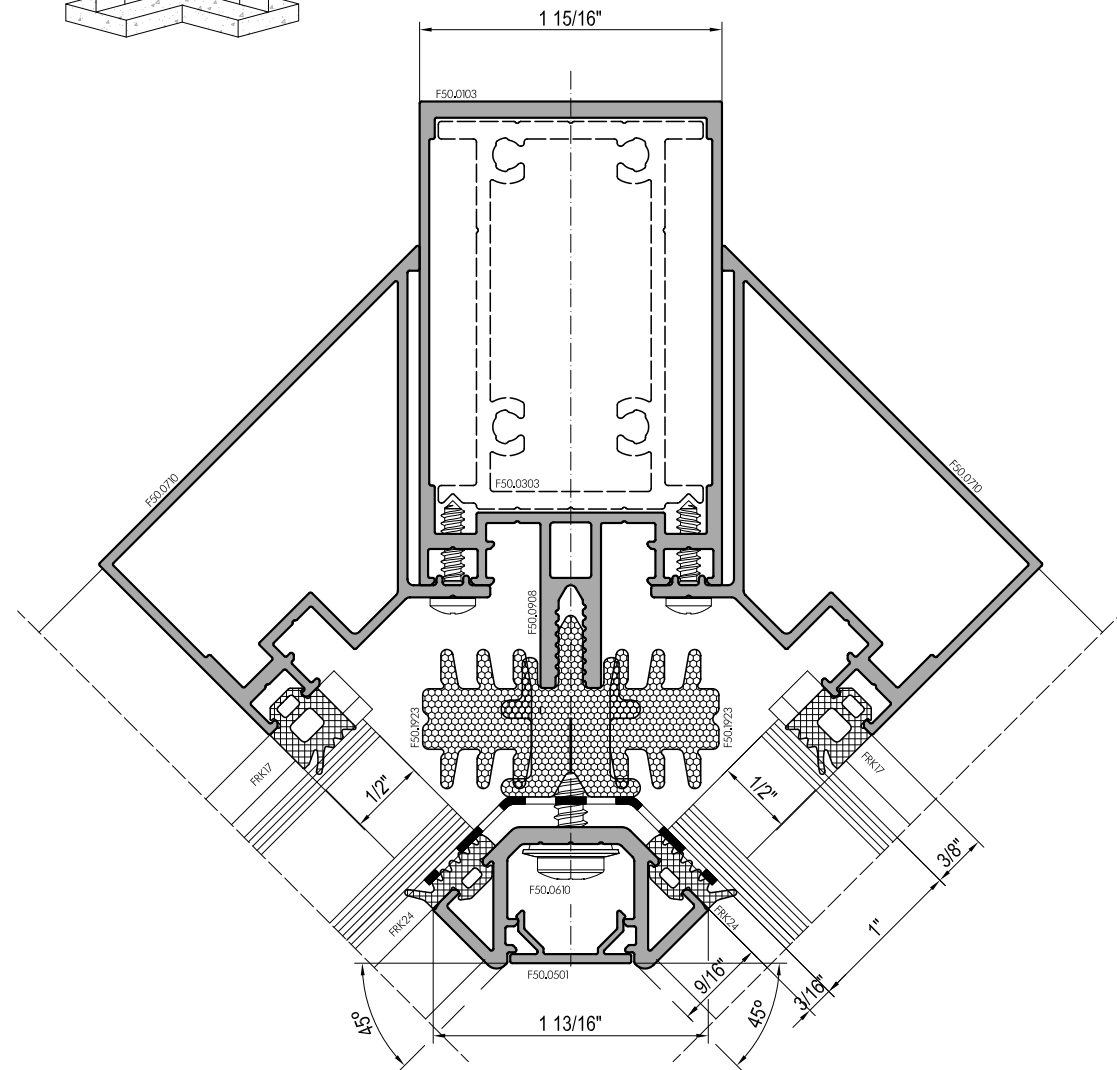
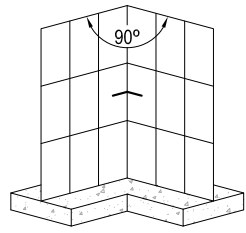


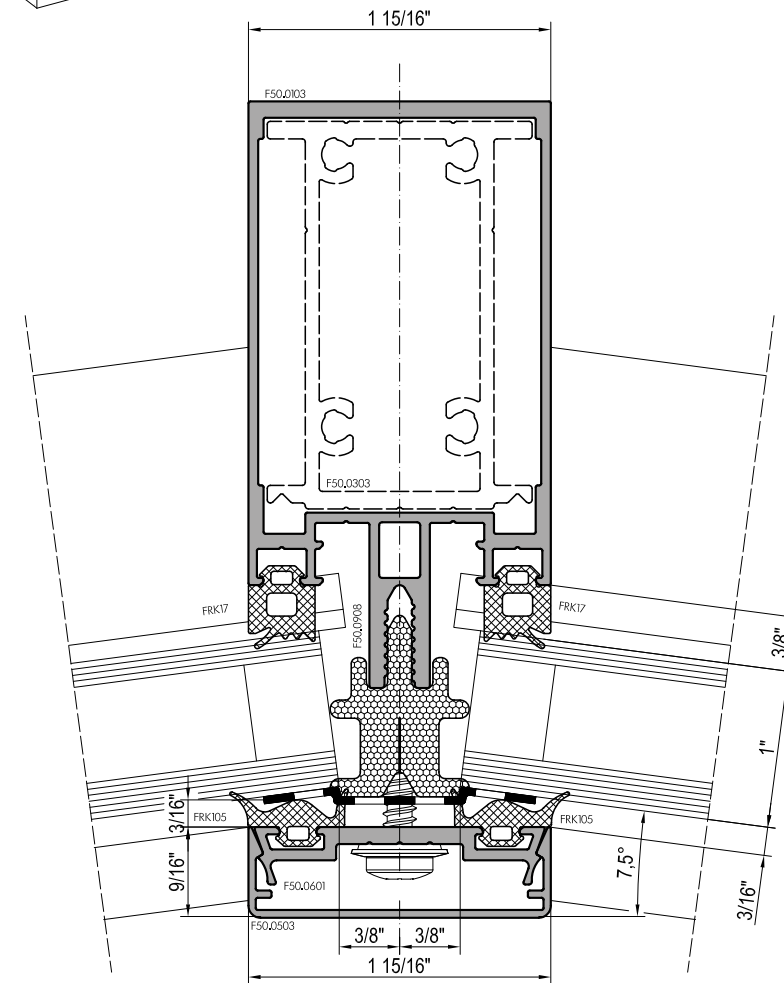
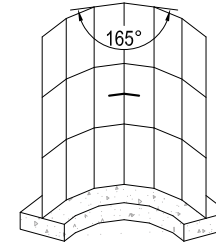
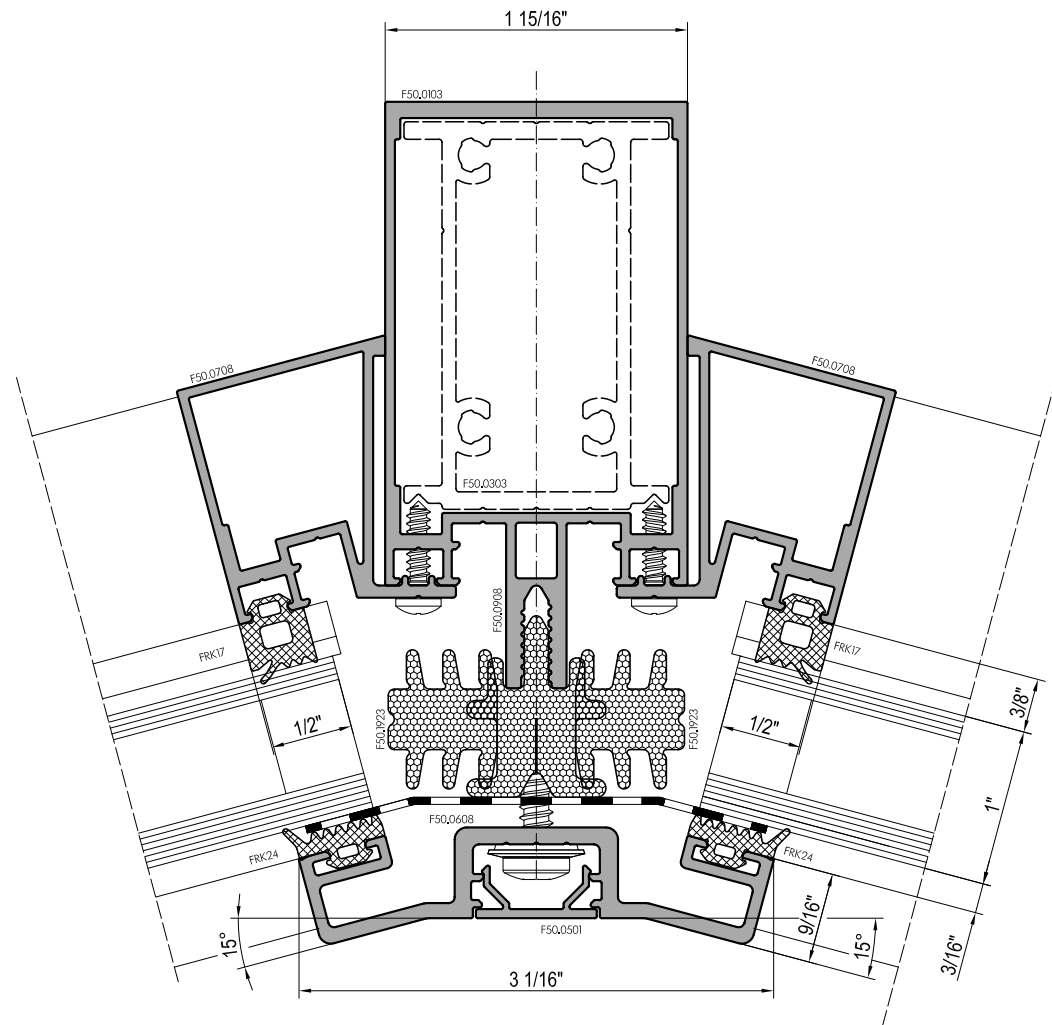
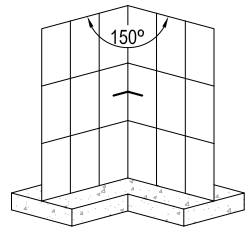




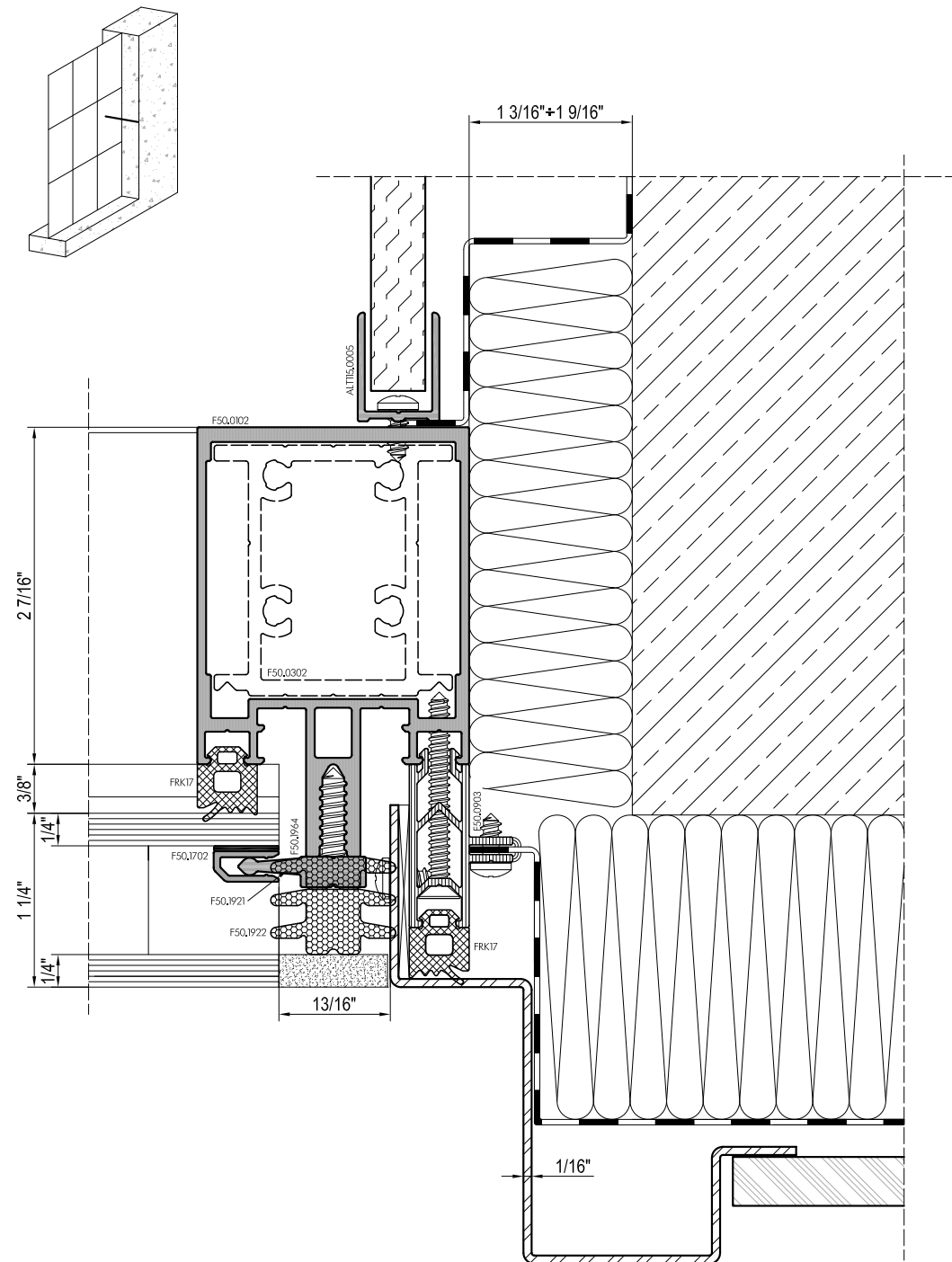
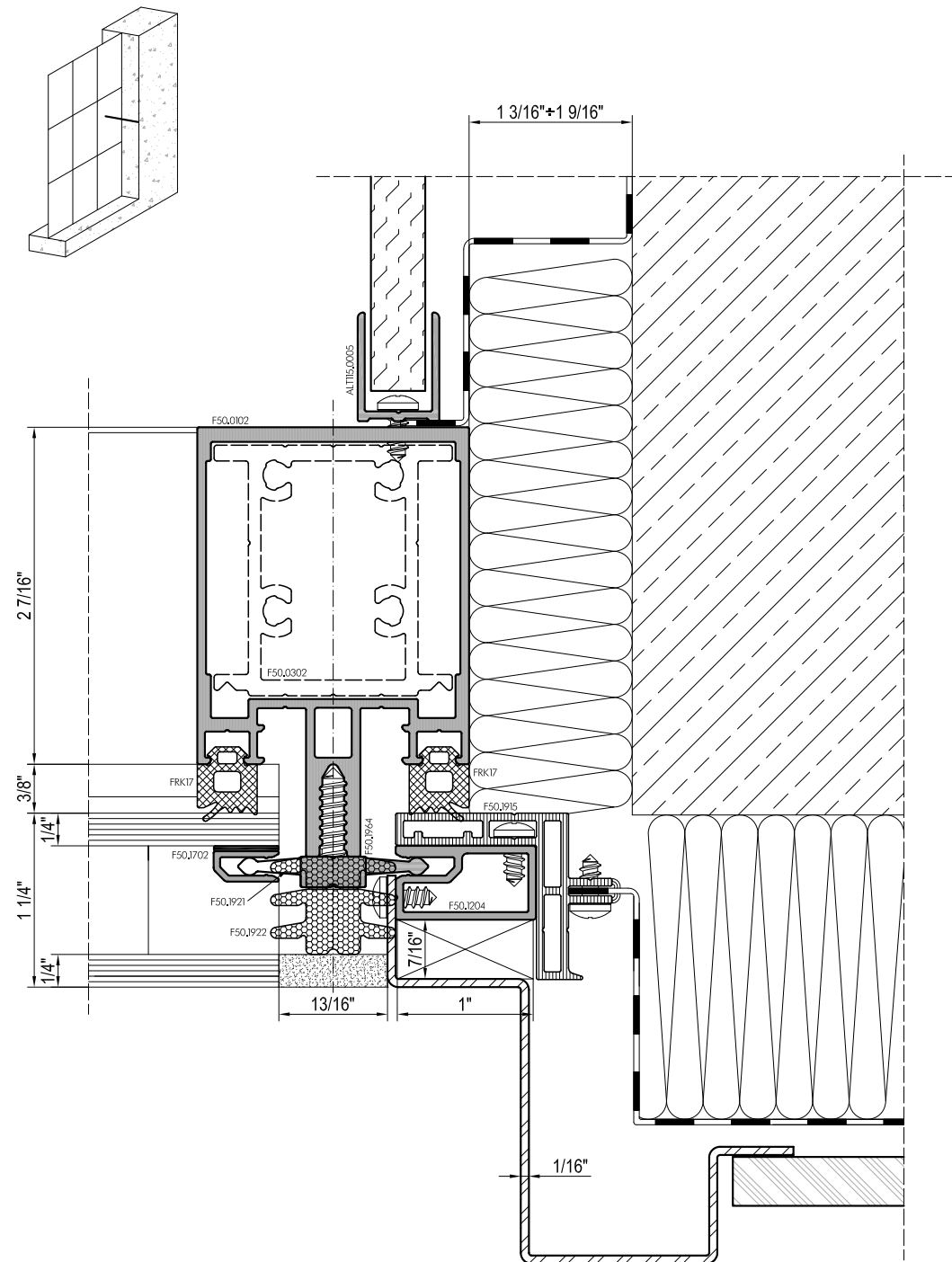


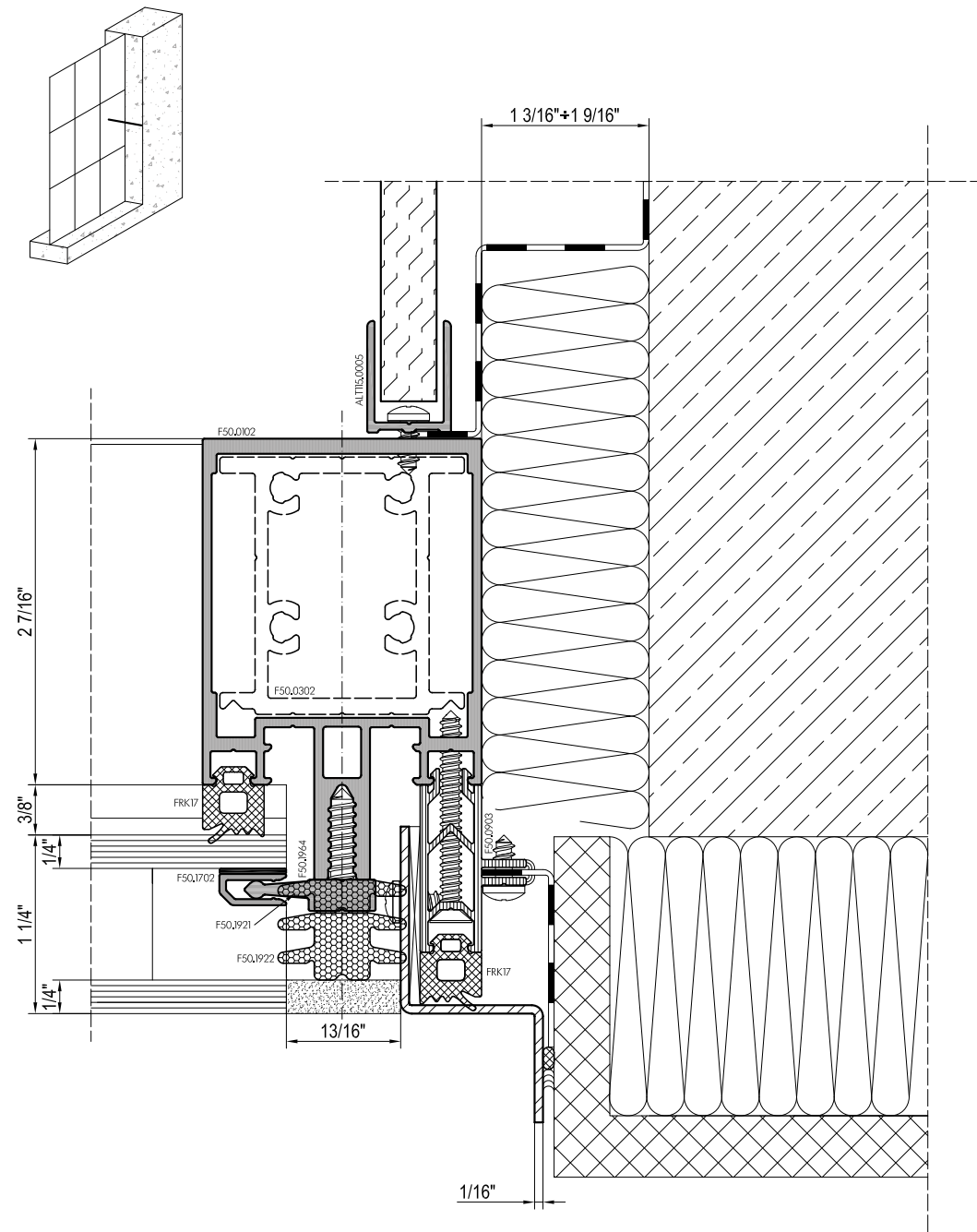
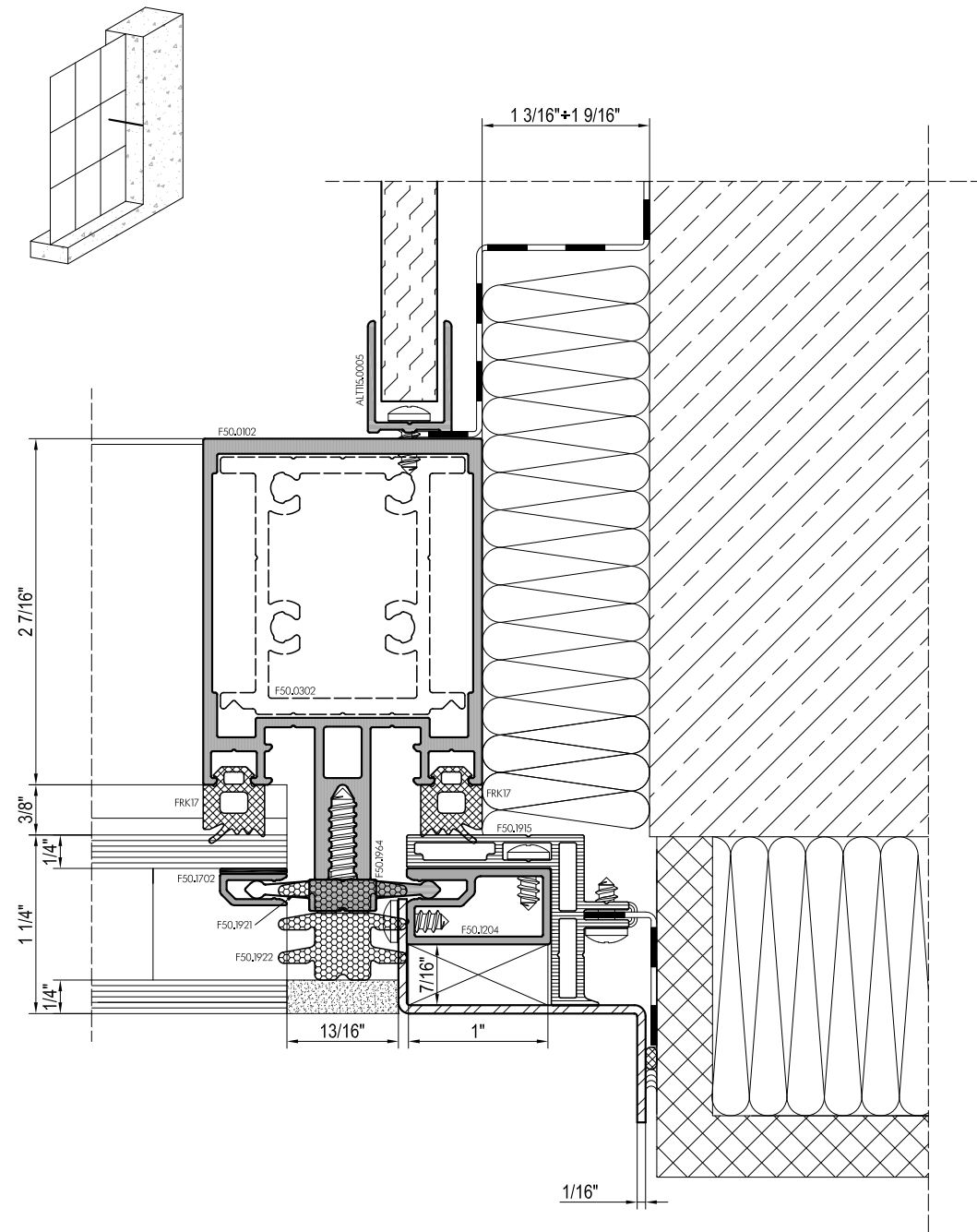


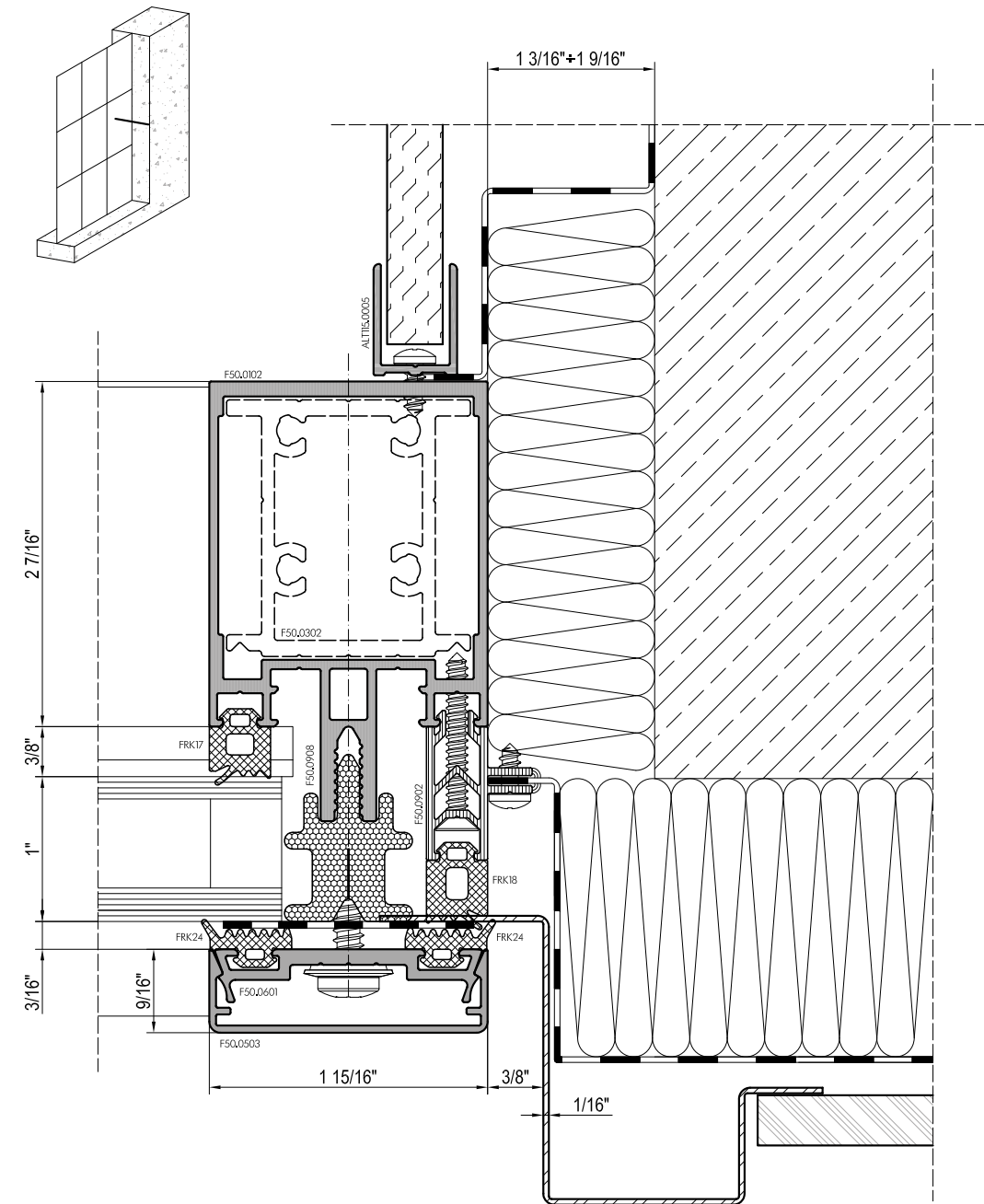
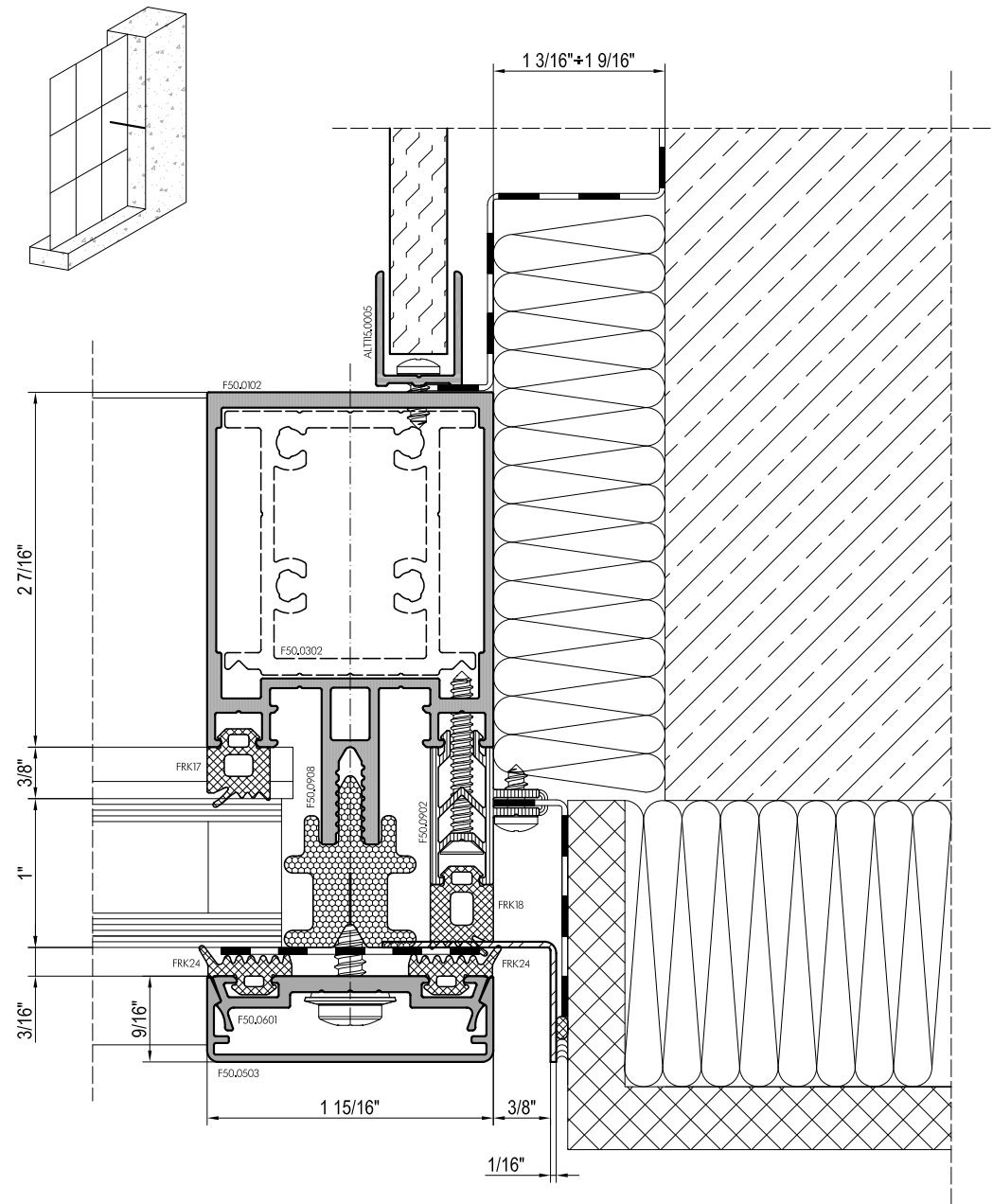


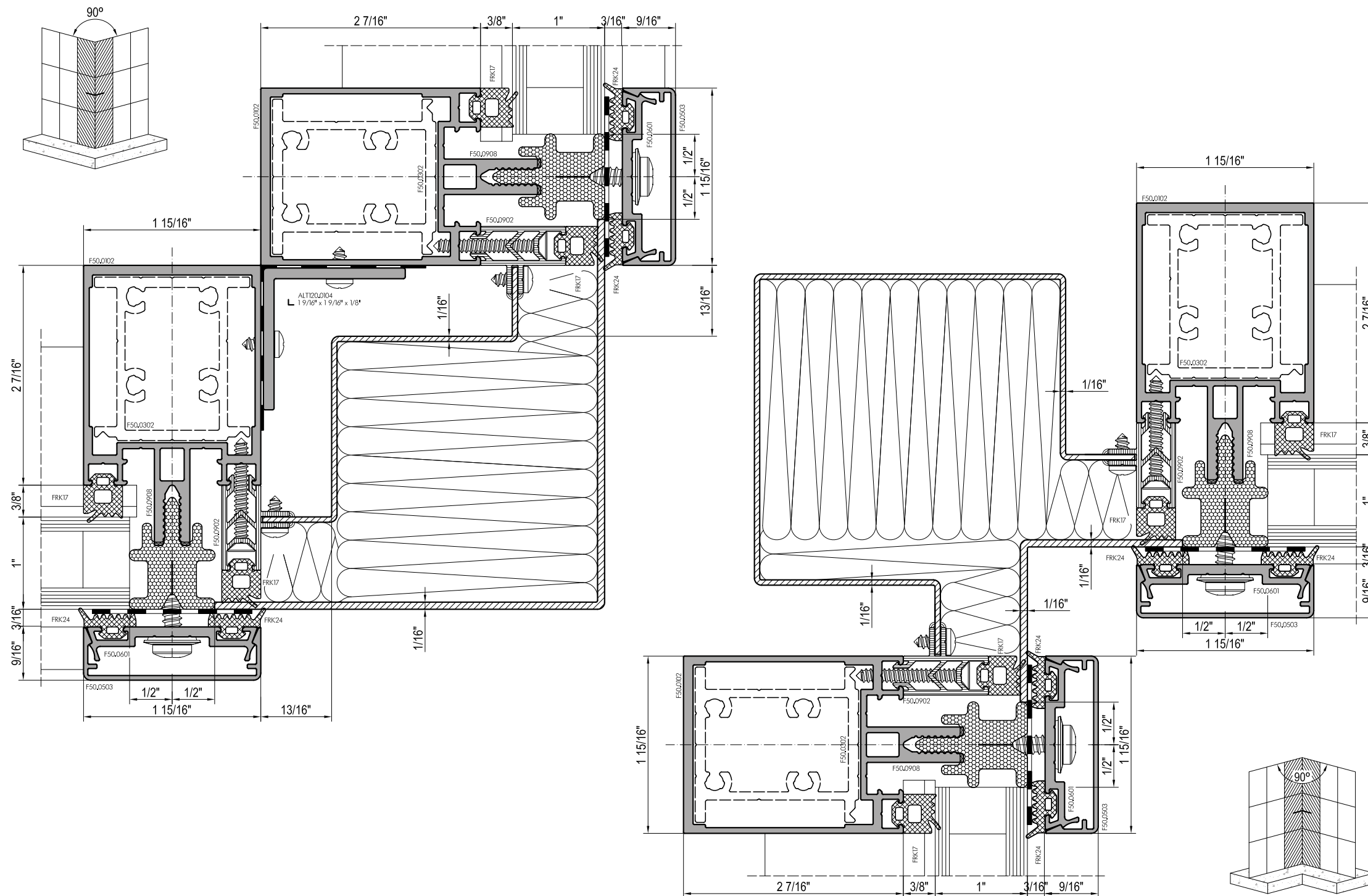


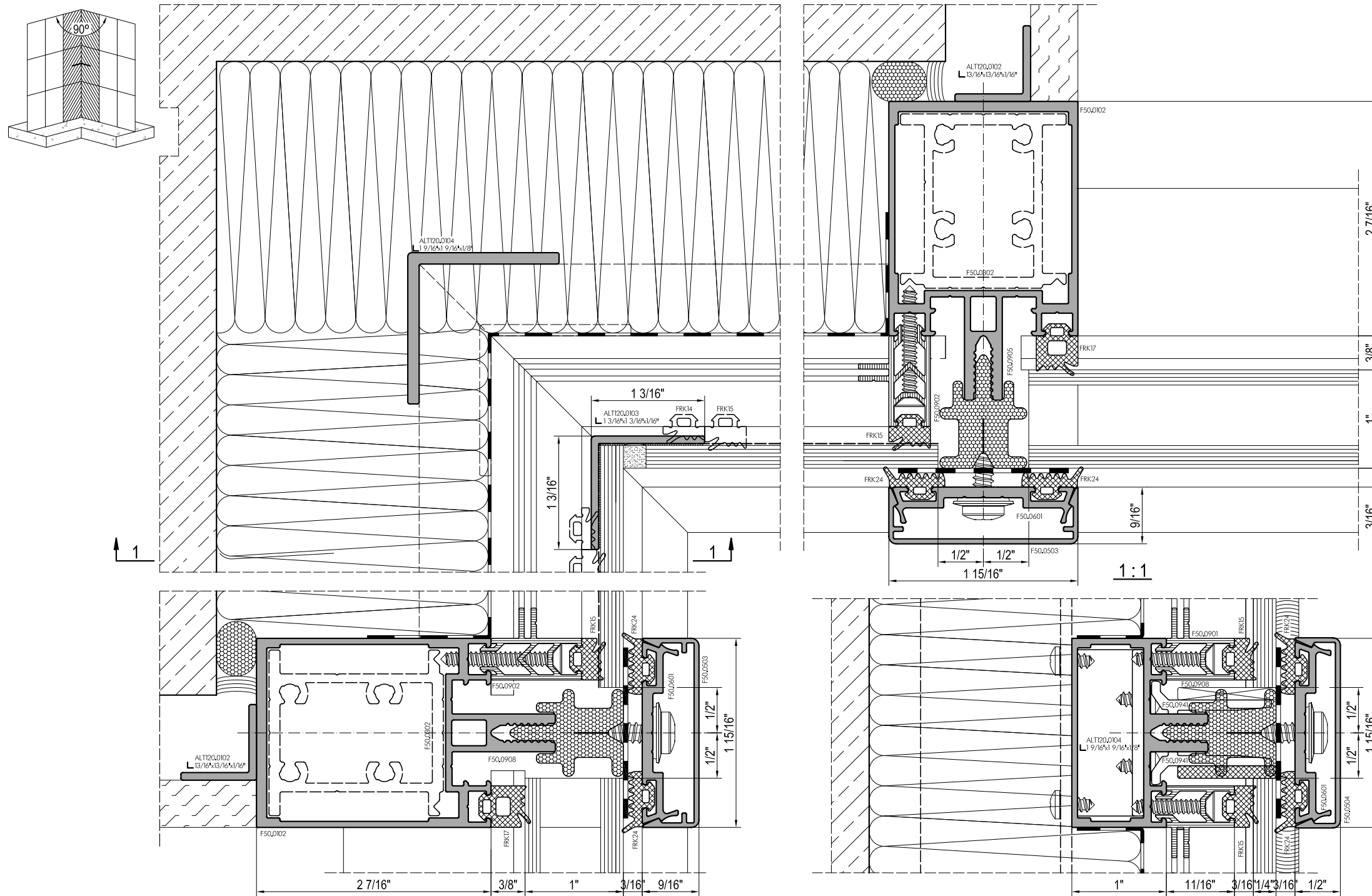


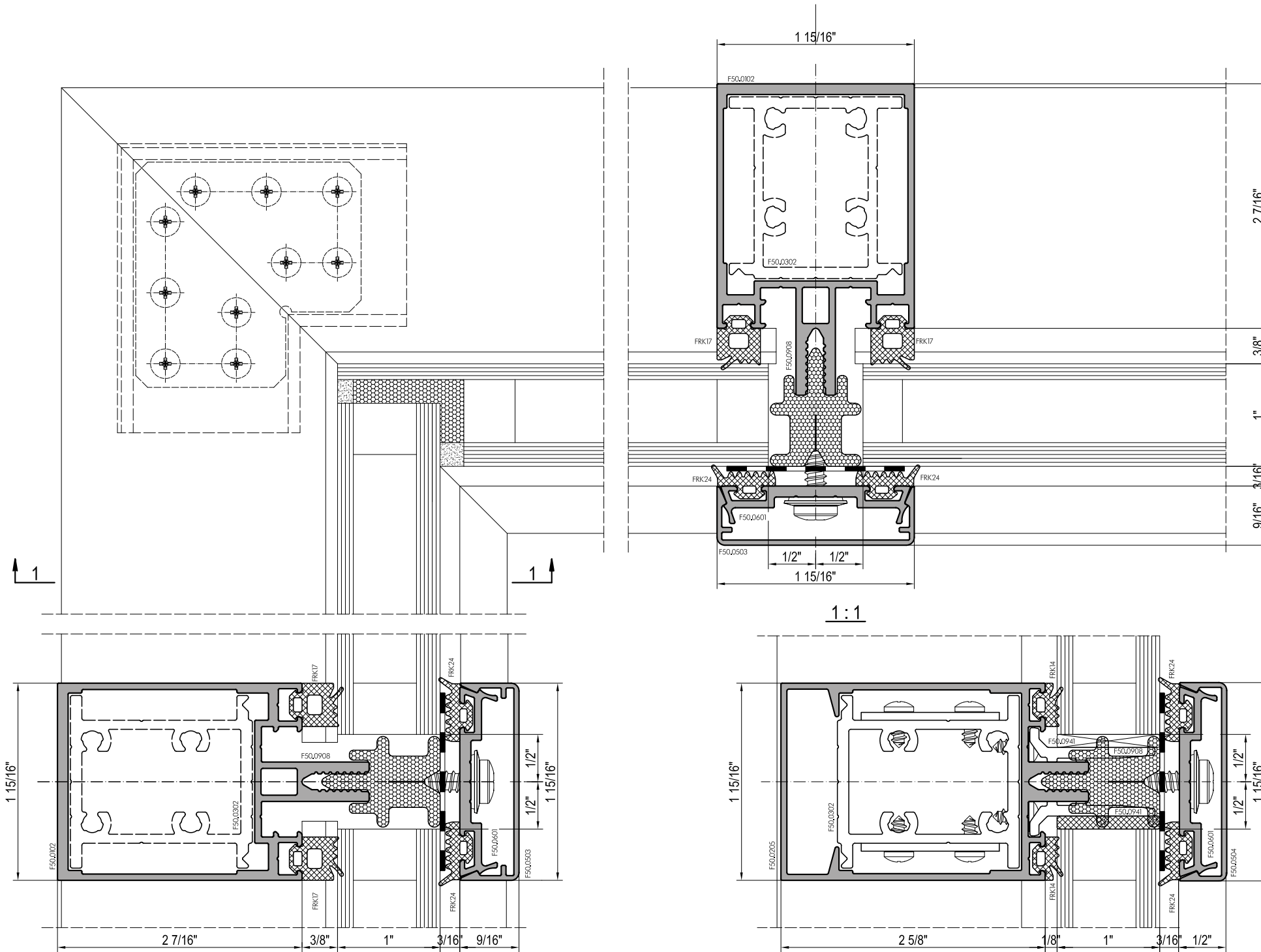
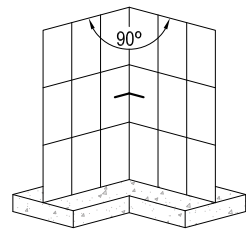


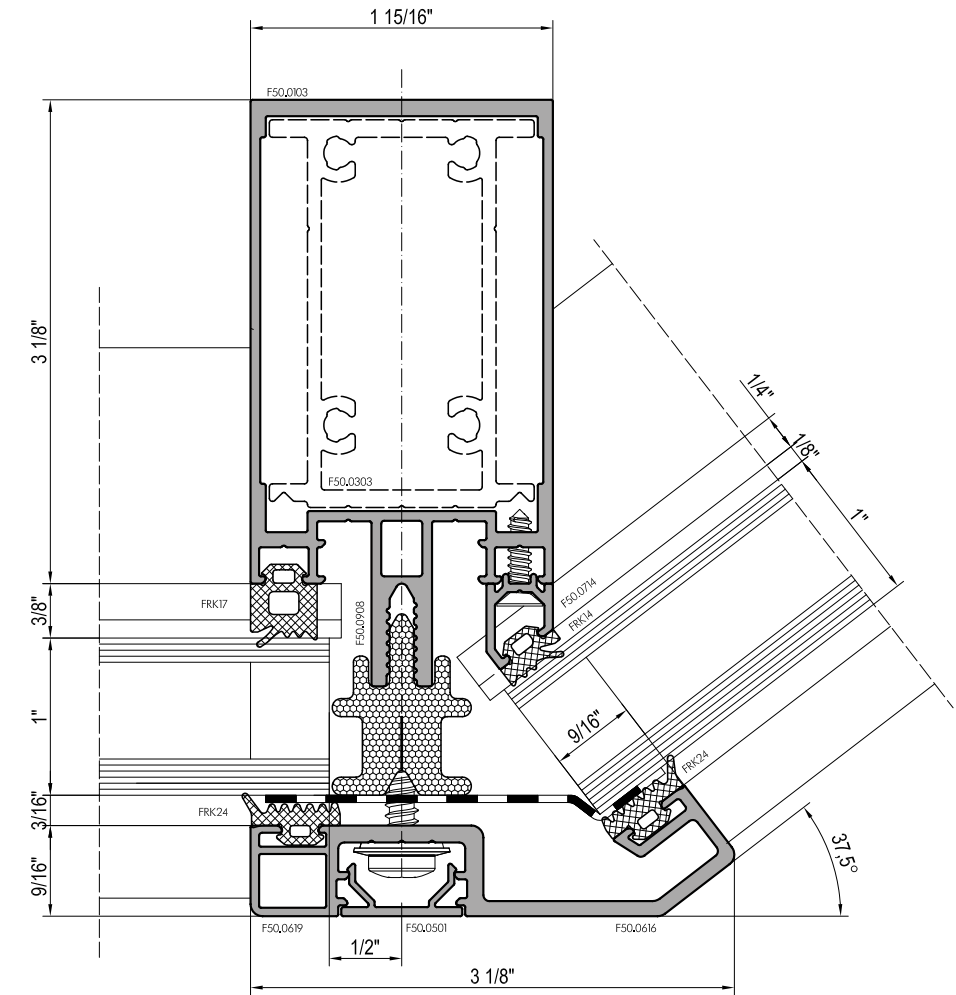
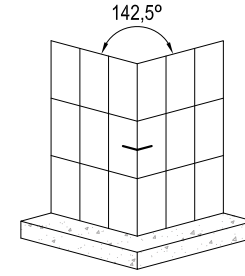
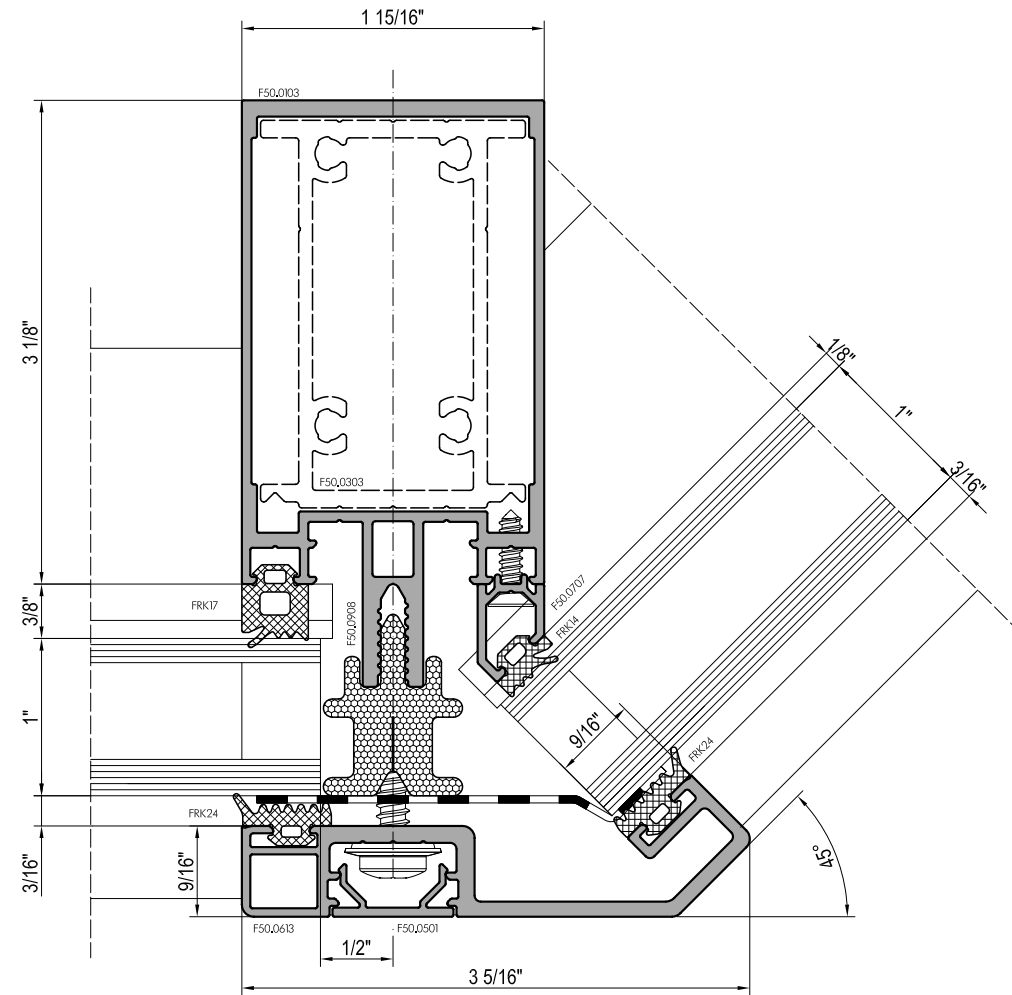
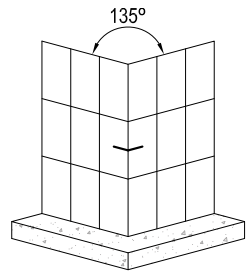


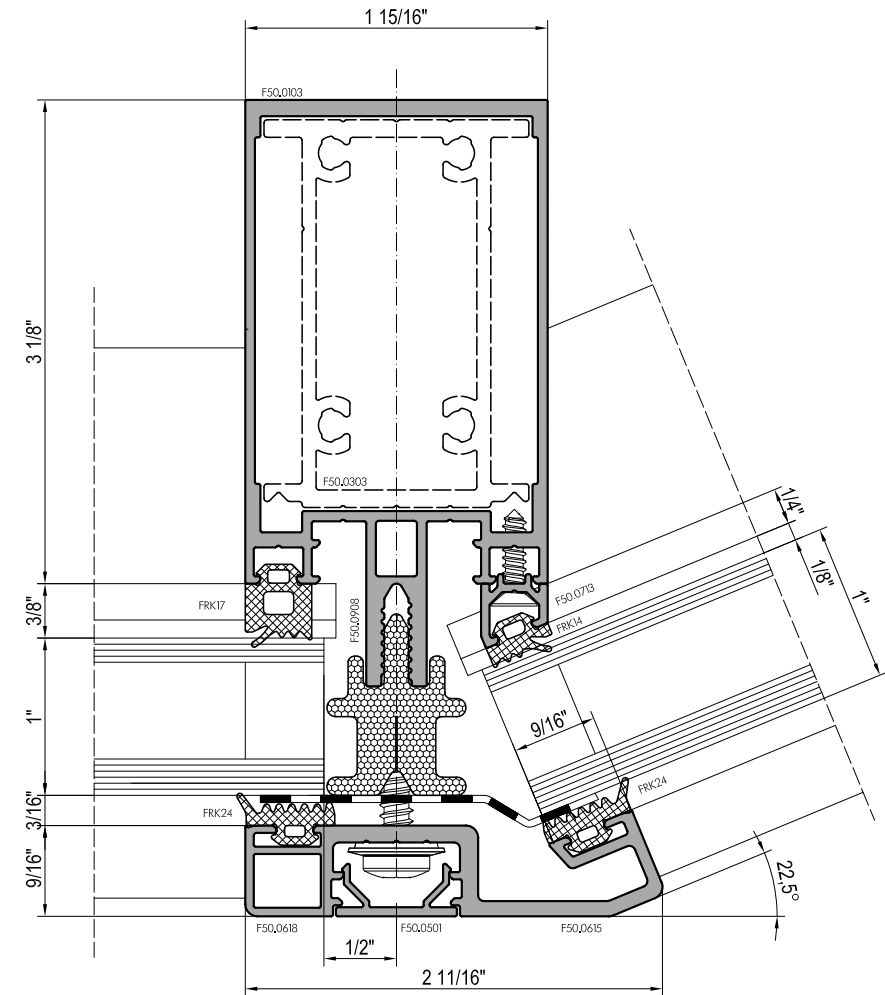
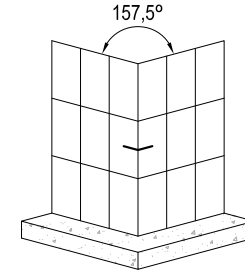
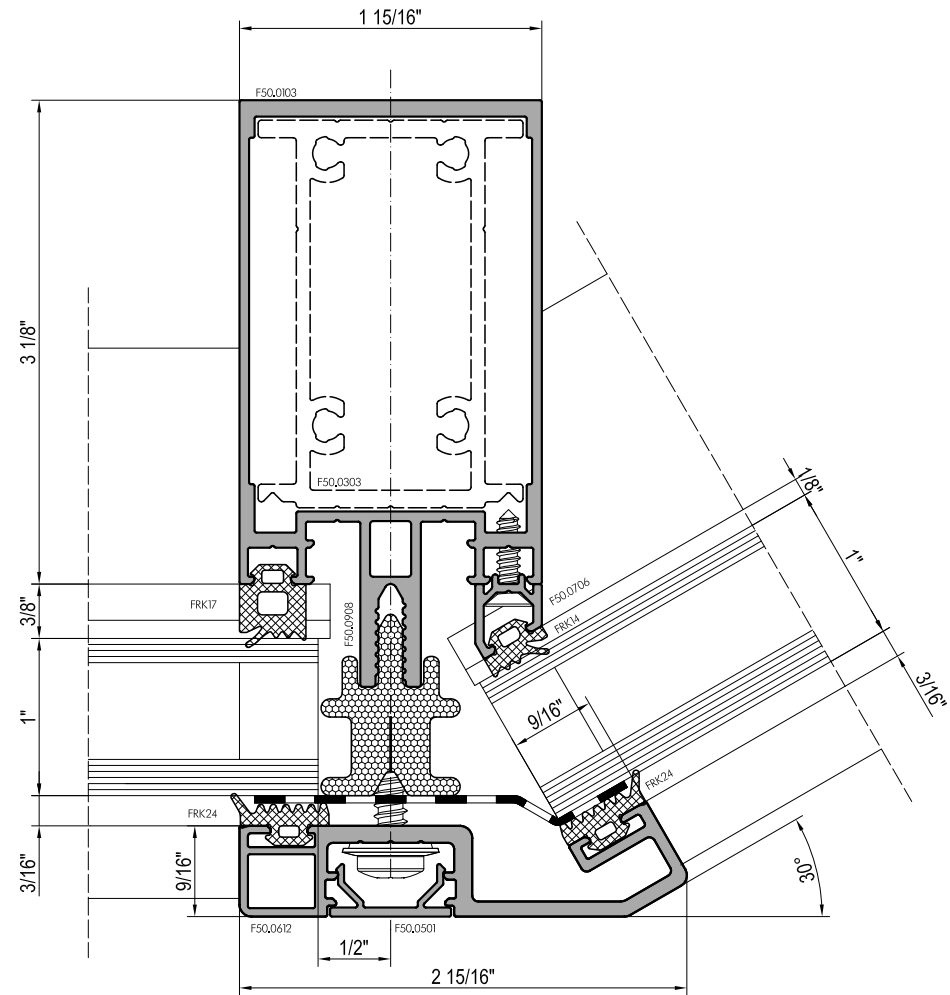
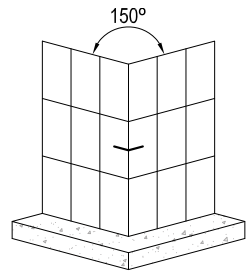




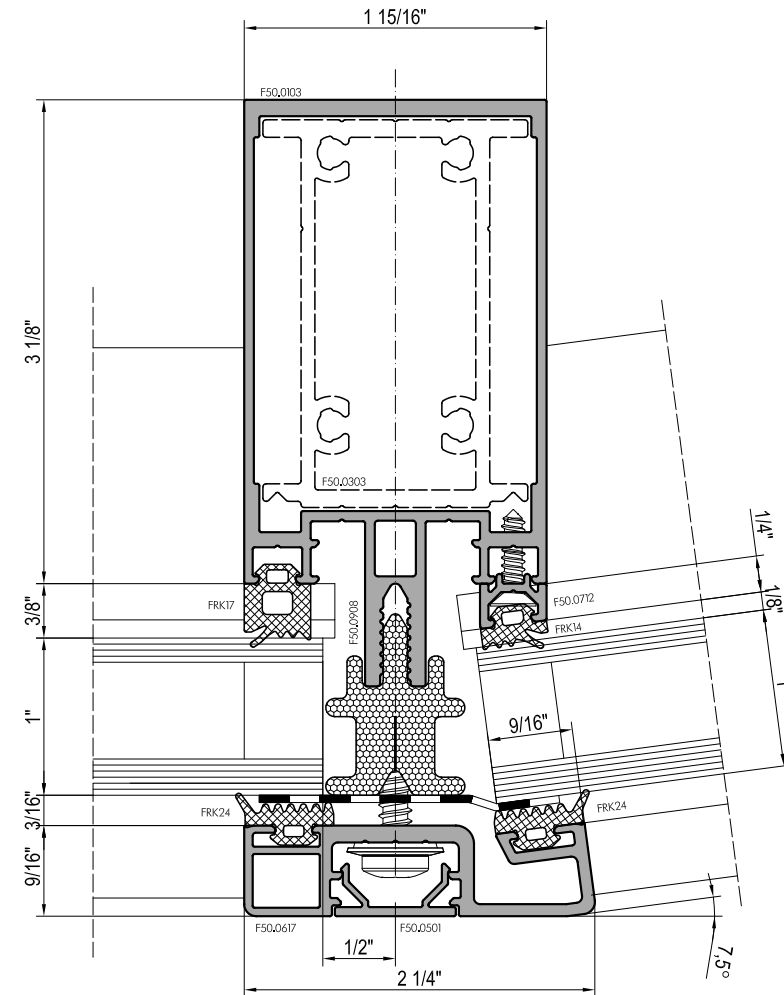
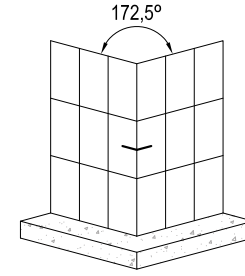
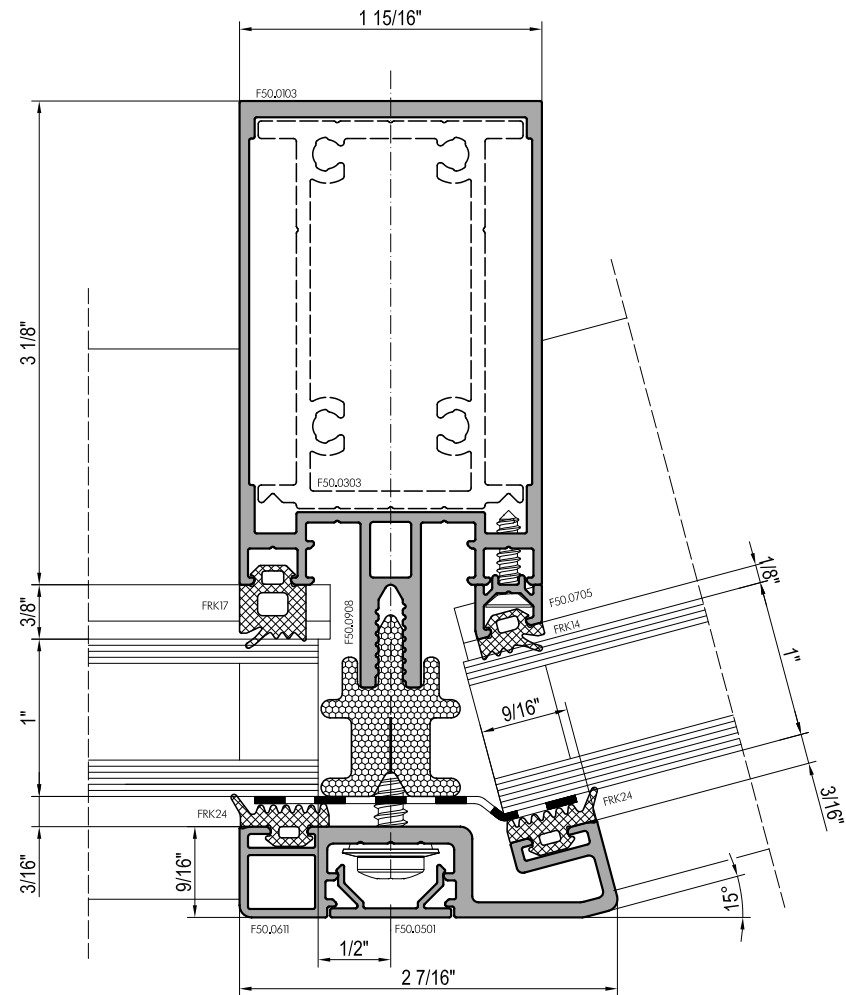
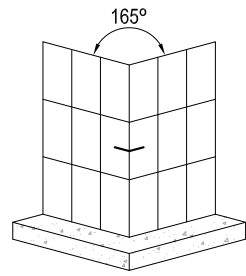


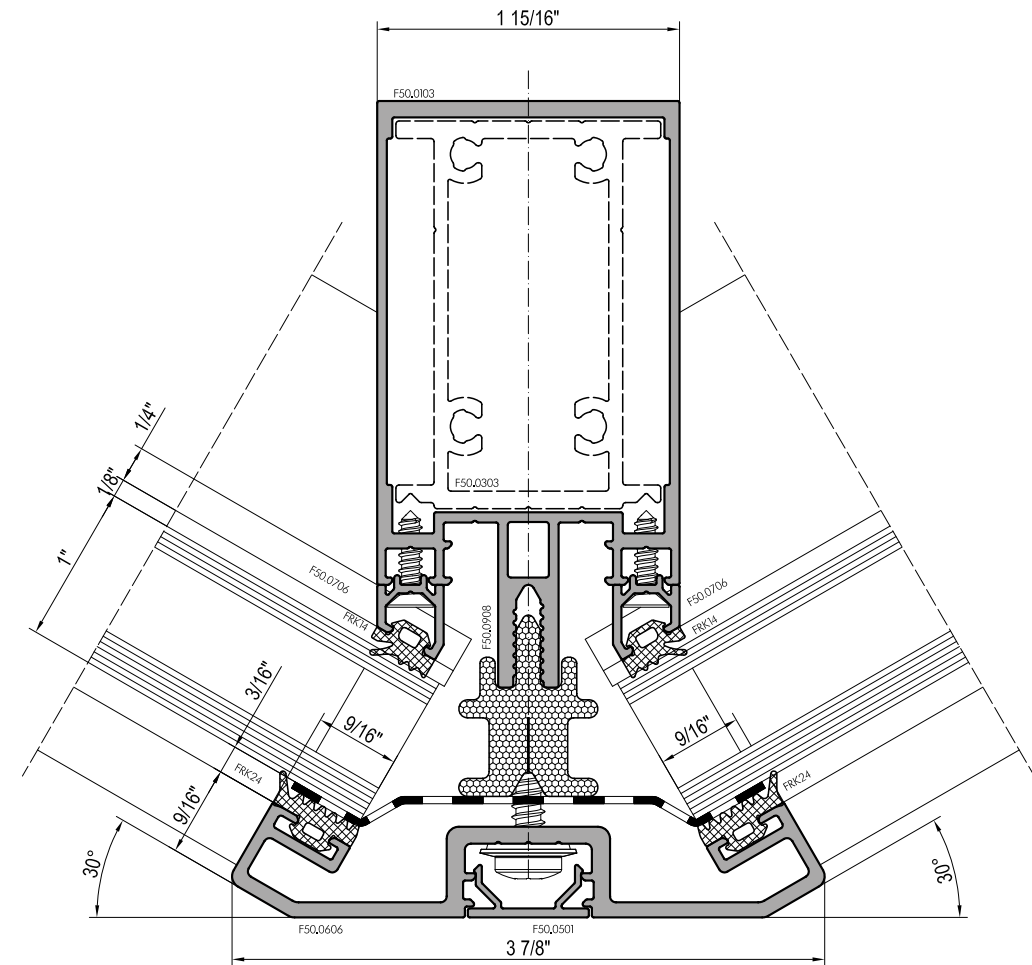
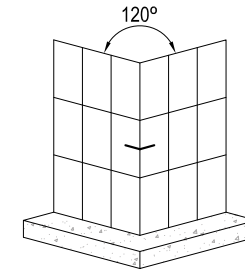
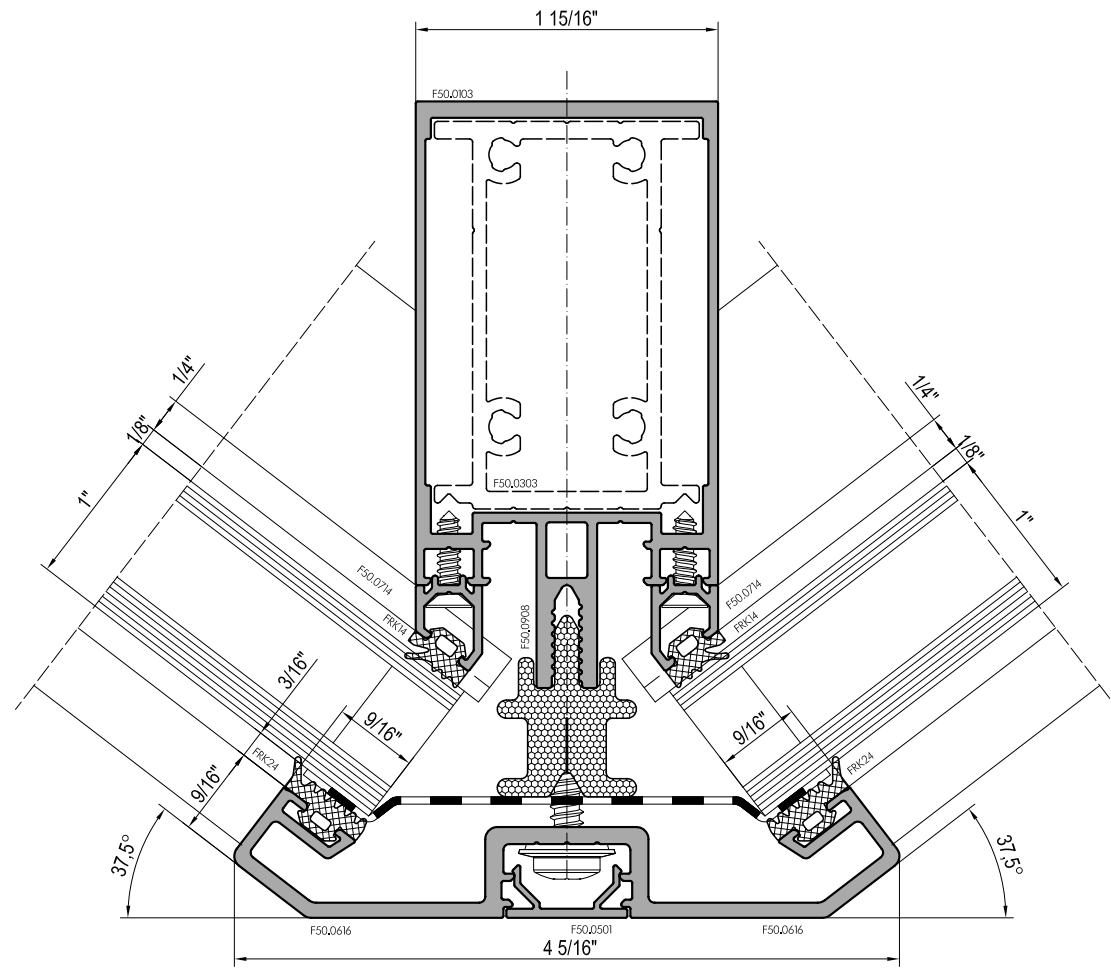
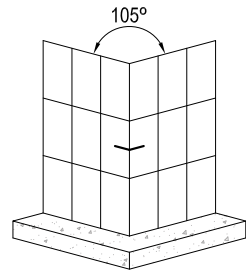


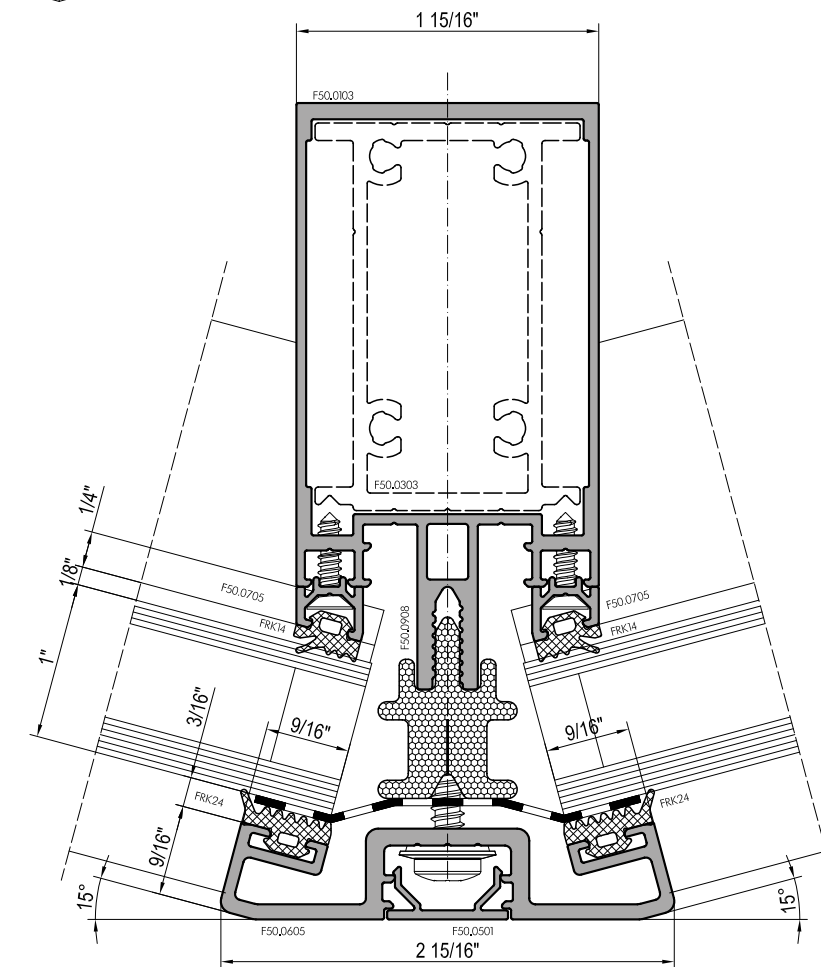
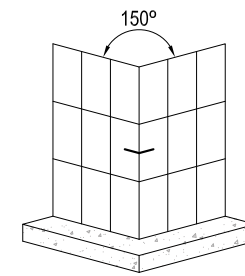
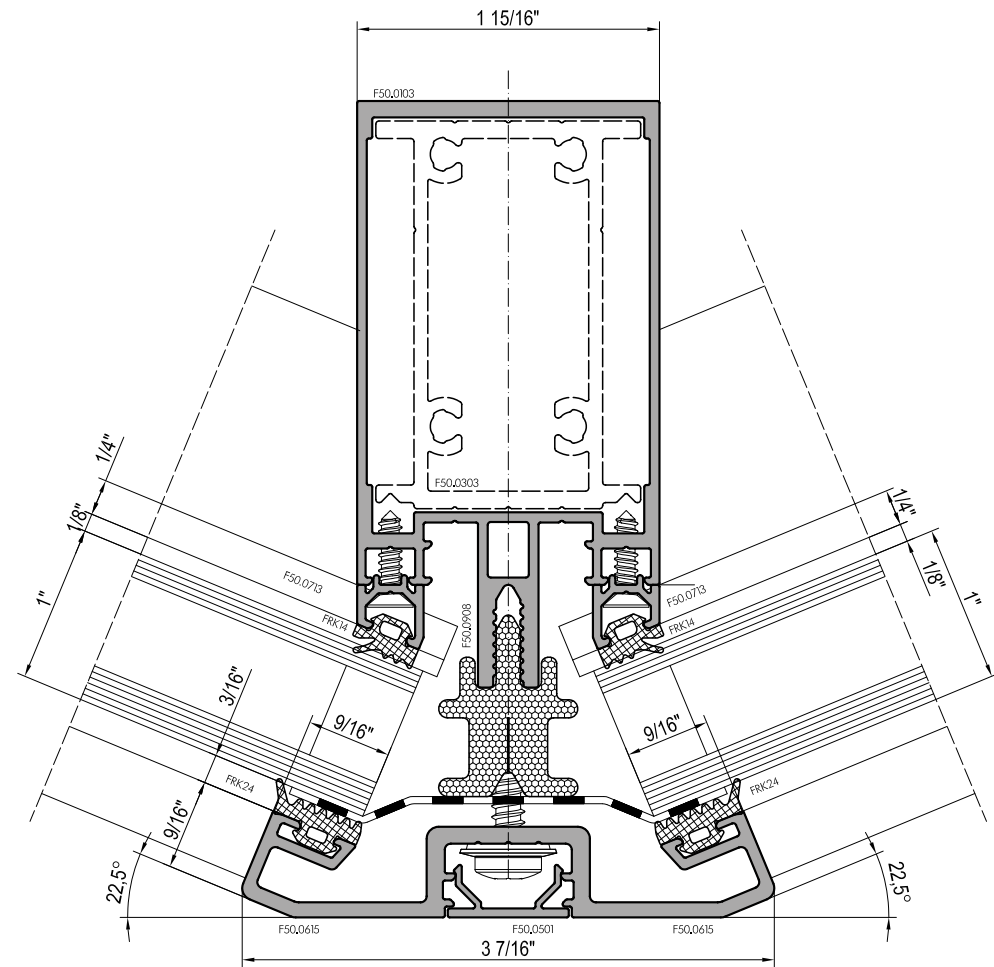
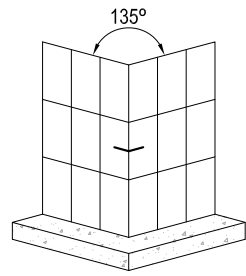


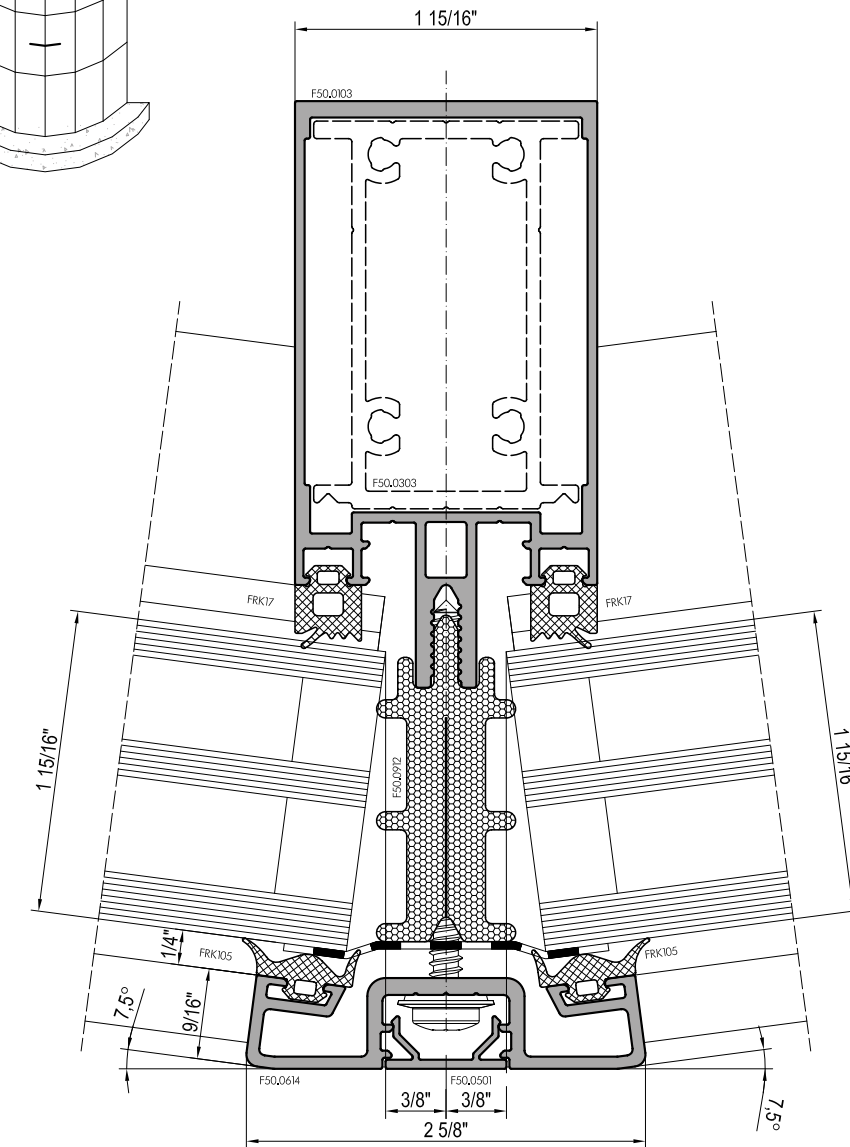
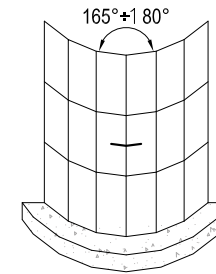
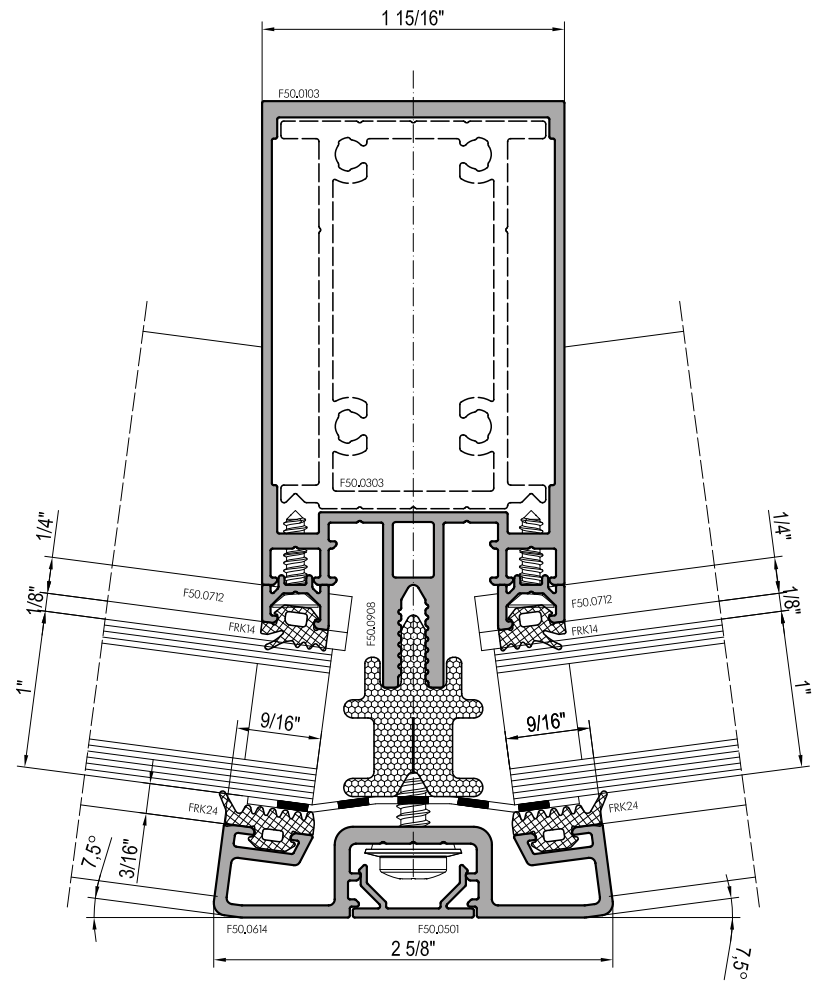
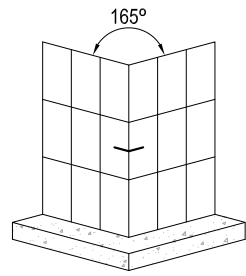


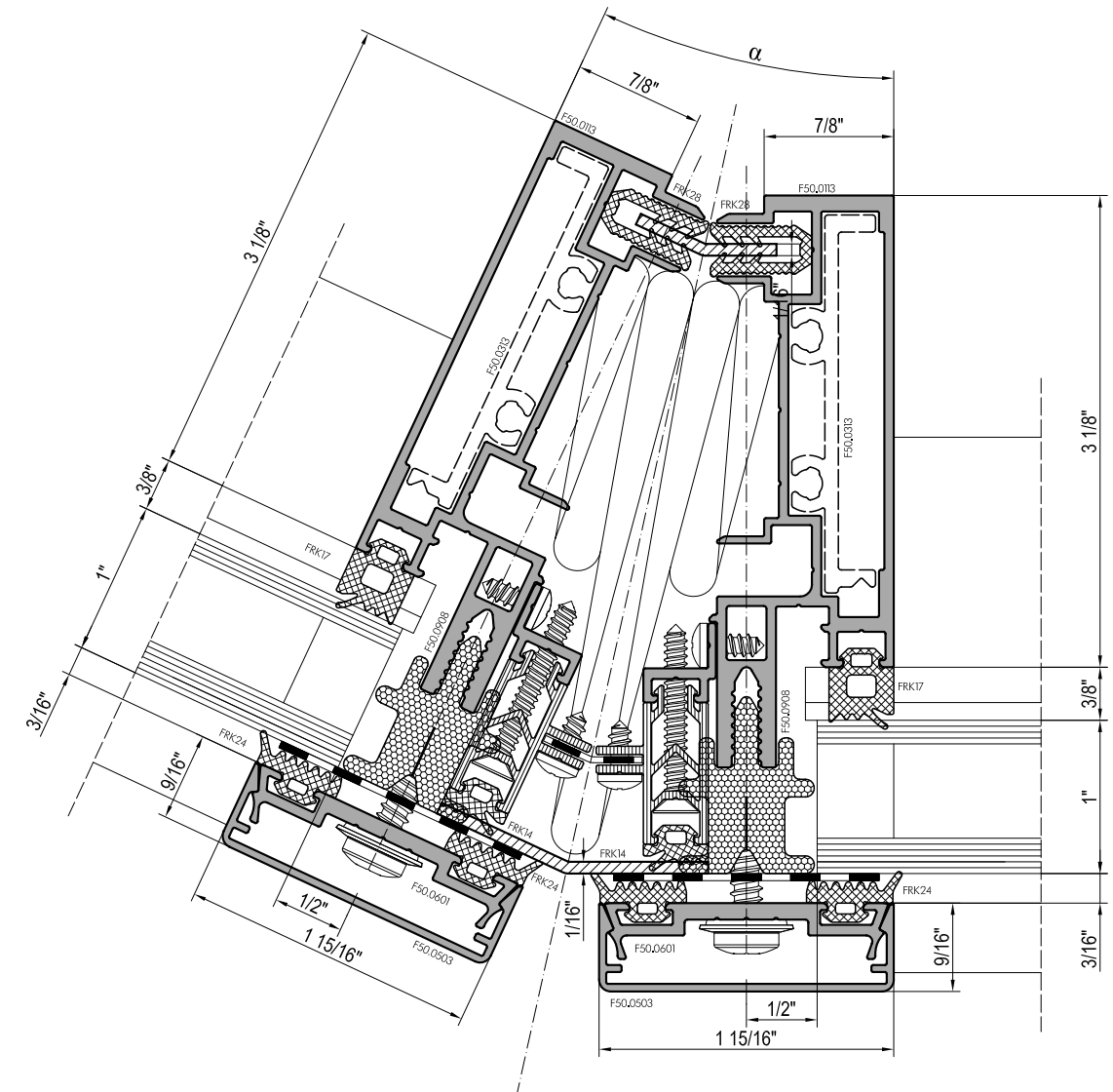
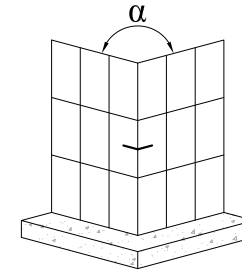
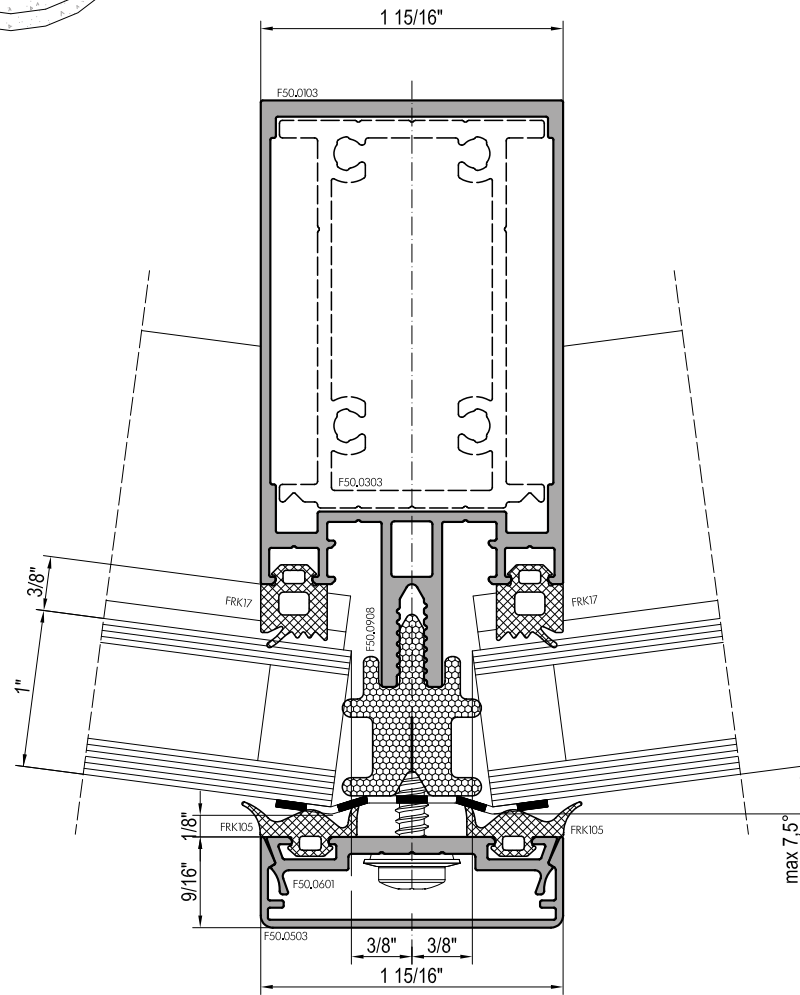
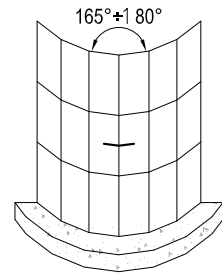


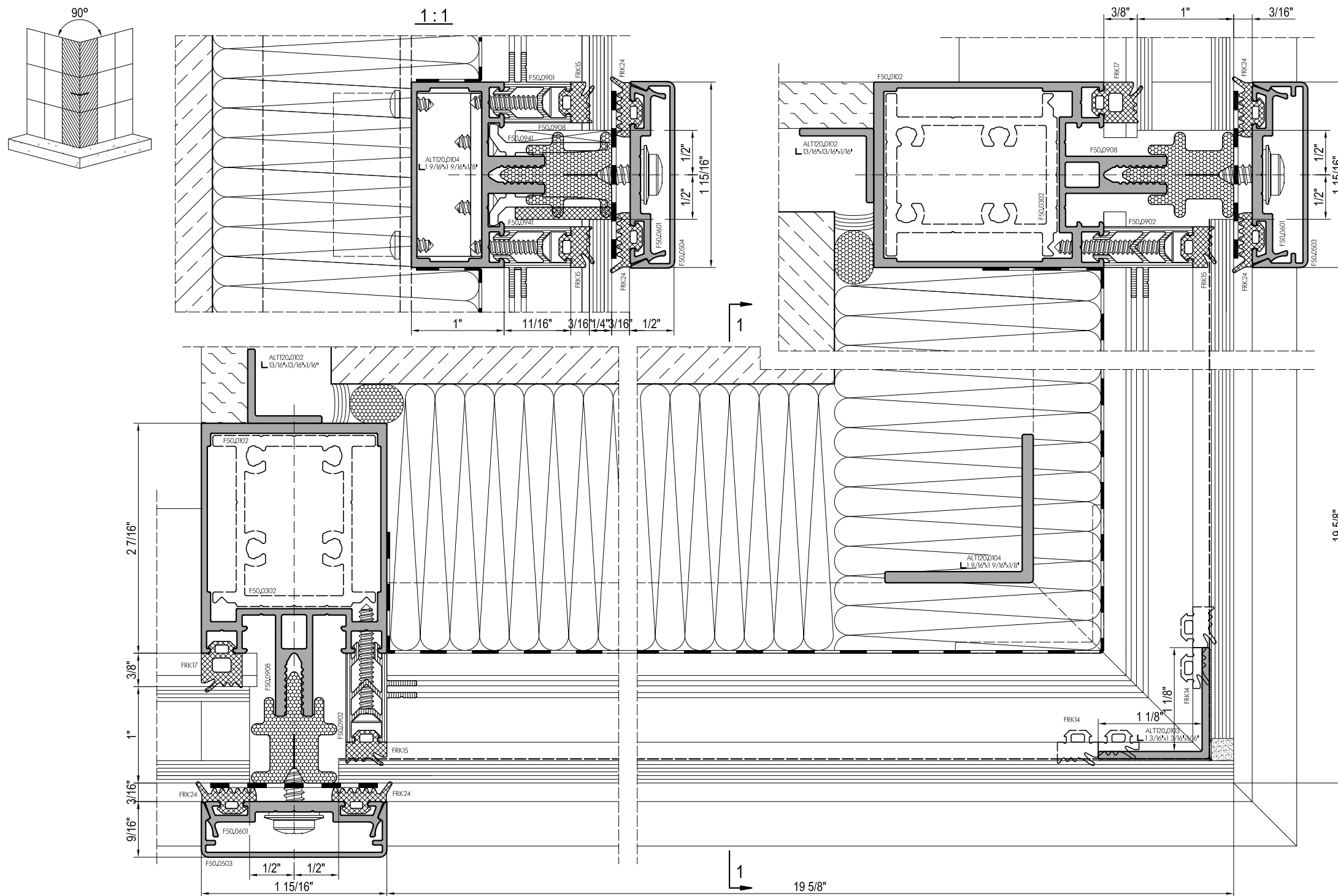


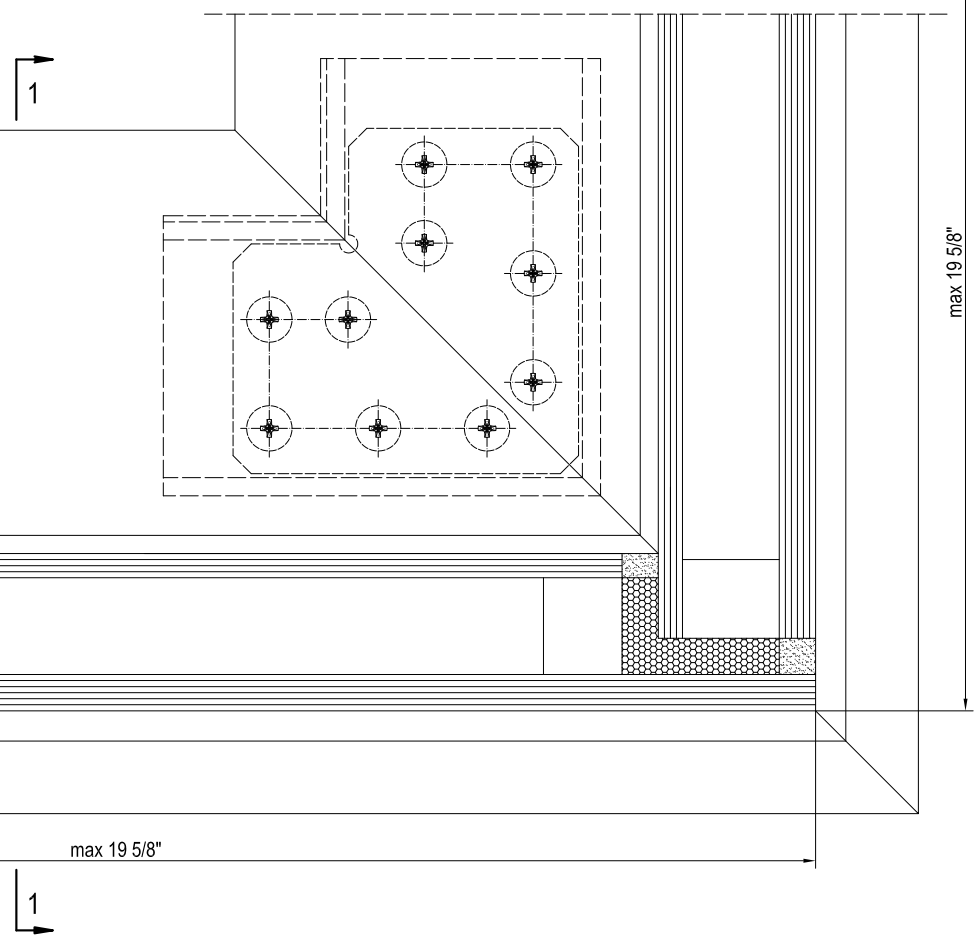
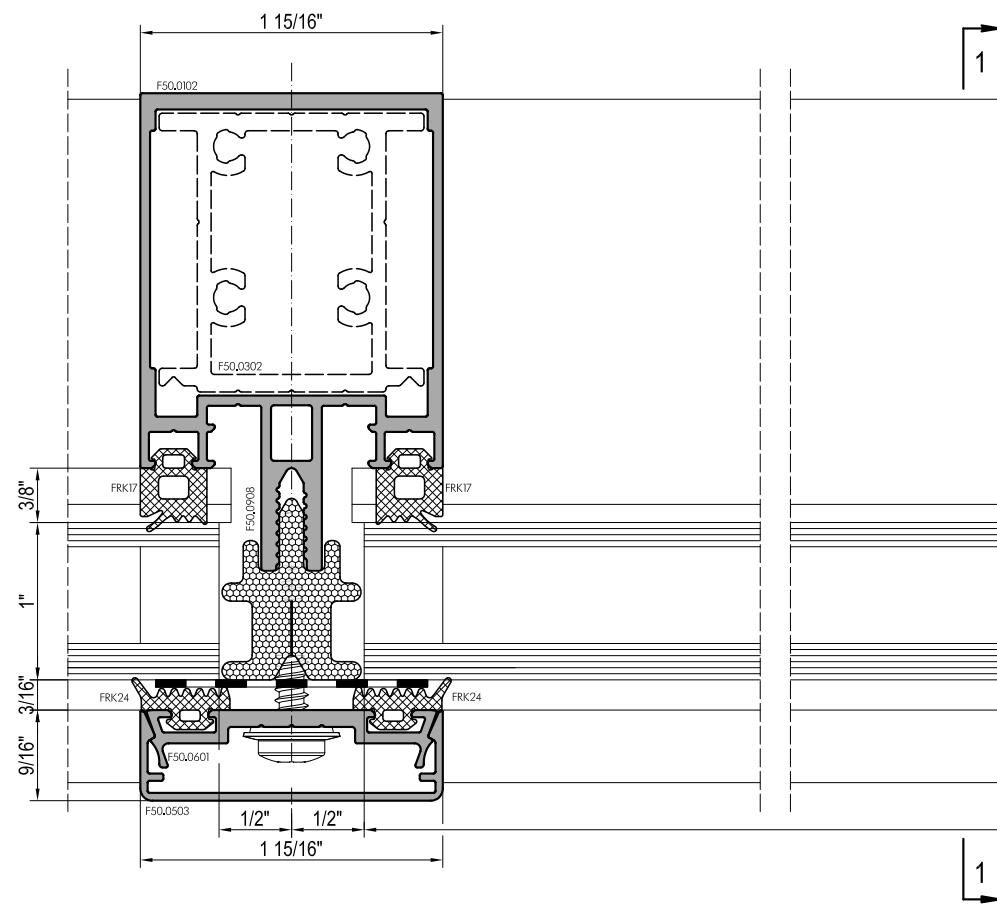
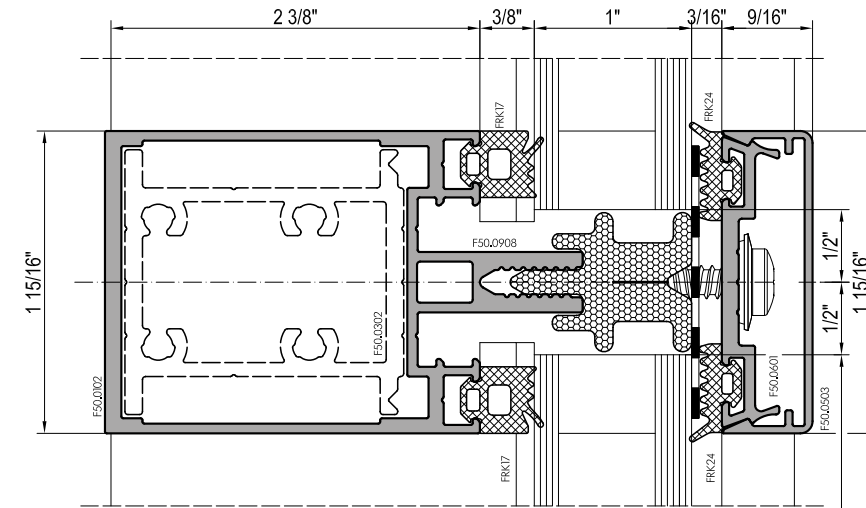
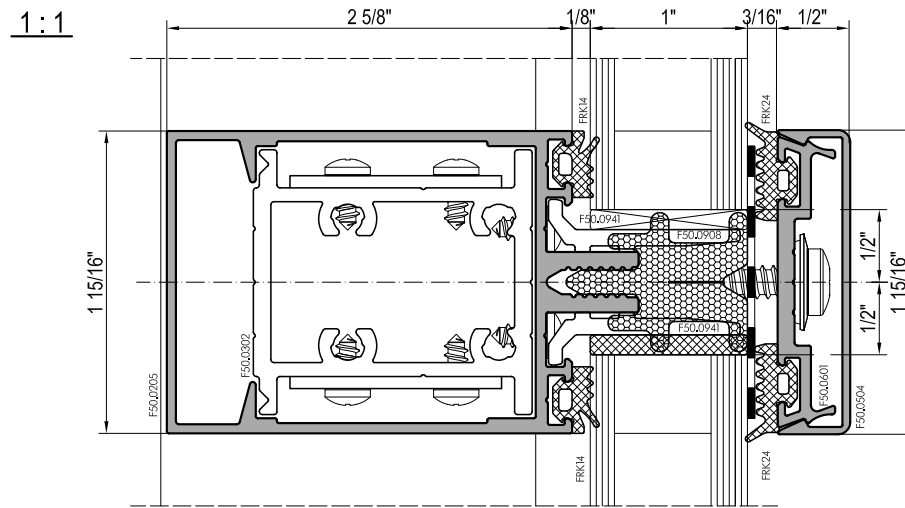
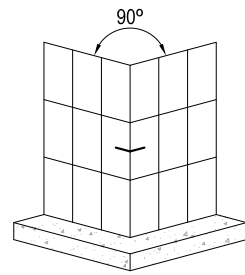


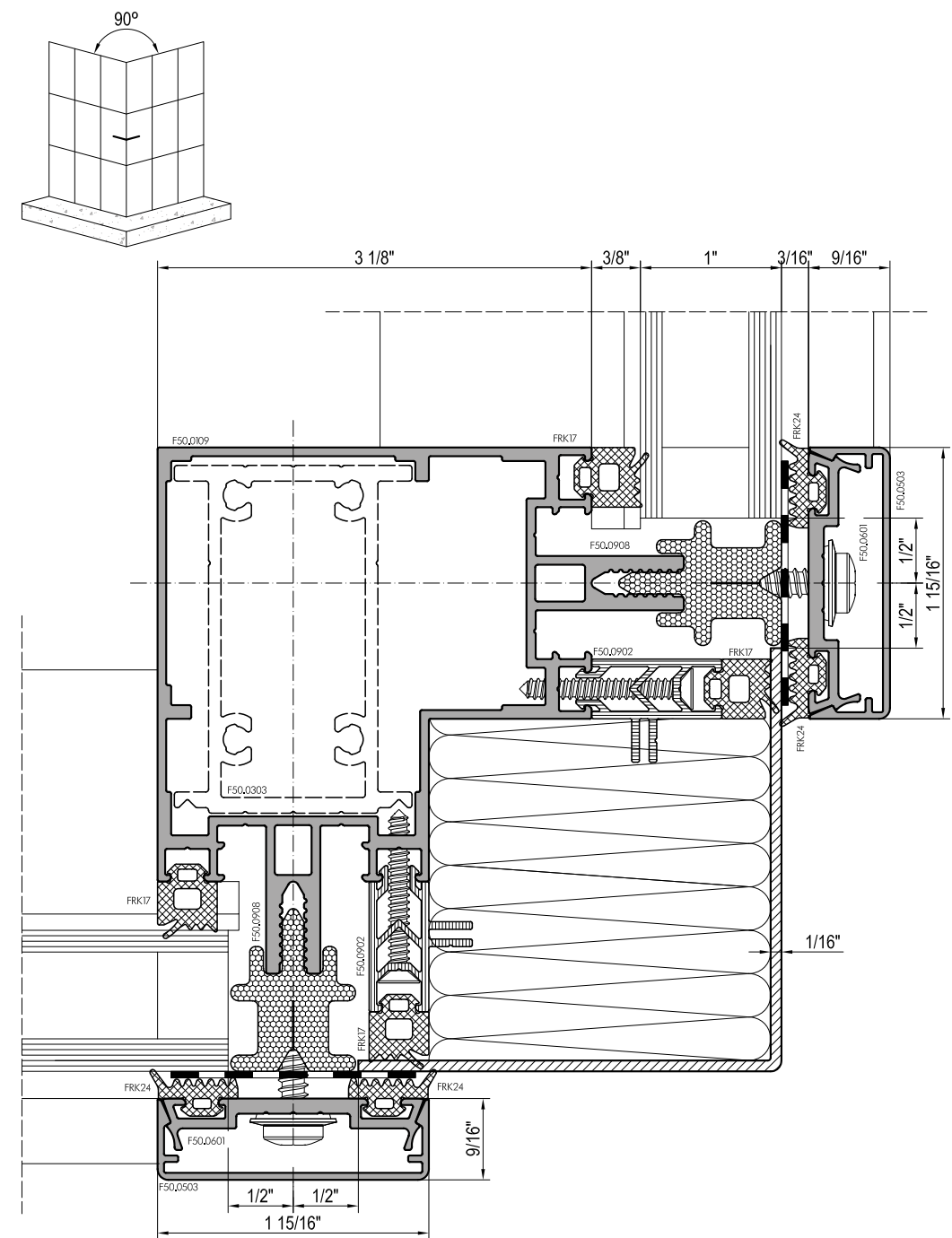
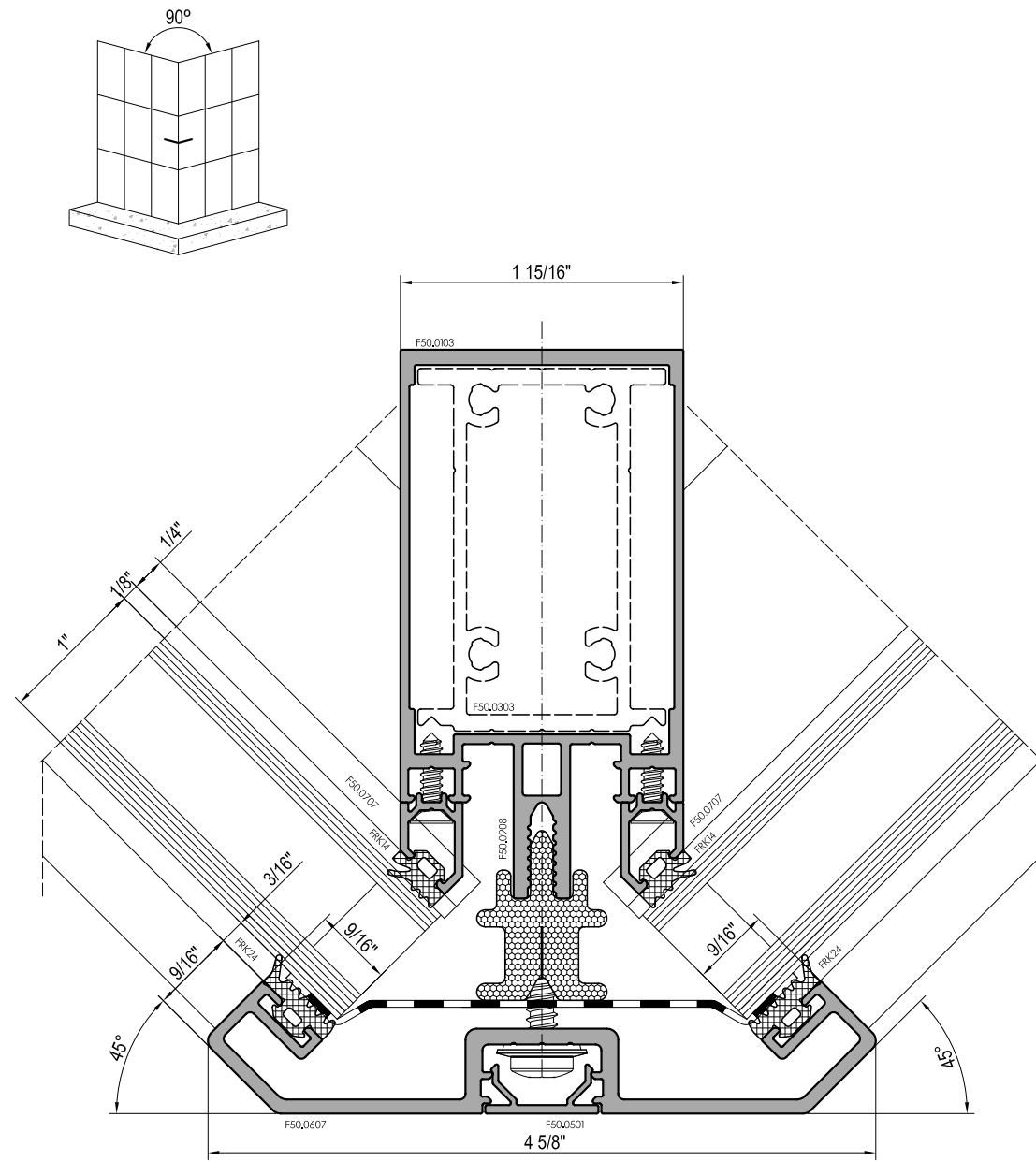




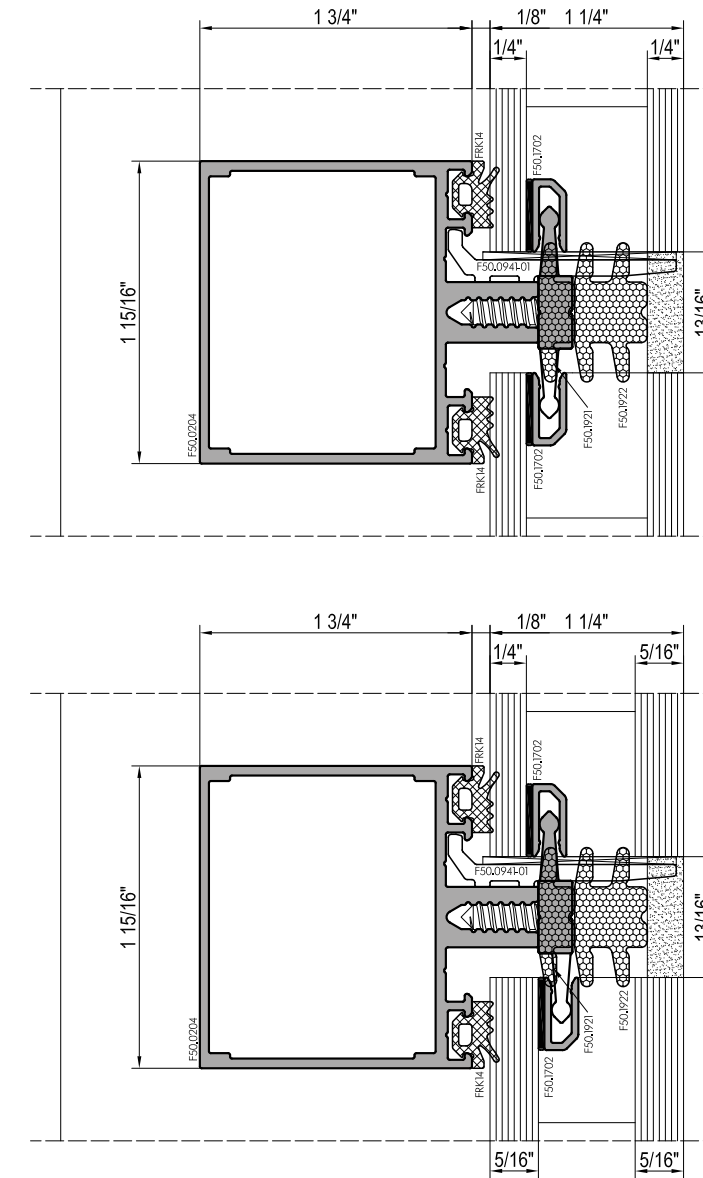
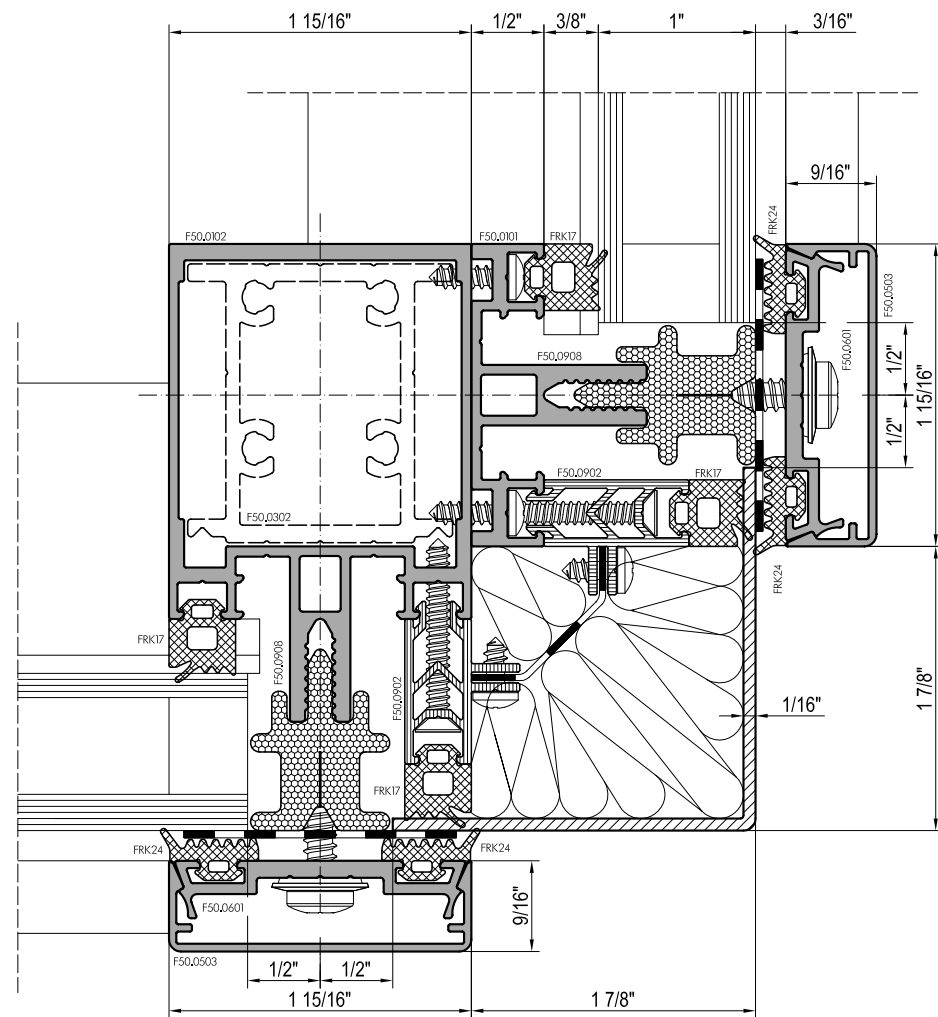
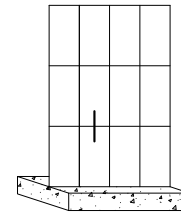
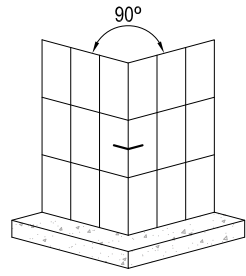


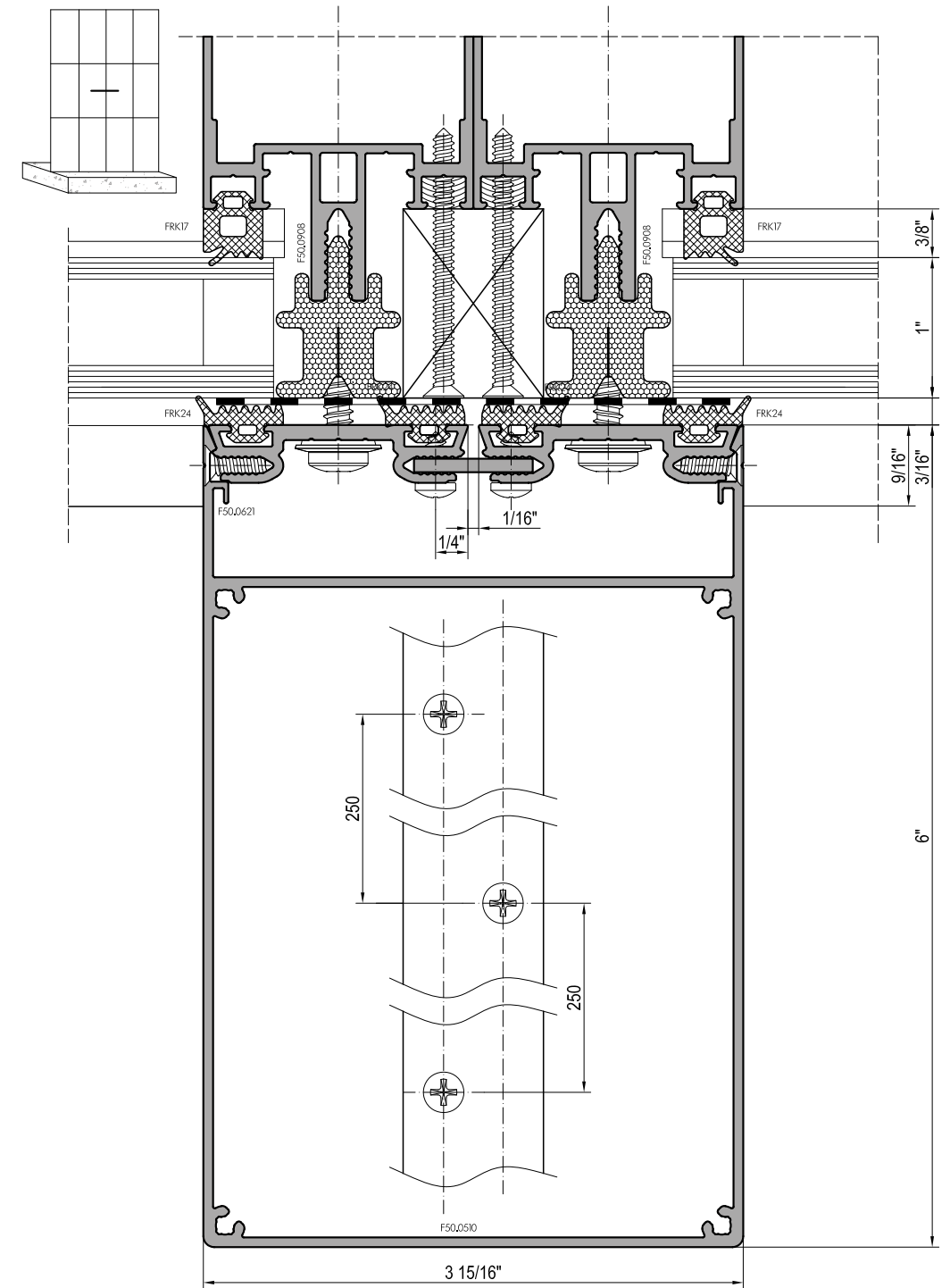
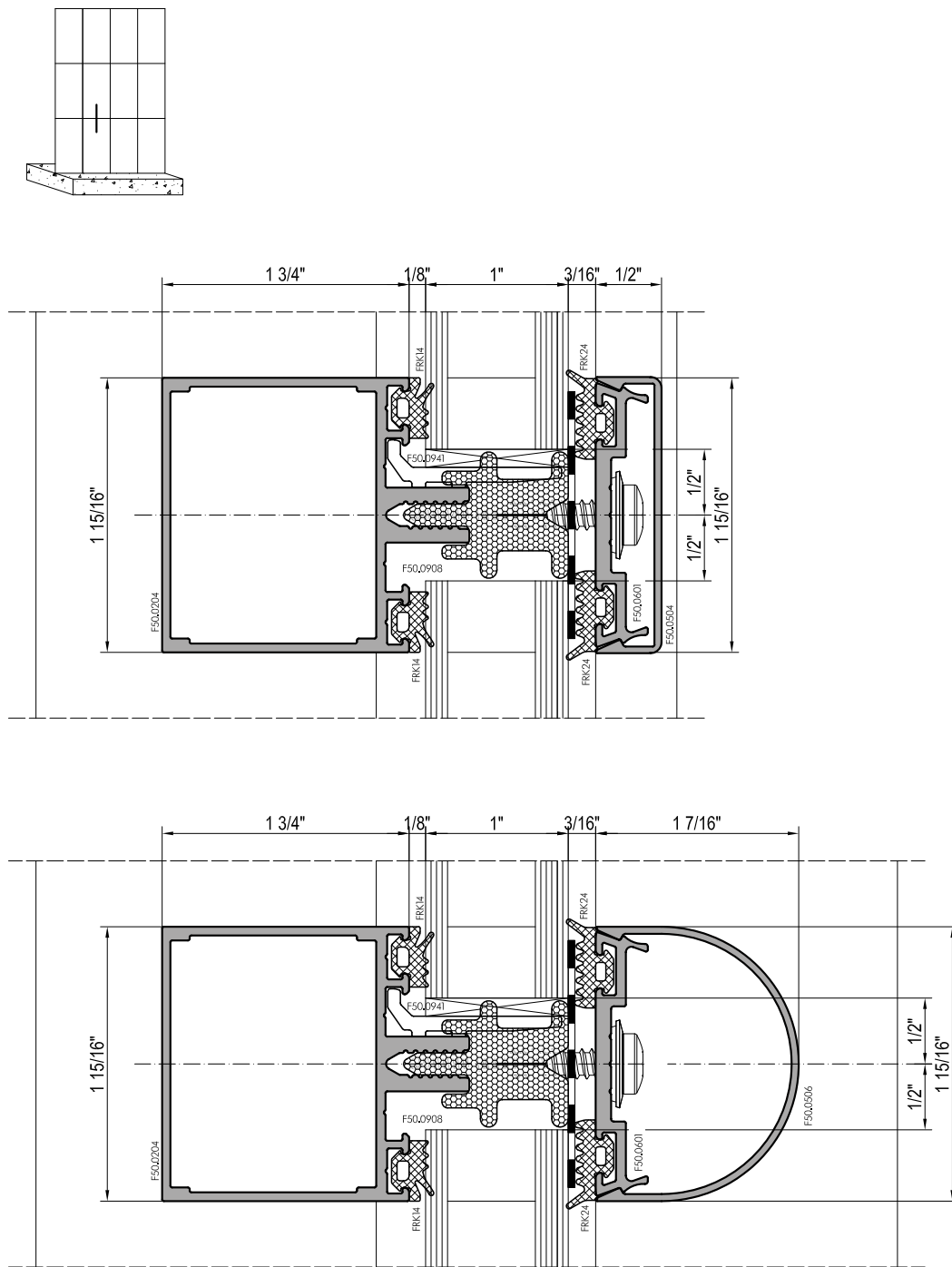


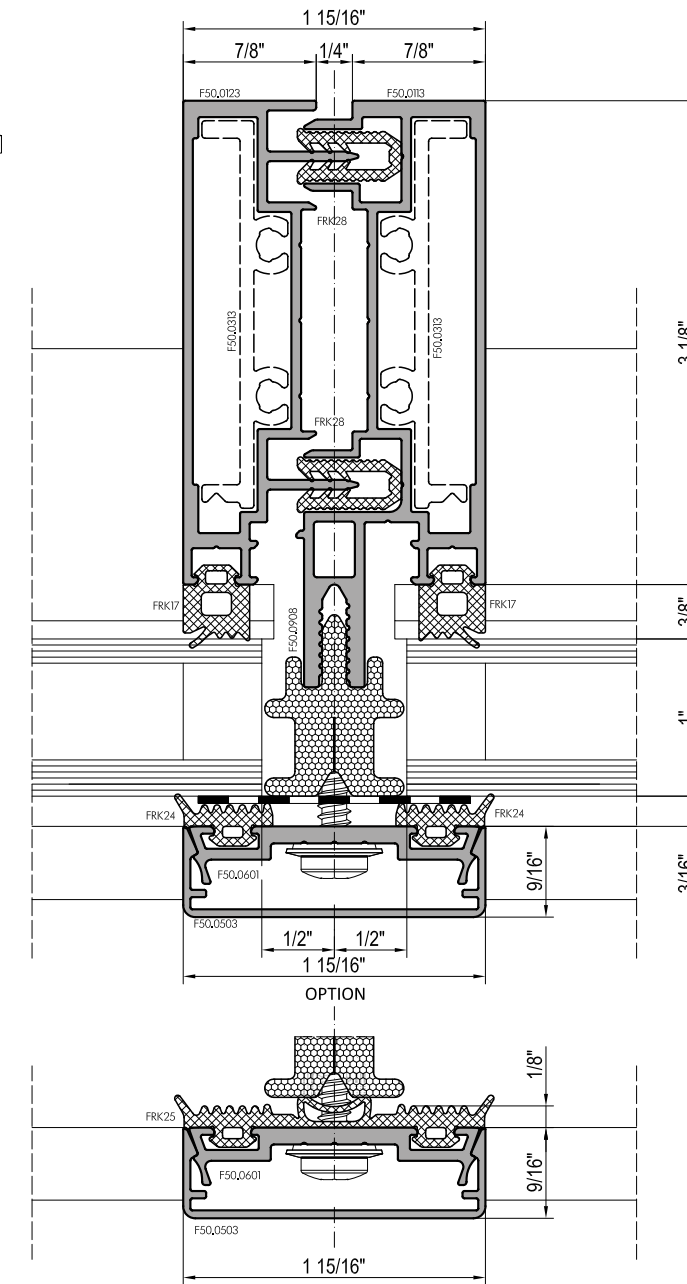
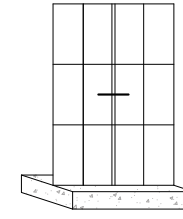
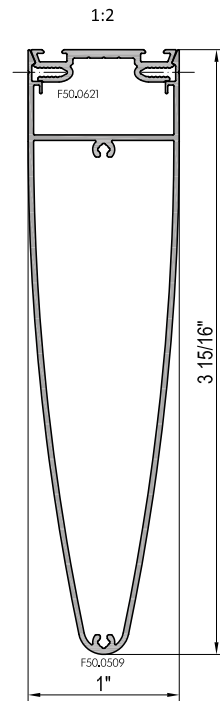
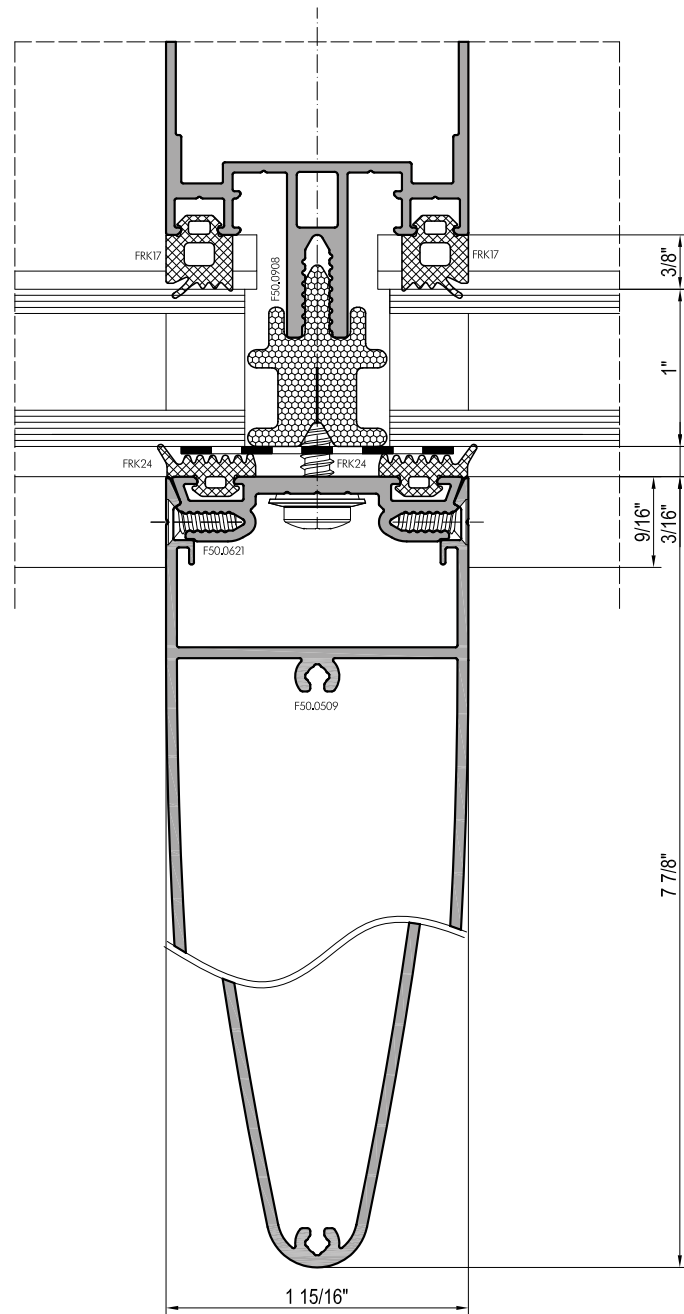
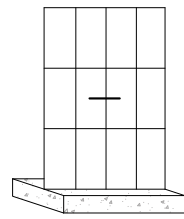


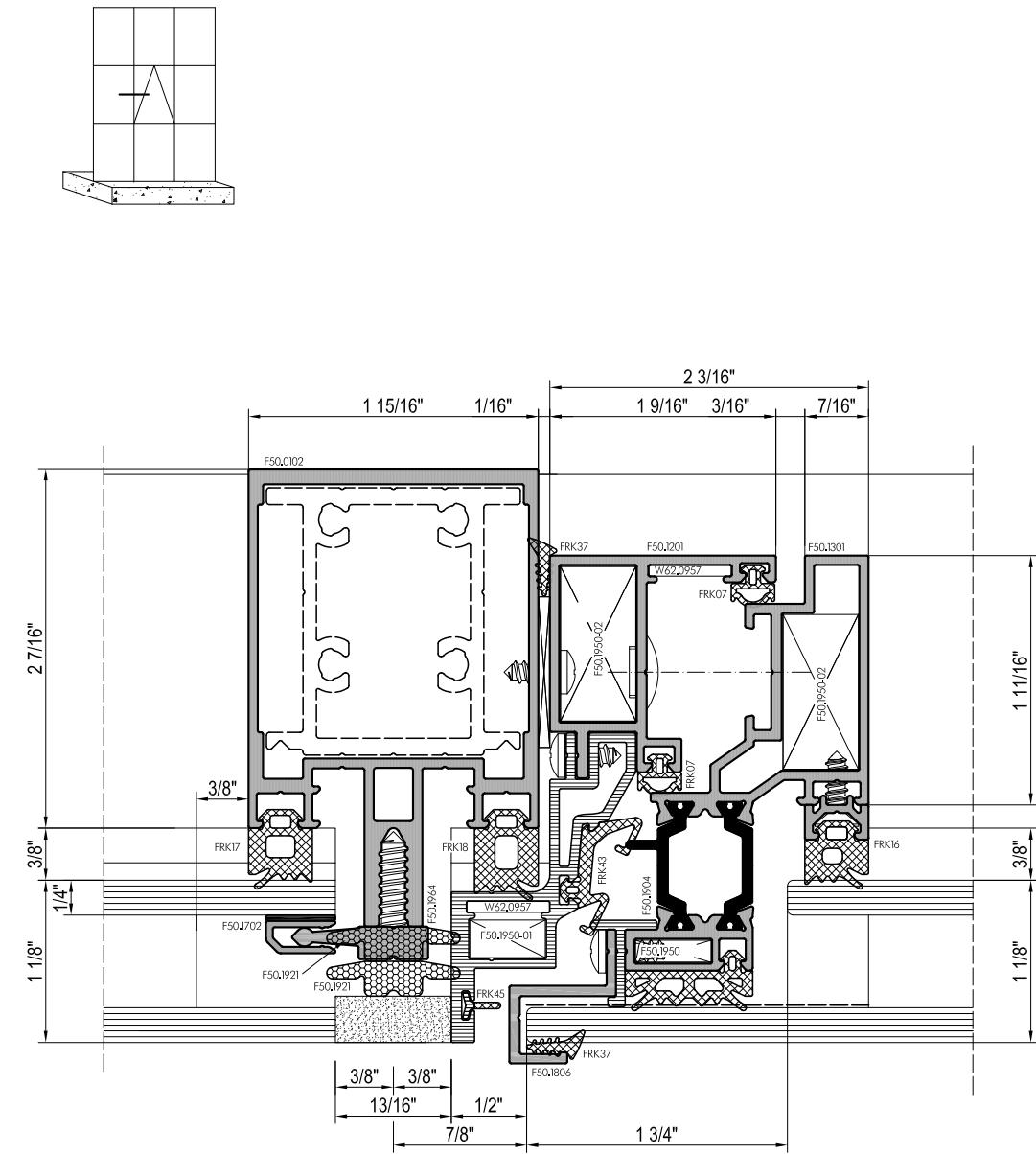
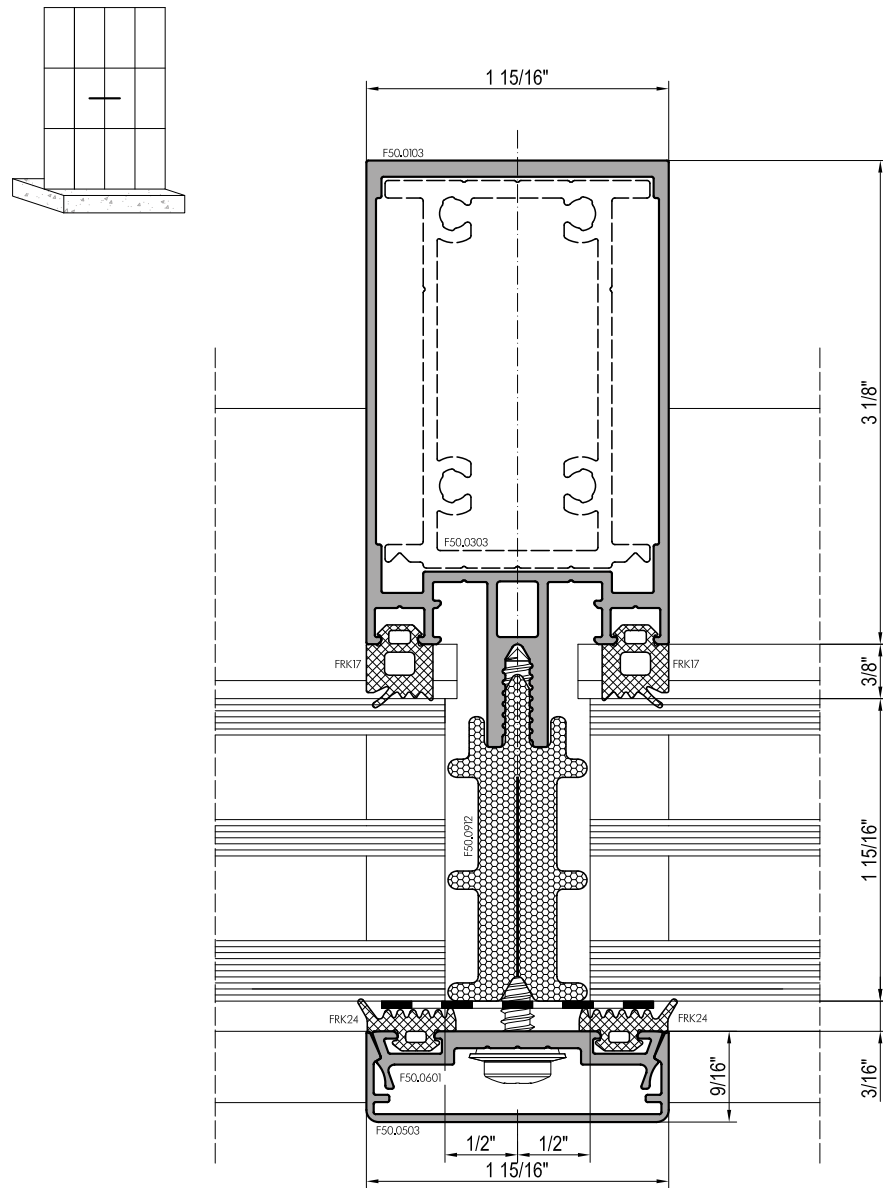




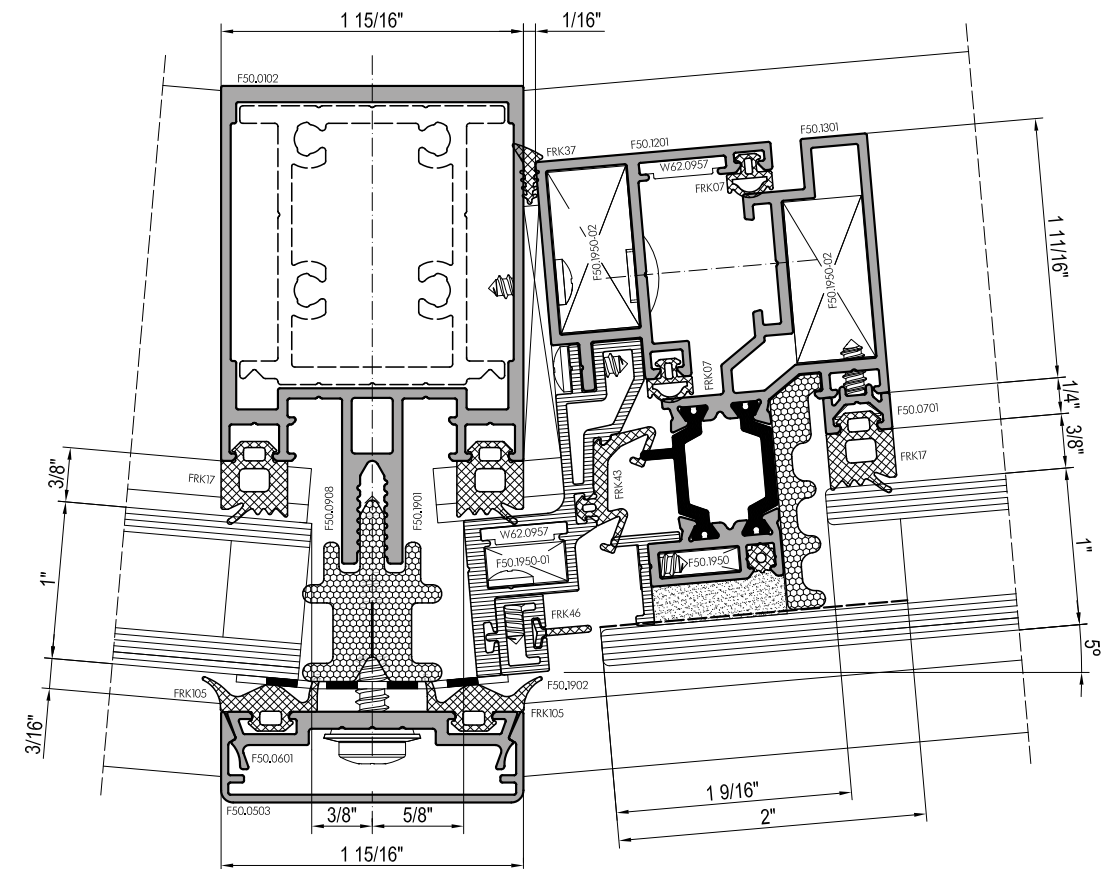
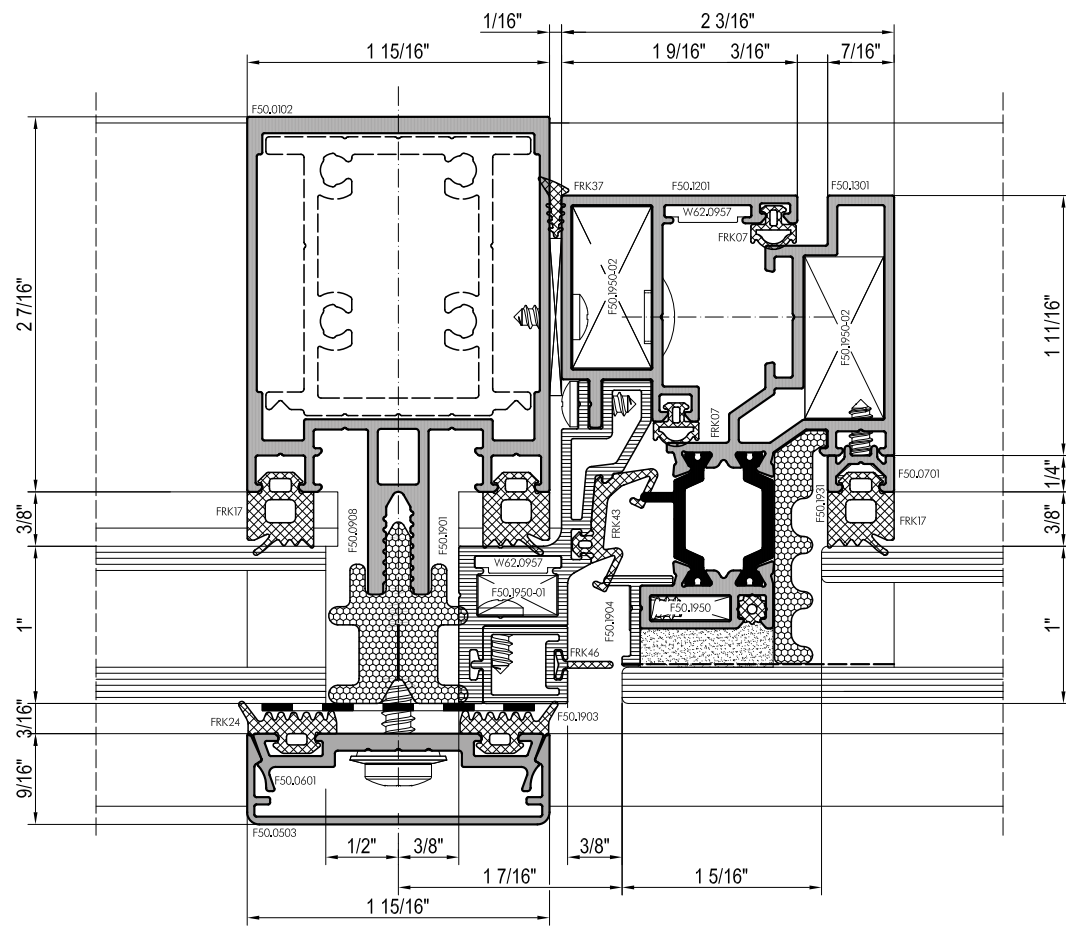
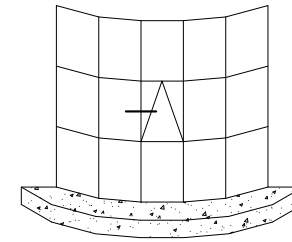
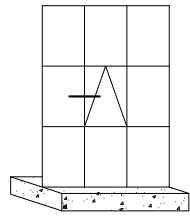


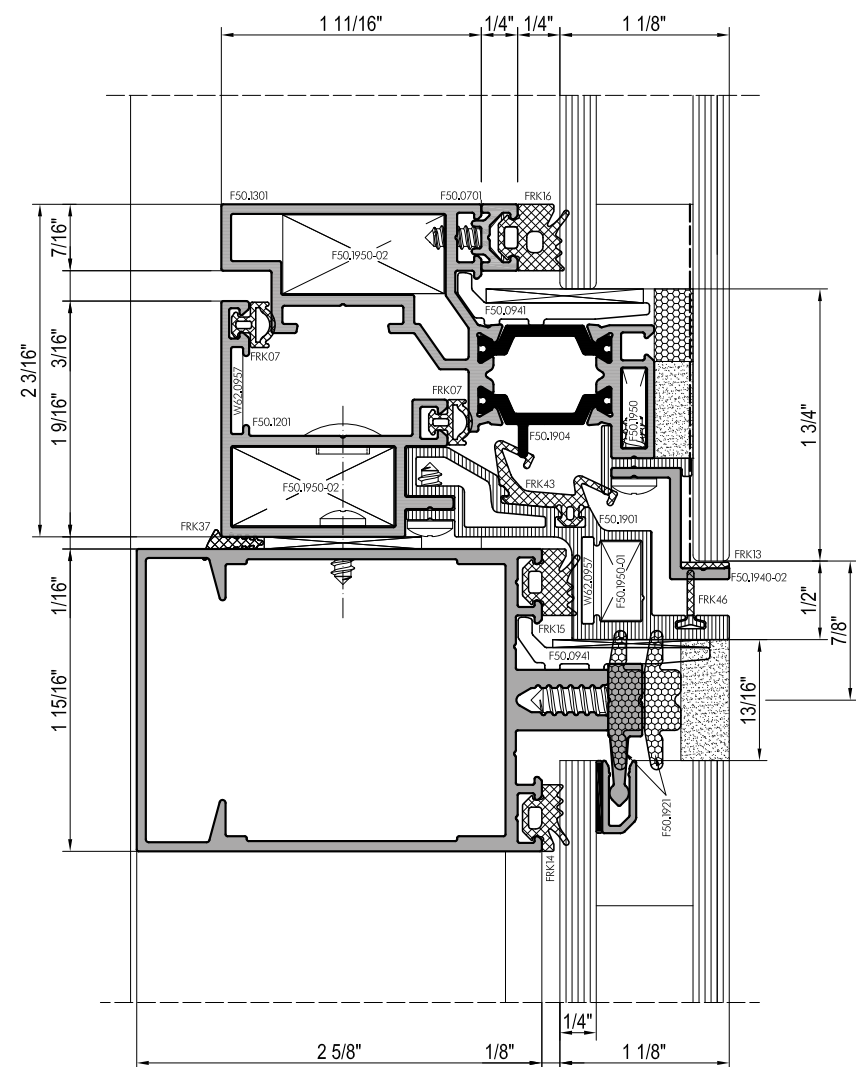
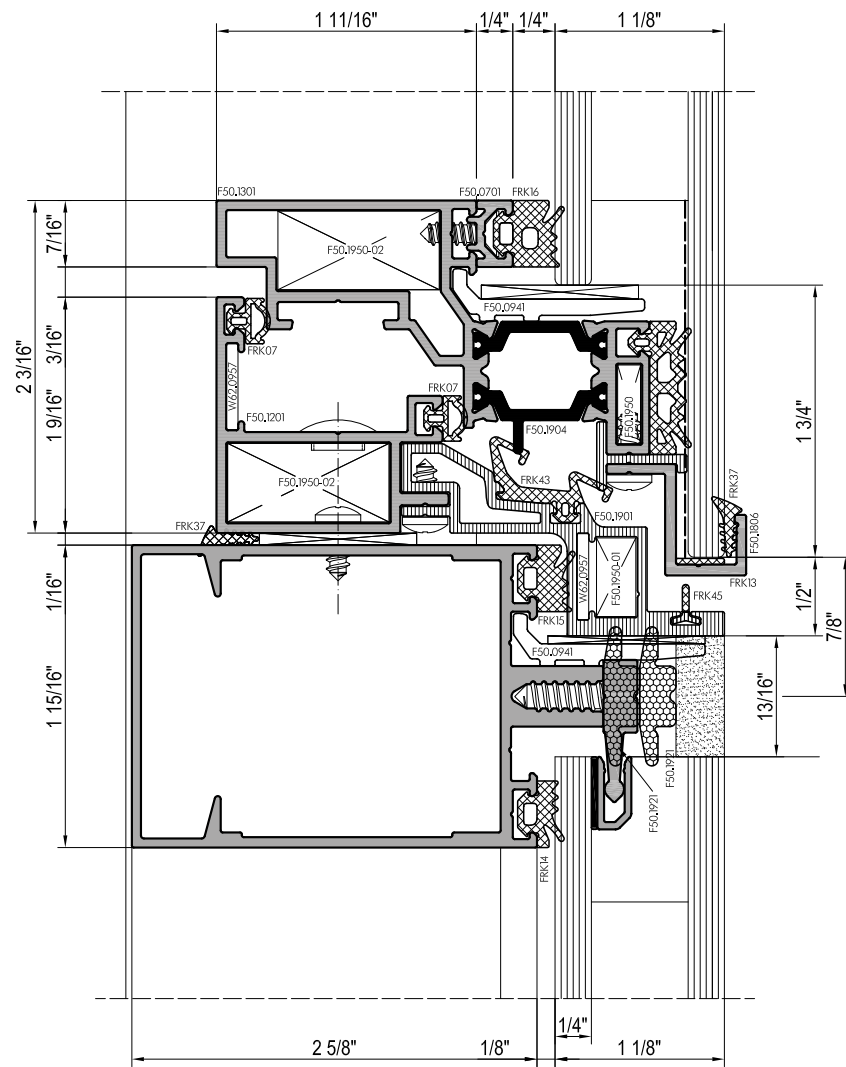
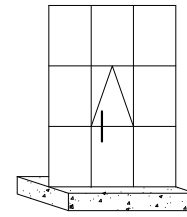
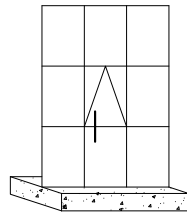


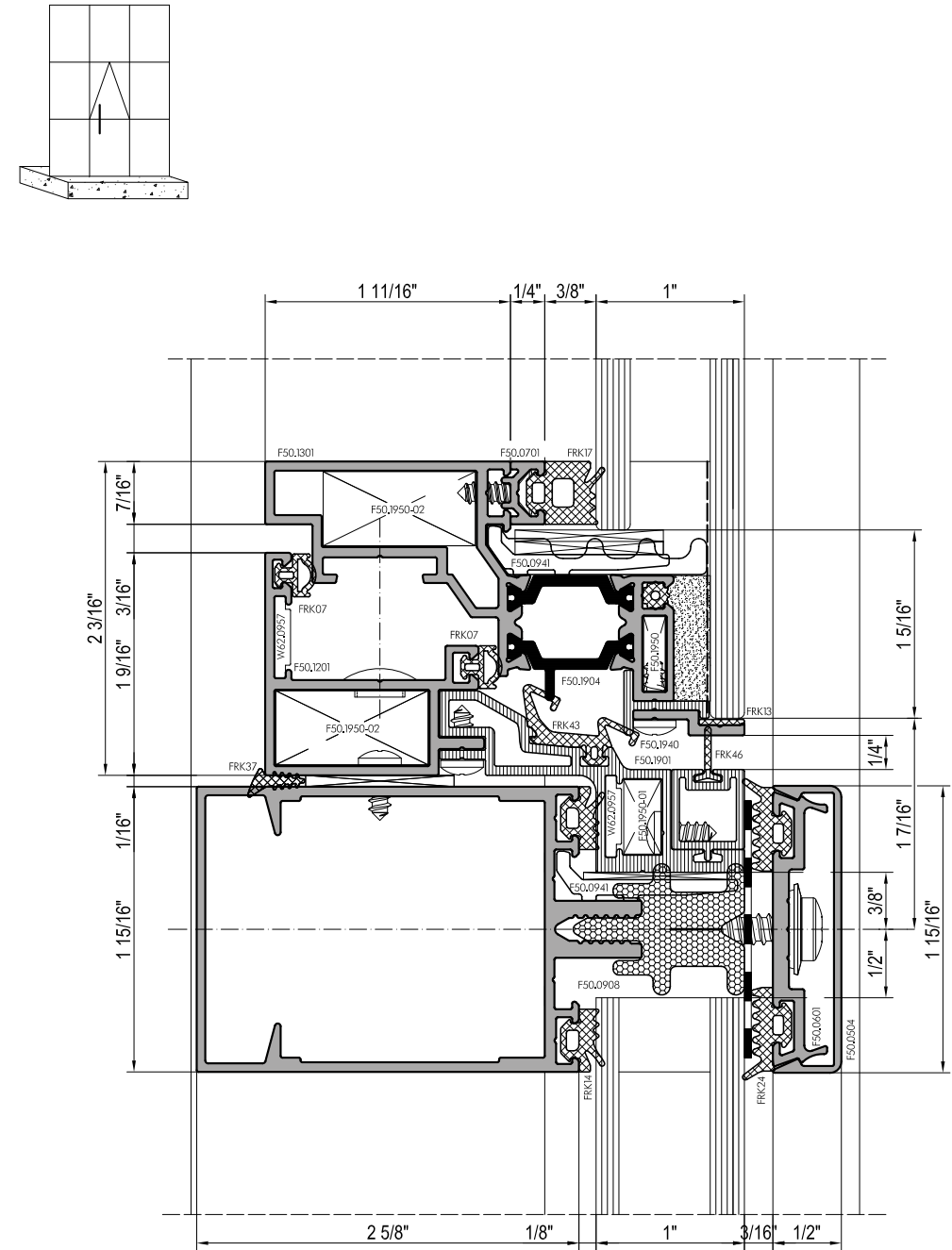
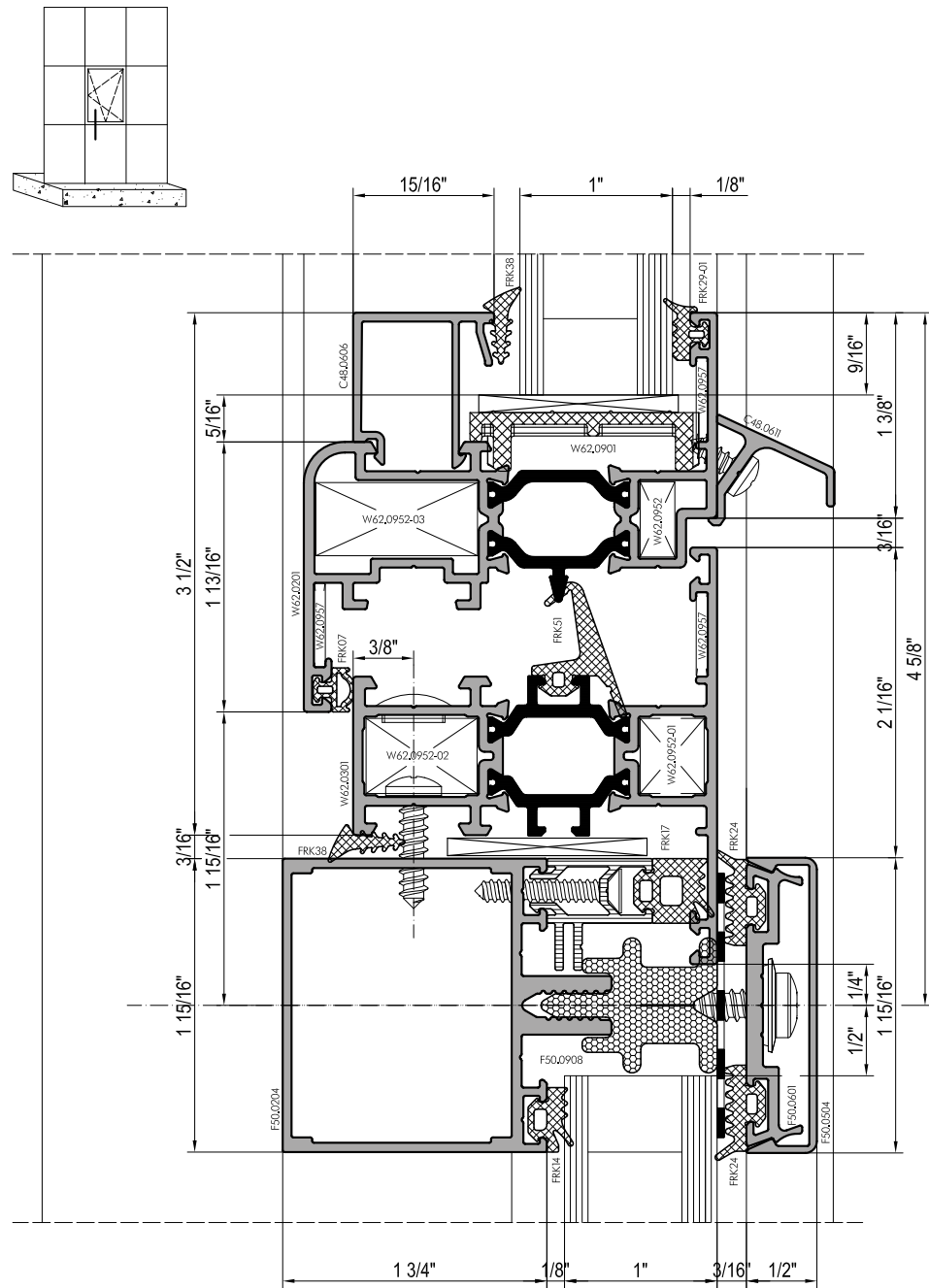














The quality of aluminum moldings' finish is proven by three international certificates: **QUALICOAT**, **SEASIDE** and **QUALANOD**. All AluminTechno's aluminum products distributed by Professional Grade Aluminum, Corp. are either coated with Swiss made materials by IGP that meet or exceed AAMA 2603, or anodized to meet QUALANOD requirements.



**AluminTechno, LLC Production Facility**





