GUTMANN F50++
Curtain Wall Split Systems

GUTMANN –
New dimensions
offer new
perspectives

ALUMINUM SHAPED BY GUTMANN

SYSTEM DESCRIPTION

> Narrow 2-inch (50mm) sightline
> The system is outside pressure glazed, available with captured or SSG, and 2 way structural glazing
> Straight cutting, no transom profile notching: minimal off-cuts, rational manufacture, and installation
> Various system depths to suit most design and load requirements
> Identical widths of inner glass gaskets at mullions and transoms
> The system is outside glazed, available with captured or SSG mullions
> Controlled drainage and ventilation system via a special transom gasket
> Glass Option of 15/16"- 2 1/2 "(24mm- 65mm) insulating glass and 3/8"- 7/8" (10mm-22mm) for single glazed
> Maximum glass loads up to 400-730 kg, depending on wind loads
> Corner mullions available
> Different color options are available
> Proprietary gasket supplies improved thermal performance
> Tested to AAMA, ASTM, and CSA standards

SYSTEM PROPERTIES

Air Infiltration
ASTM E283
0.01 cfm/ft2. @ 6.24 psf (300 pa)

Structural Performance
ASTM E330
up to +/- 60psf (+/- 2880 pa)

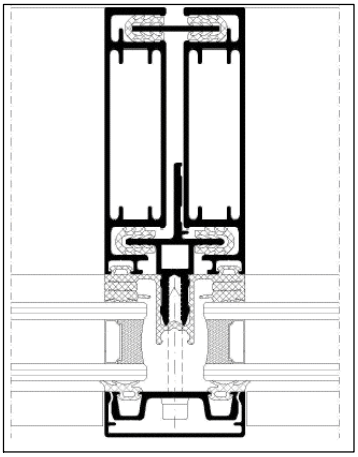
Air Water Infiltration
ASTM E331 ASTM 501.1-17
Static
15 psf (720 Pa)
Dynamic
15 psf (720 Pa)

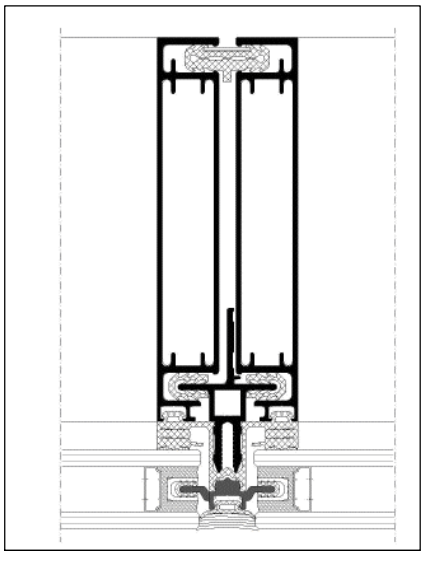
Thermal Transmittance
NFRC 100
0.18 (DG)-COG-0.10 with Aluminum Spacer
This value may vary according to glass choice, framing configuration, and spandrel to vision ratios

OPTIONAL FEATURES

> Split system has heavy-weight mullion available 2" x 6 1/8" (50 mm x 155 mm) system integrates with standard GUTMANN windows and doors

SYSTEM CROSS SECTION





General Construction Notes

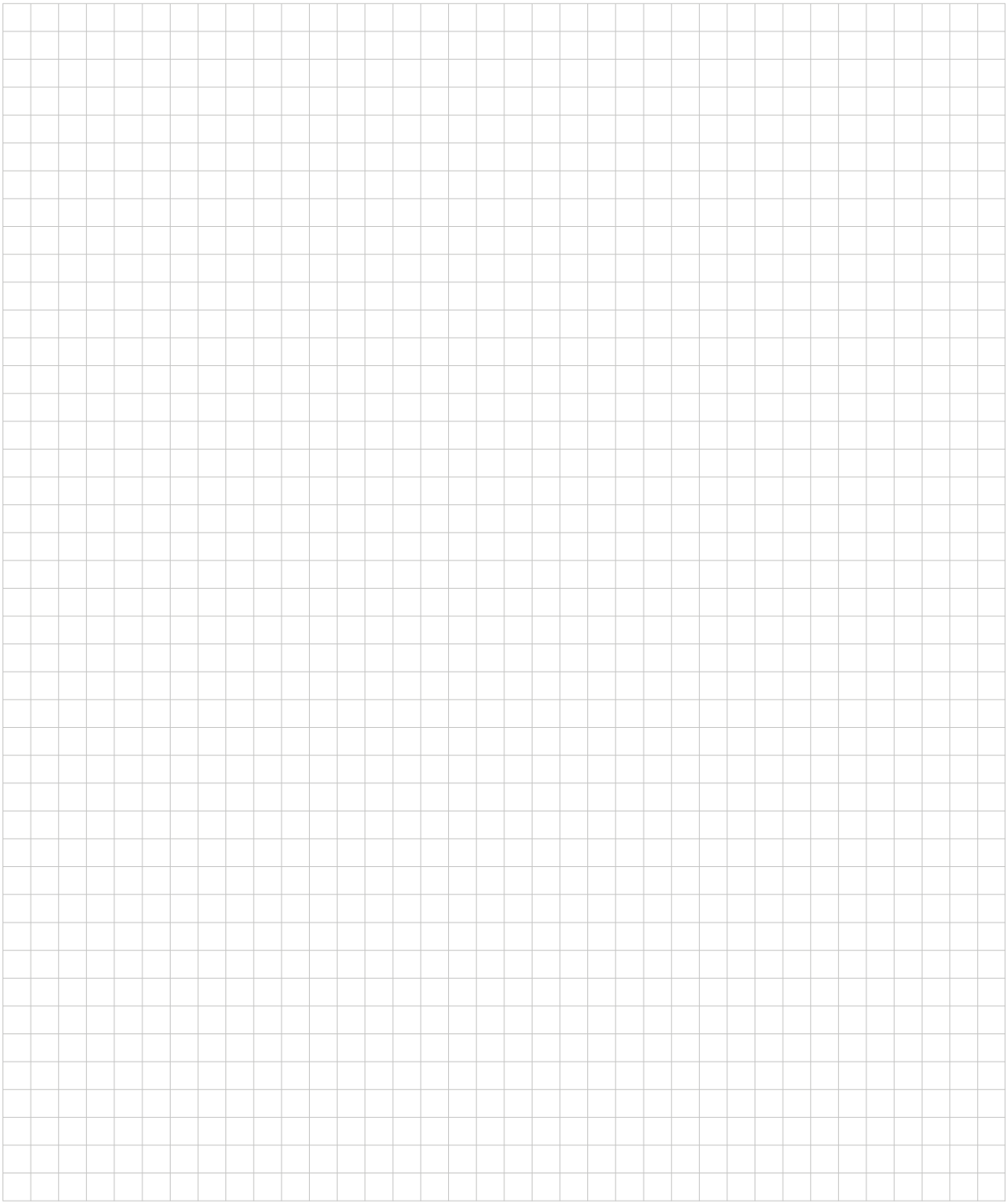
HANDLING, STORAGE AND PROTECTION OF ALUMINUM

The following precautions are recommended to protect the material against damage.
Following these precautions will help ensure early acceptance of your products and workmanship.

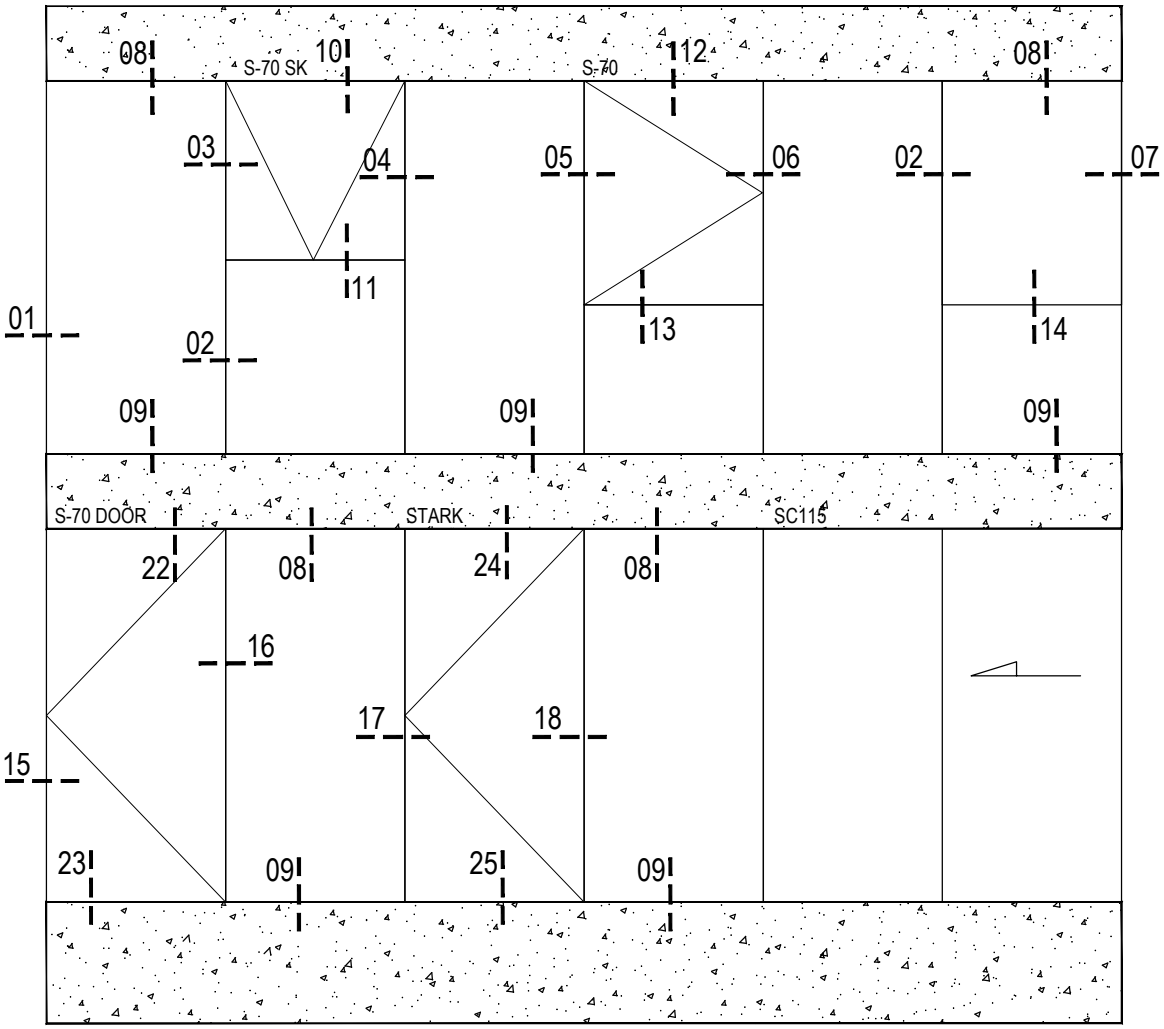
1. **HANDLE CAREFULLY.**
   All aluminum materials at job site must be stored in a safe place, well removed from possible damage by other trades. Cardboard wrapped or paper interleaved materials must be kept dry.
2. **CHECK ARRIVING MATERIALS.**
   Check all shipments from Gutmann immediately upon receipt thereof. Check for damage, count and quantities and keep records of where various materials are stored. Inform your Gutmann service representative immediately of errors, omission, questionable quality or damage.
3. **KEEP MATERIALS AWAY FROM WATER, MUD, AND SPRAY.**
   Prevent cement, plaster or other materials from damaging the finish.
4. **PROTECT THE MATERIALS AFTER ERECTION.**
   Protect erected frame with polyethylene or canvas splatter screen. Cement, plaster, terrazzo, other alkaline solutions, and acid base materials used to clean masonry are harmful the the finish. If any of these materials come in contact with the aluminum, IMMEDIATELY remove with water and mild soap.

1. The F50++ split system is intended for installation by professional glazing contractors with appropriate experience. We expect that you are familiar with, and have installed products of same and similar type.
2. These instructions cover typical product application,fabrication, installation and standard conditions and are general in nature. They provide useful guidelines, but the final shop drawings may include additional details specific to the project. Any conflict or discrepancies must be clarified prior to execution. The shop drawings will take precedence over these instructions as they are project specific.
3. Engineering Calculations and shop drawing review should be performed by a professional engineer.
4. Materials stored at the job site must be kept in a safe place protected from possible damage by other trades. Stack with adequate separation so materials will not rub together and store off the ground. Cardboard or paper wrapped materials must be kept dry. Check arriving materials for quantity and keep a record of where various materials are stored.
5. Coordinate protection of installed work with general contractor and/or trades.
6. Coordinate sequence of other trades which affect framing installation with the general contractor.
7. General contractor should furnish and guarantee bench marks, offset lines and opening dimensions. These items should be checked for accuracy before proceeding with erection. Make certain that all adjacent substrate construction is in accordance with the contract documents and/or approved shop drawings. If not, notify the general contractor in writing before proceeding with installation because this could constitute acceptance of the adjacent substrate construction by others.
8. Isolate all aluminum to be placed directly in contact with masonry or other incompatible materials with a heavy coat of zinc chromate or bituminous paint. Fasteners attaching framing to building structure are typically not provided by Gutmann.
9. Sealant selection is the responsibility of the erector, installer and/or glazing contractor and must be approved by the sealant manufacturer with regard to application and compatibility for its intended use. All sealants must be used in strict accordance with the manufacturer's instructions and applied only by trained personnel to surfaces that have been properly prepared.
10. Sealant must be compatible with all materials with which they may have contact, including other sealant surfaces. Consult the sealant manufacturer for recommendations relative to shelf life, compatibility, cleaning of substrate, priming, tooling adhesion etc. Recommended sealant manufacturer perform adhesion "pull test" at "wet" glazing for quality assurance.
11. Drainage gutters and weep holes must be kept clean at all times. Gutmann will not accept responsibility for improper drainage as a result of clogged gutters and weep holes.
12. This product requires clearances at the head, sill and jambs to allow for thermal expansion and contraction as well as construction tolerances. Refer to final distribution drawings for joint sizes.
13. All framing members, entrances and other materials are to be installed plumb, level and true with regard to established bench marks, column center lines or other working points established by the general contractor and checked by the erector, installer and/or glazing contractor.
14. After sealant is set and a representative amount of the wall has been glazed (500 square feet or more), run a water hose test to check installation. On large projects, a hose test should be repeated during glazing operation. This testing should be conducted in accordance with AAMA 501.2 specifications.
15. Cleaning of exposed aluminum surfaces should be done per AAMA recommendations.
16. Care must be taken when assembling aluminum framing components. Over tightening any fastener may cause stripping or fastener failure. Gutmann recommends the use of drill motors with clutches engaged to provide satisfactory tightening of the screw while preventing over torque. The use of impact drill motors is not recommended due to the absence of a clutch device.

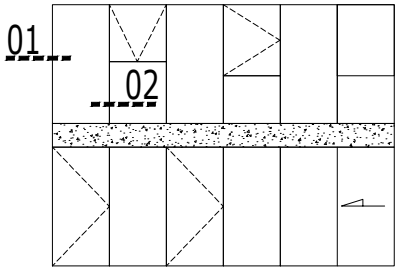
ALUMINUM PROFILES

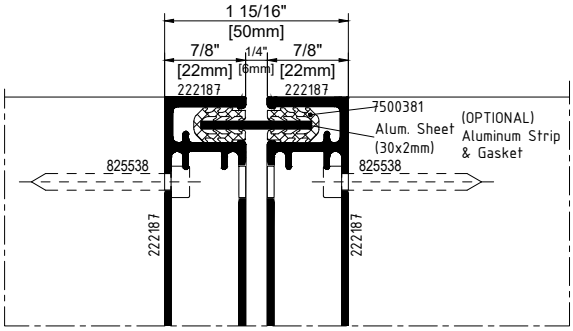


ELEVATION-TARGET DETAILS



ELEVATION





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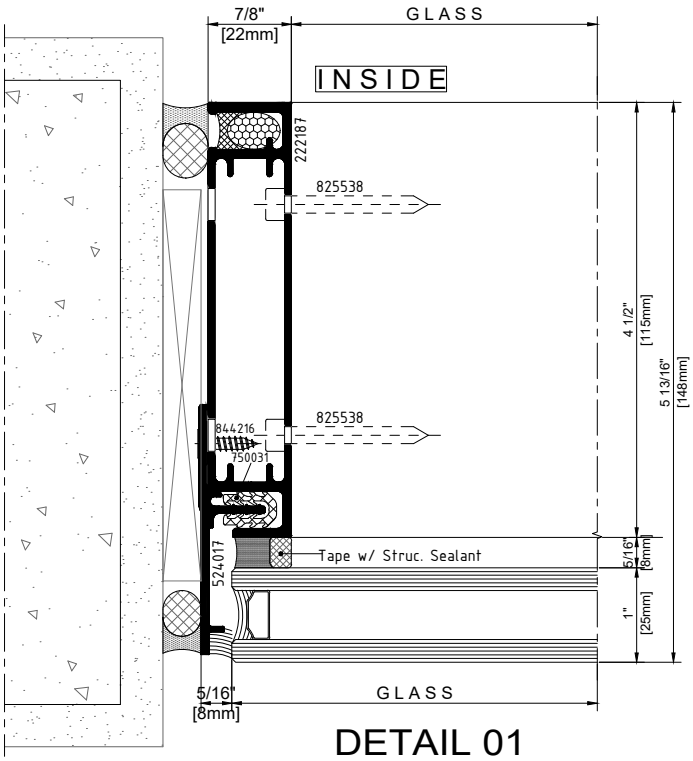

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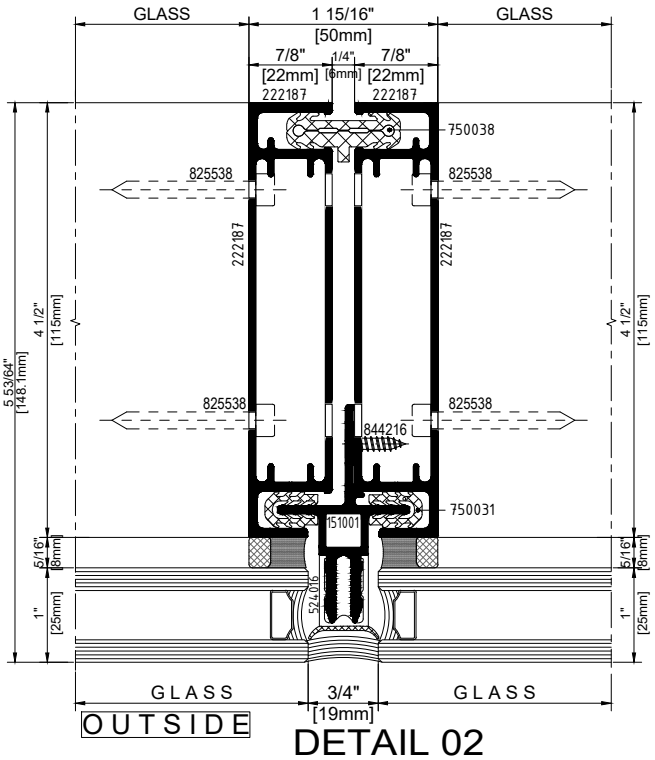

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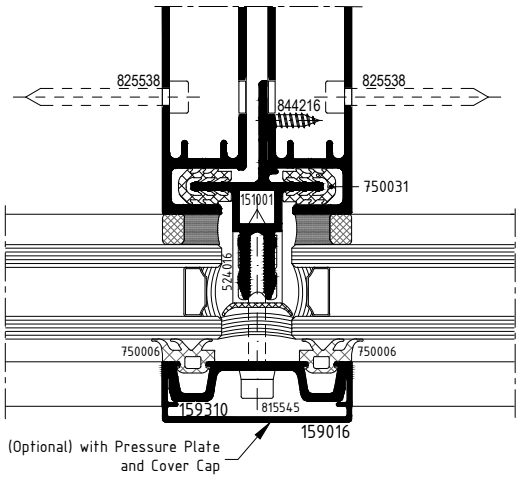

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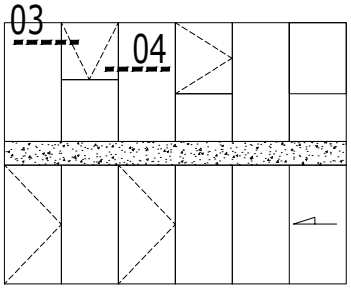
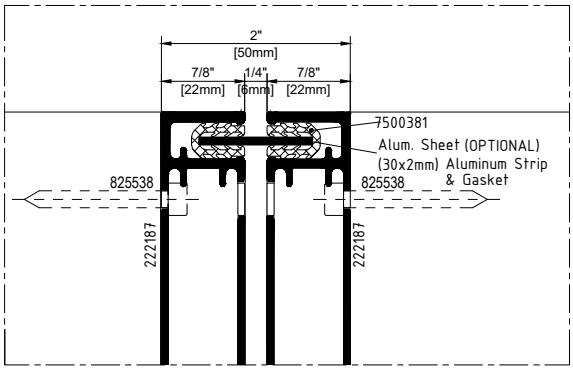


TOP HUNG WINDOW DETAIL



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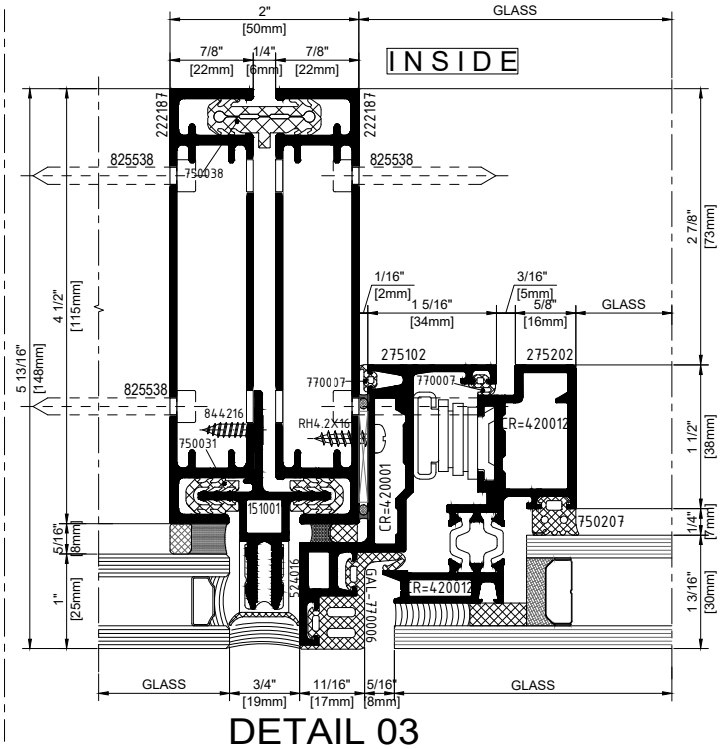

DETAIL 03
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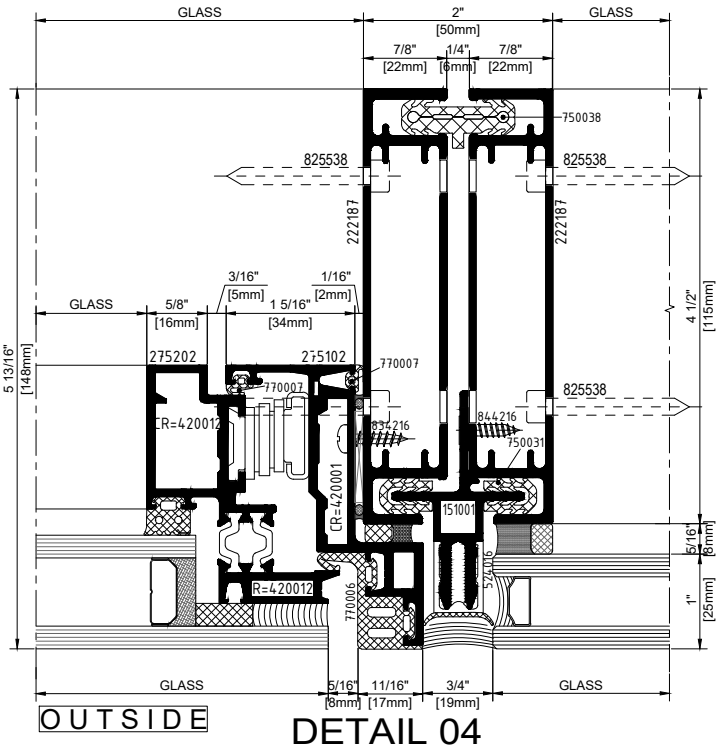

OUTSIDE

DETAIL 04
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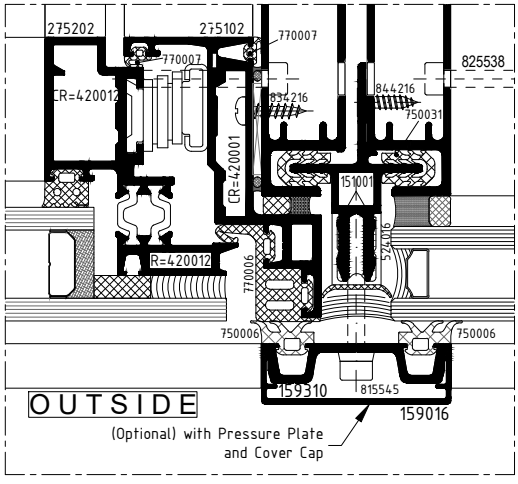

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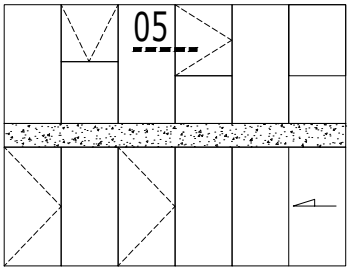
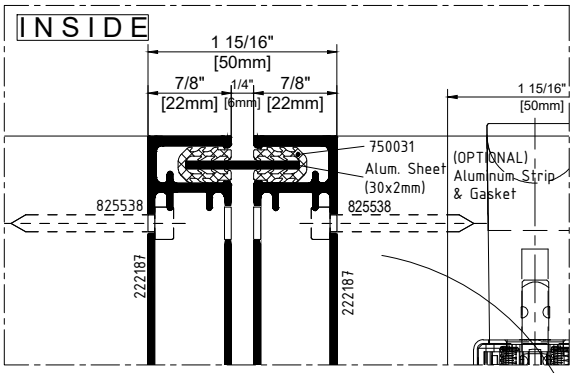


SIDE HUNG WINDOW DETAIL



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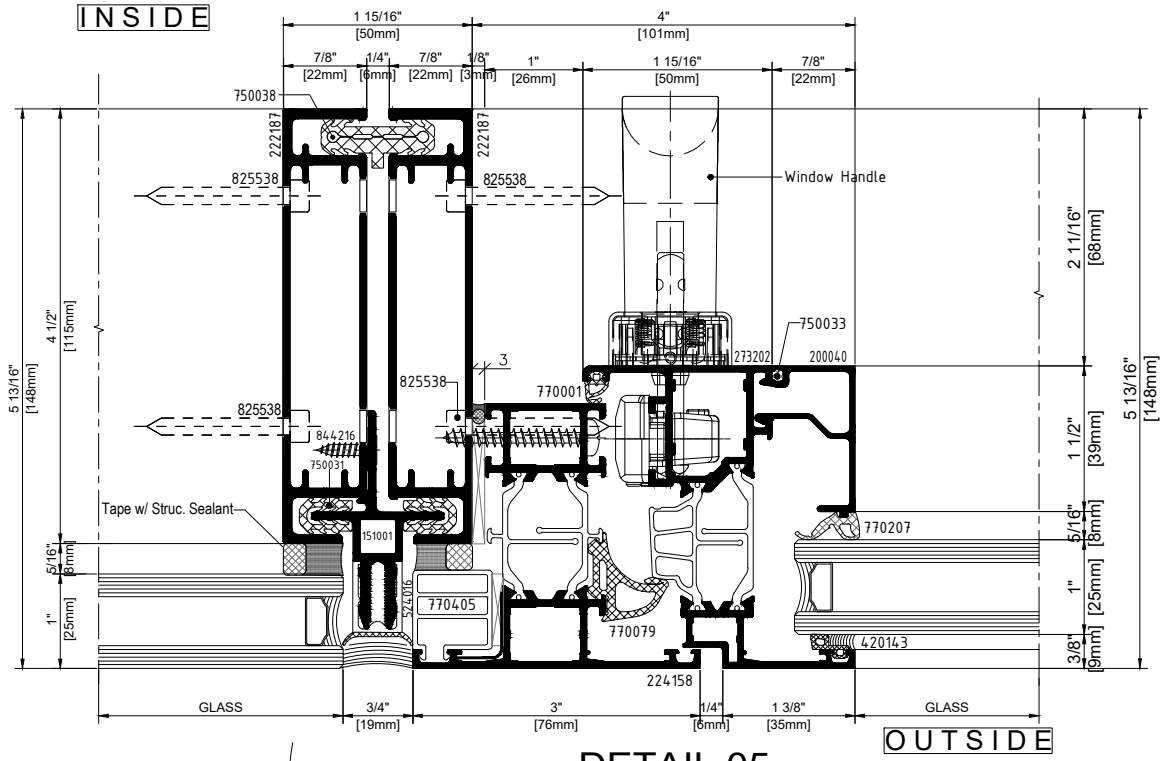

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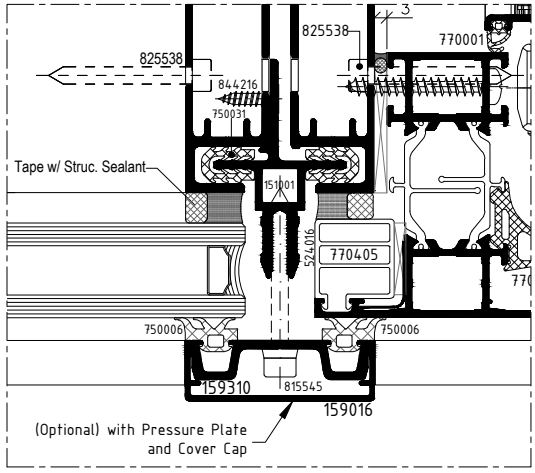

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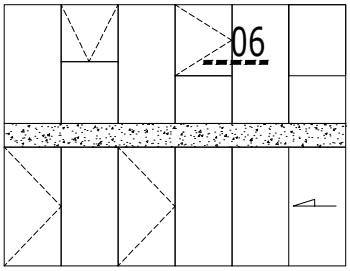

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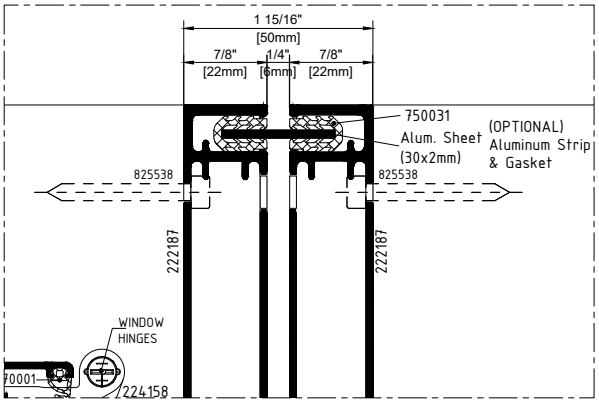

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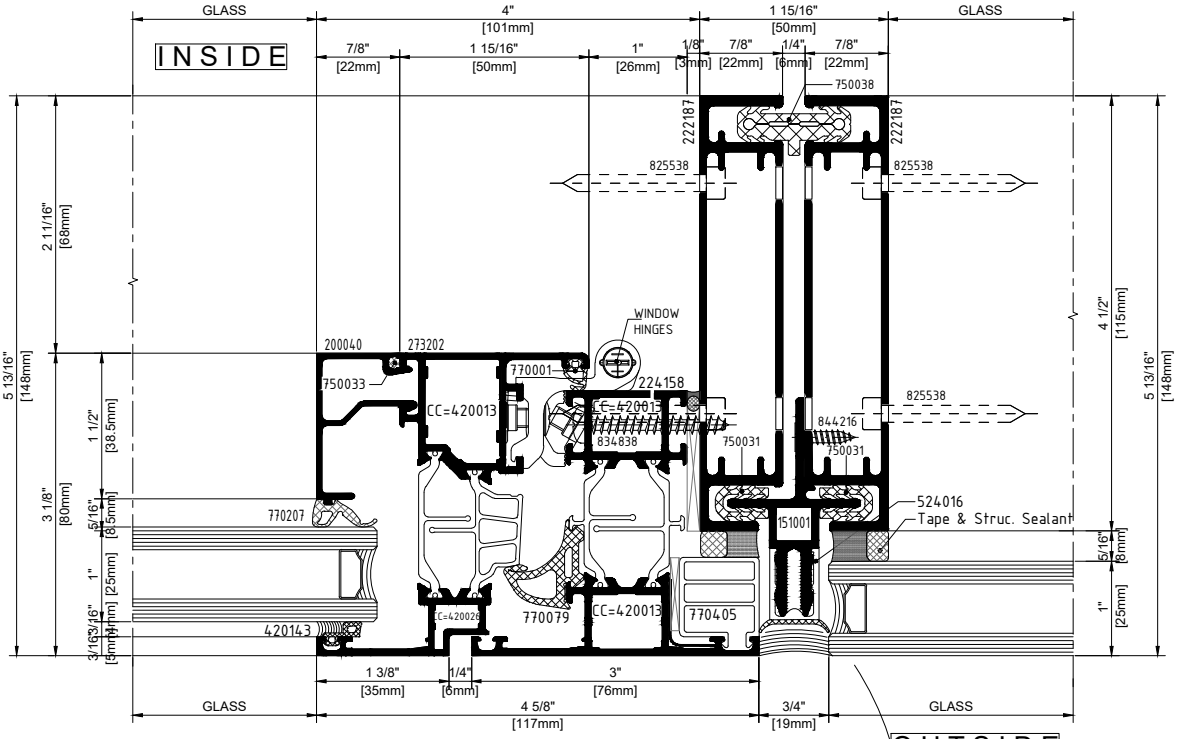

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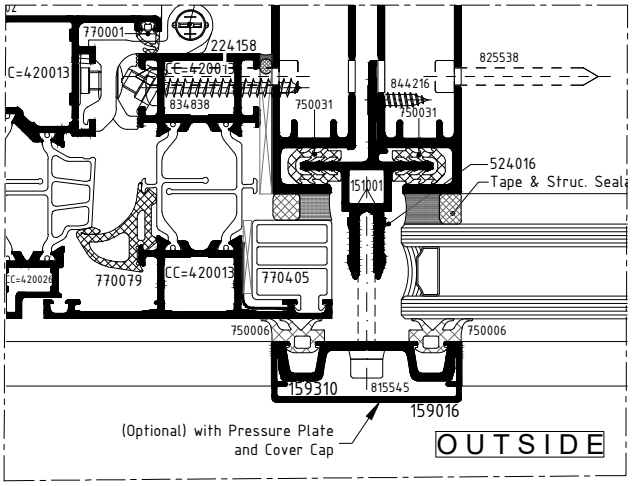

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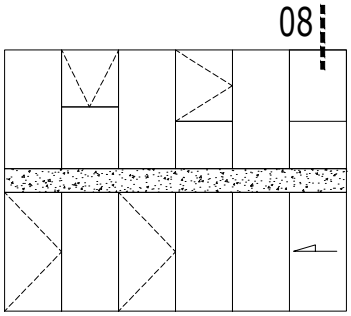

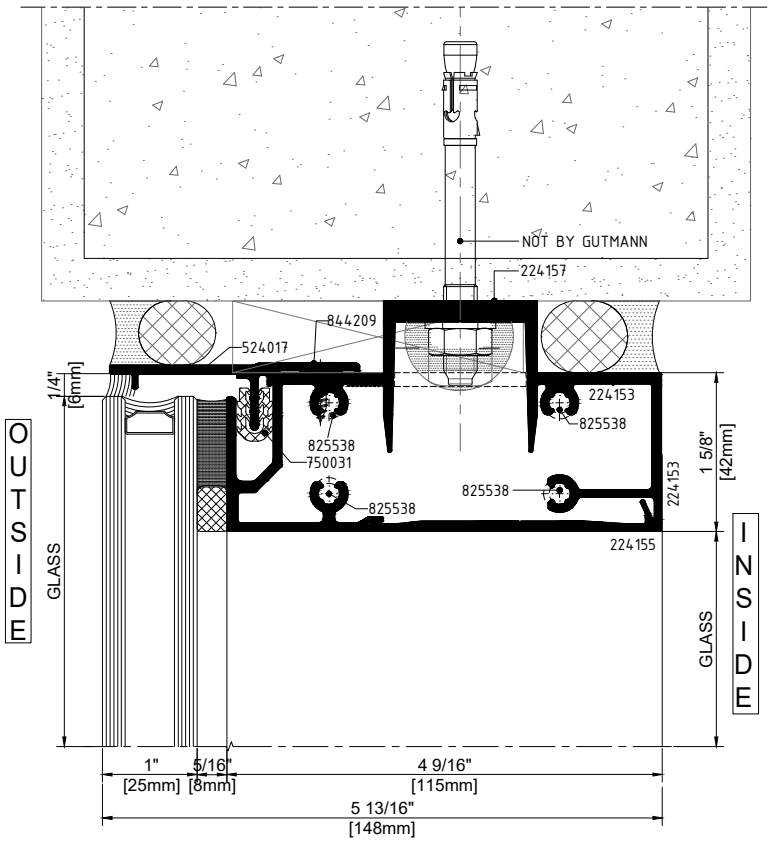

DETAIL 08

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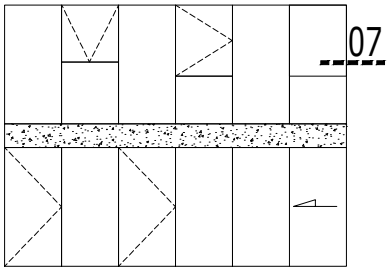

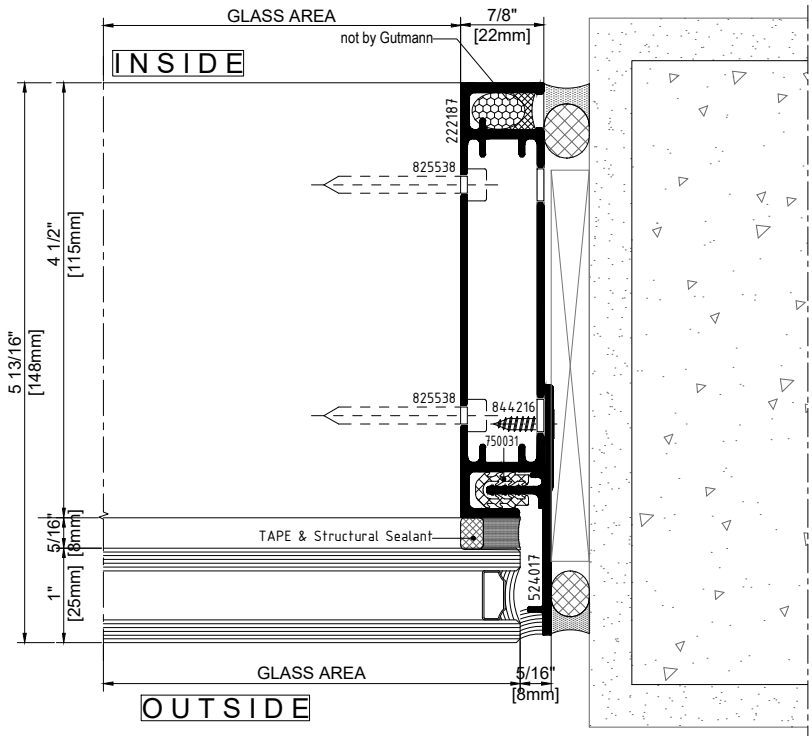

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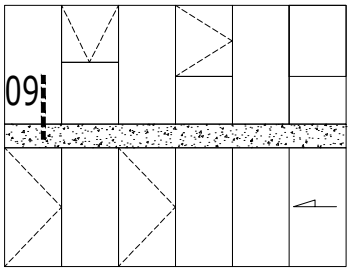

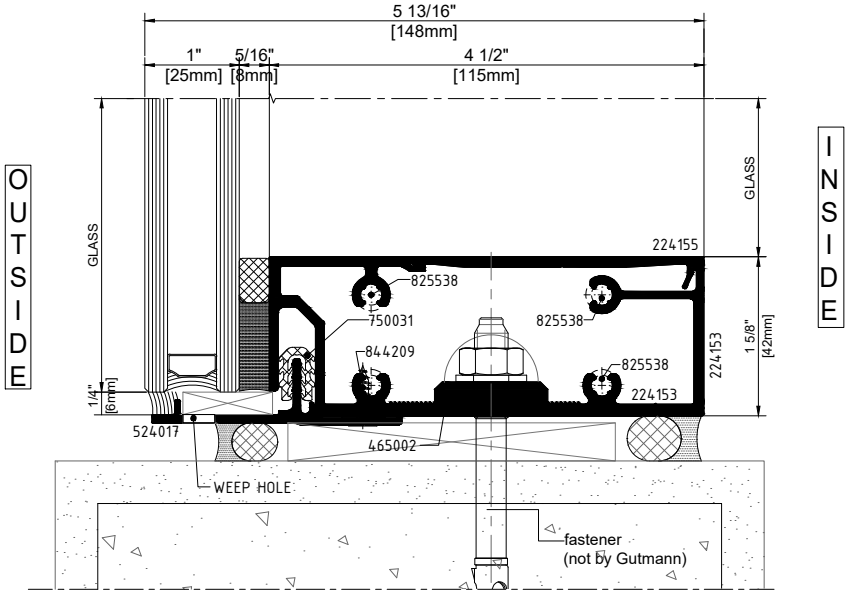

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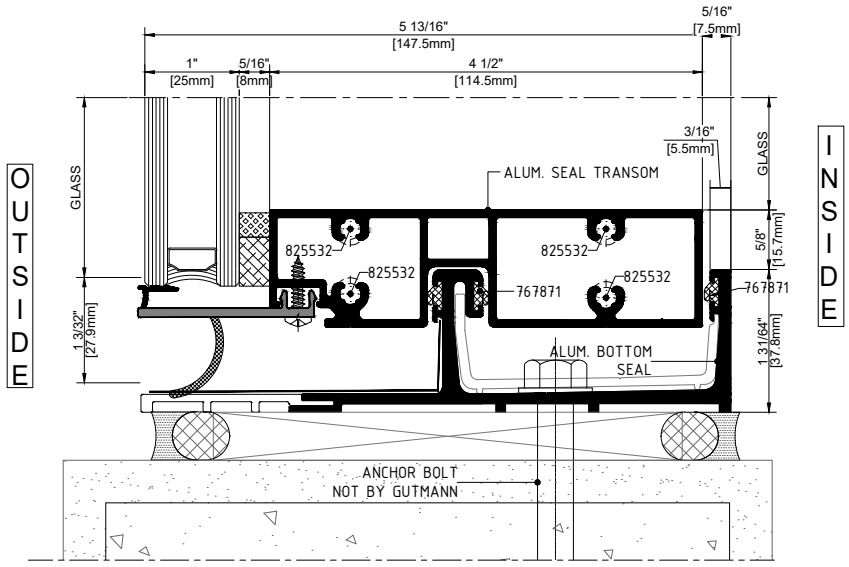
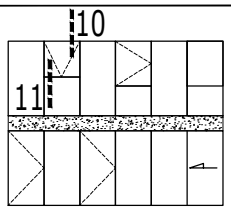
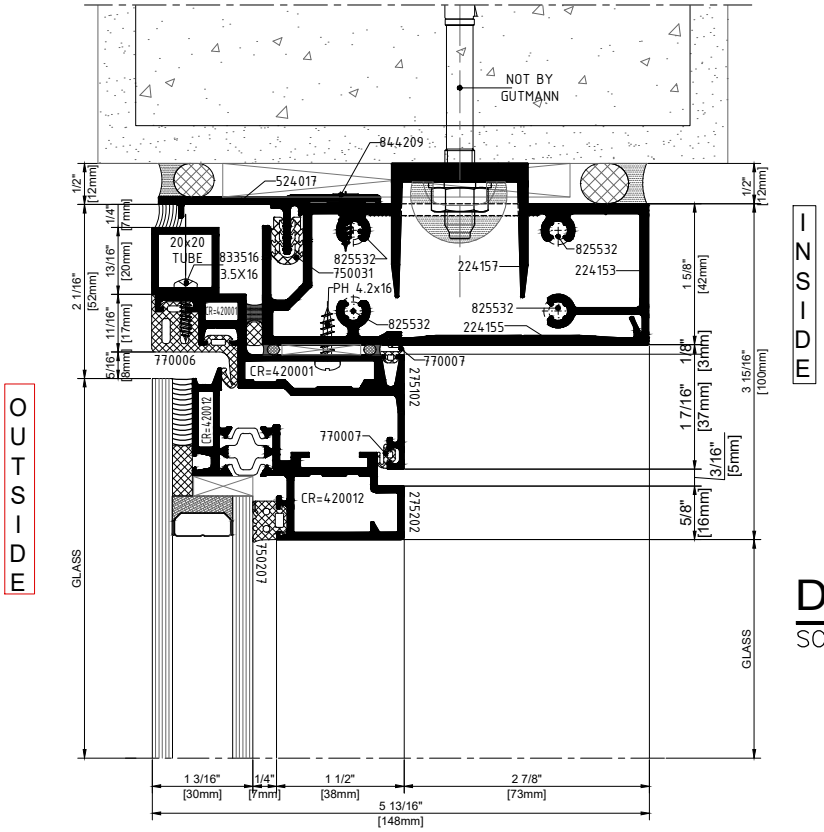


(OPTIONAL)
with Bottm Sill
Profile

S70 TOP HUNG WDO.



TOP HUNG WINDOW DETAIL



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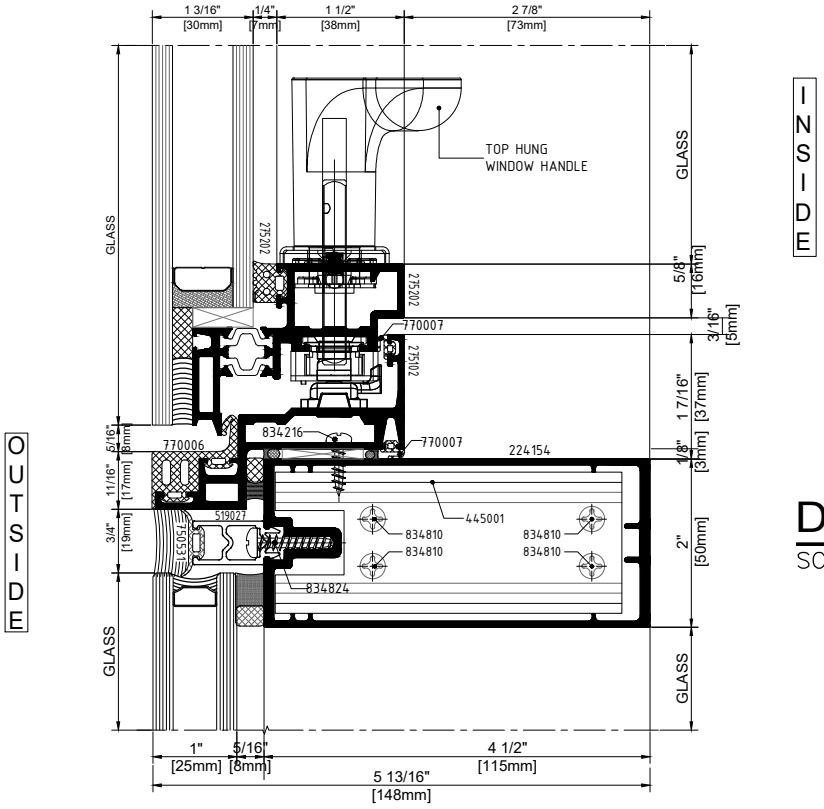

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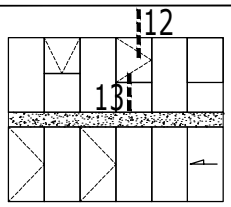
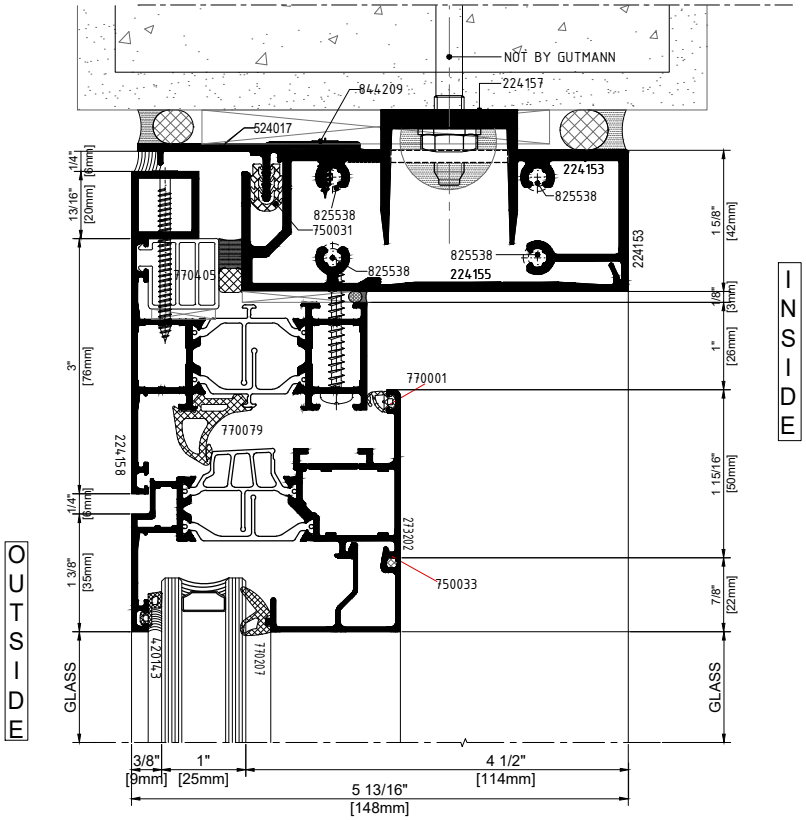


SIDE HUNG WINDOW DETAIL



DETAIL 12

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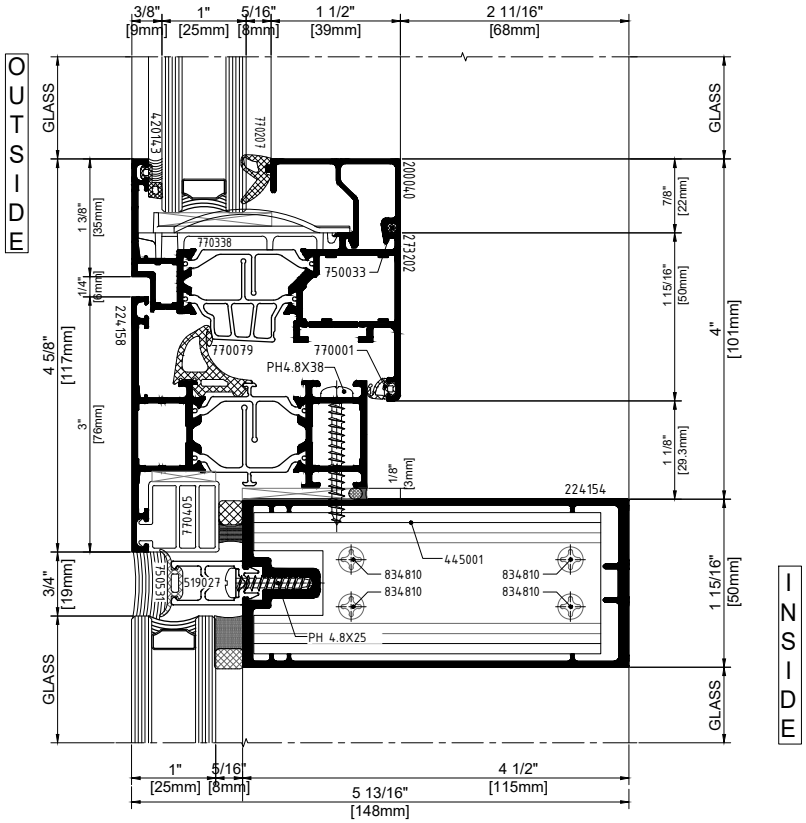

DETAIL 13

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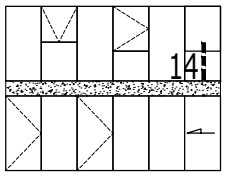

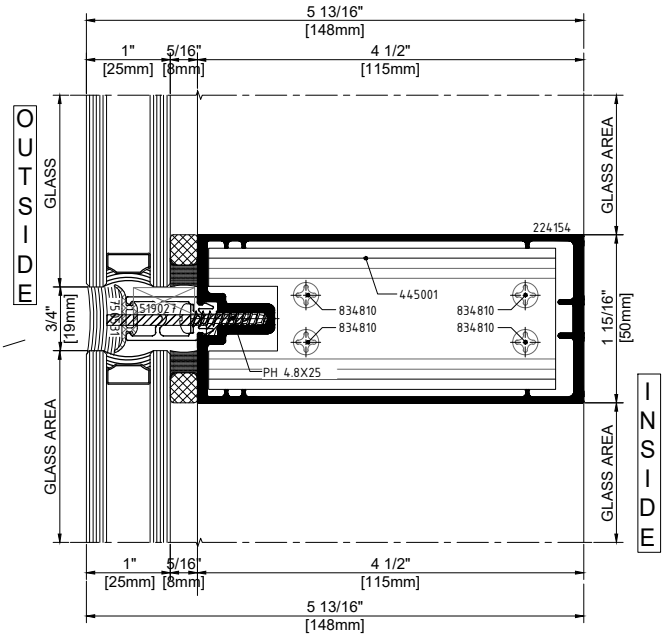

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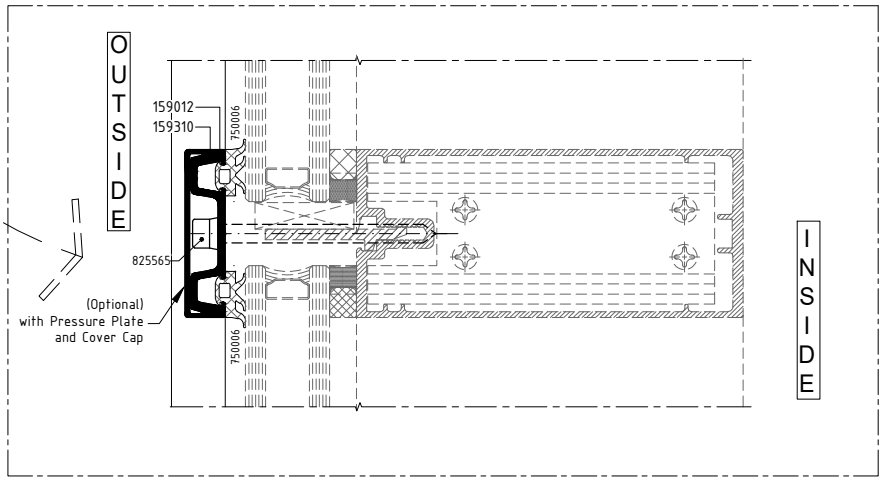

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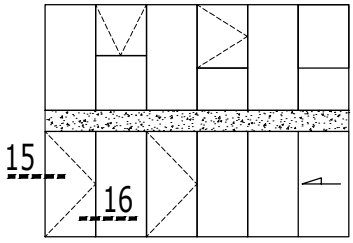
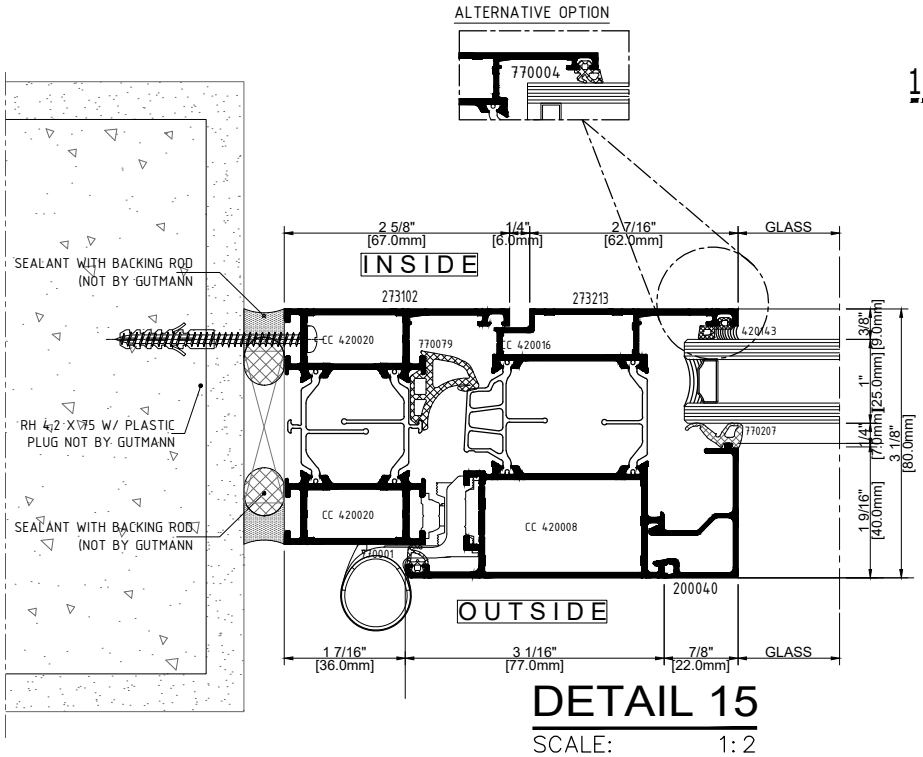


S70+ SWING OUT DOOR DETAIL



DETAIL 15
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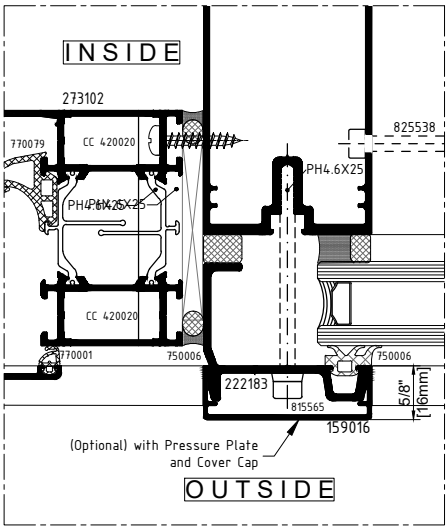

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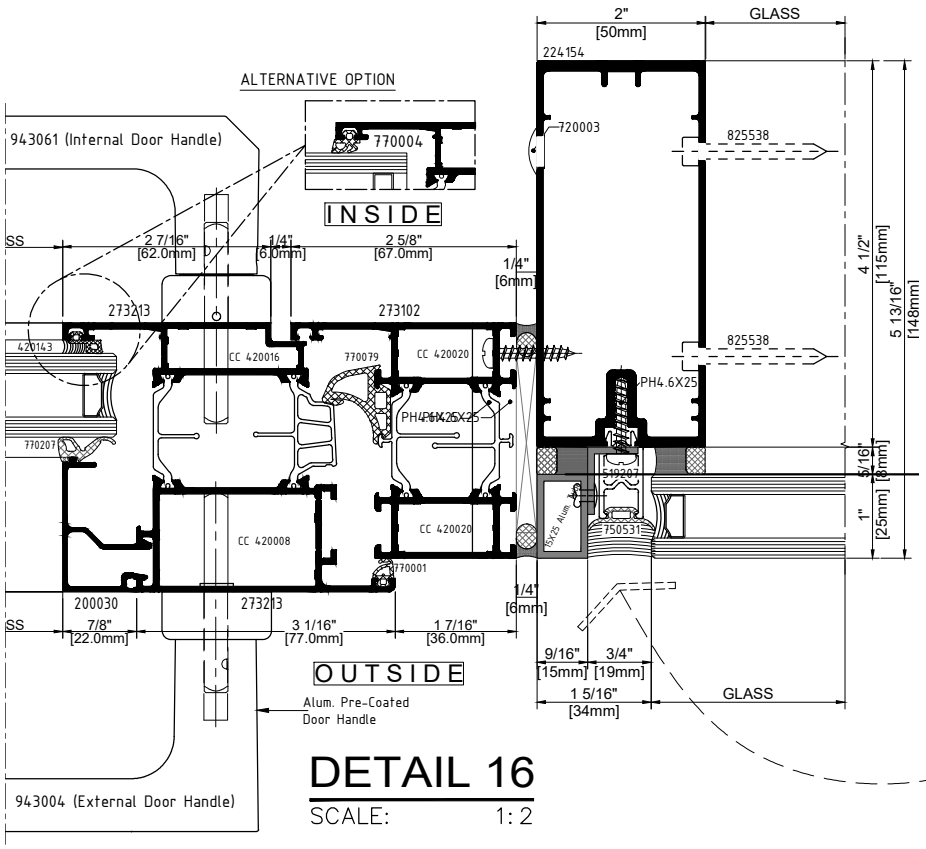

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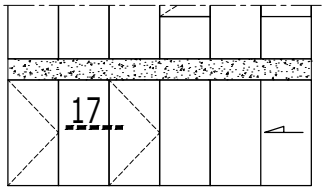
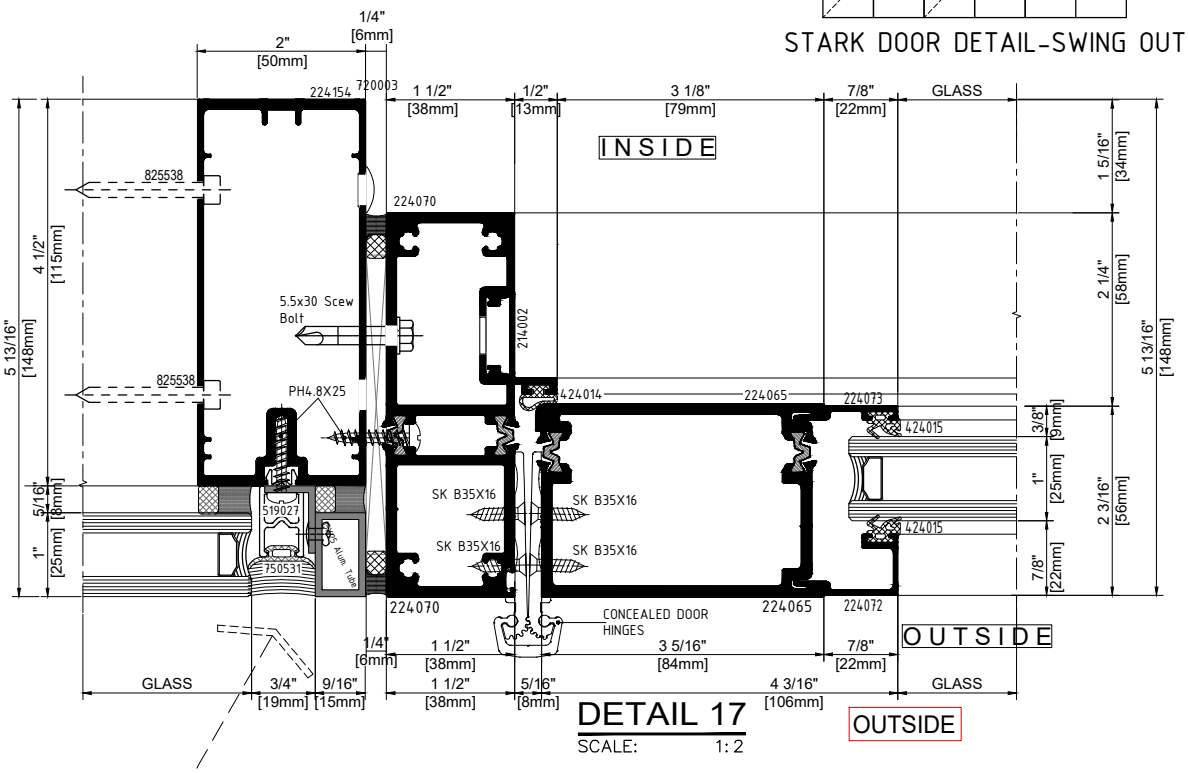
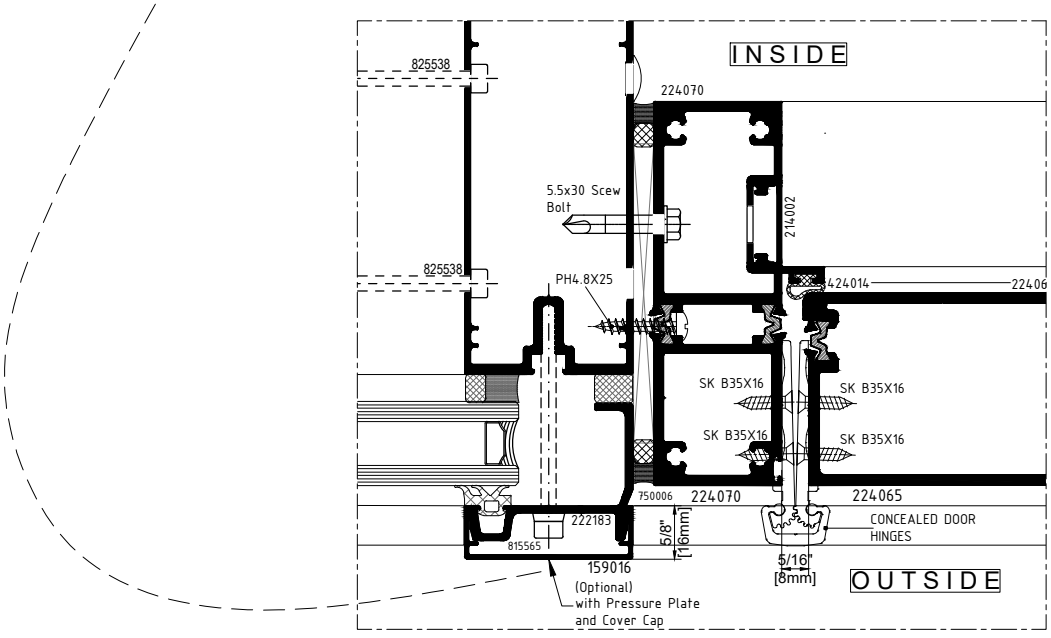


STARK DOOR DETAIL-SWING OUT





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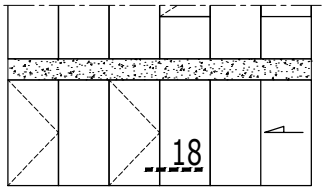
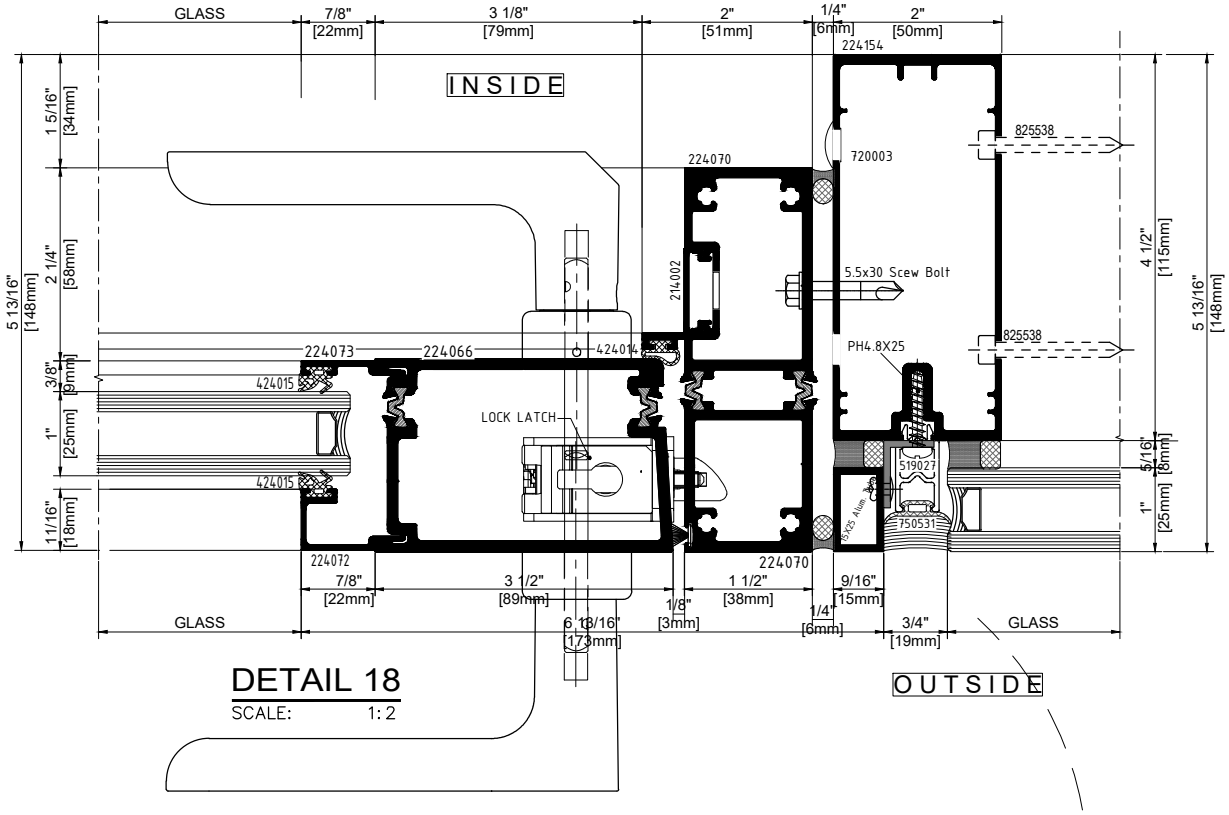
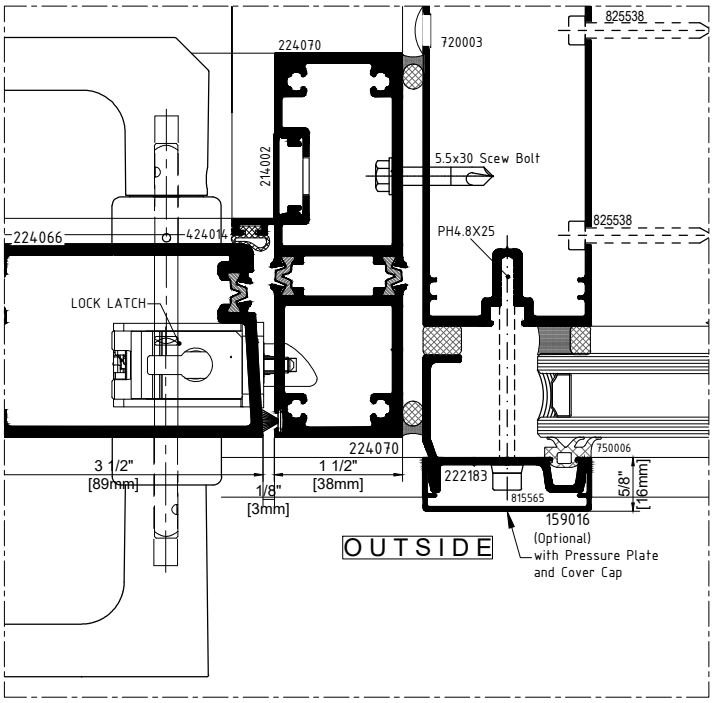


STARK DOOR DETAIL-SWING OUT

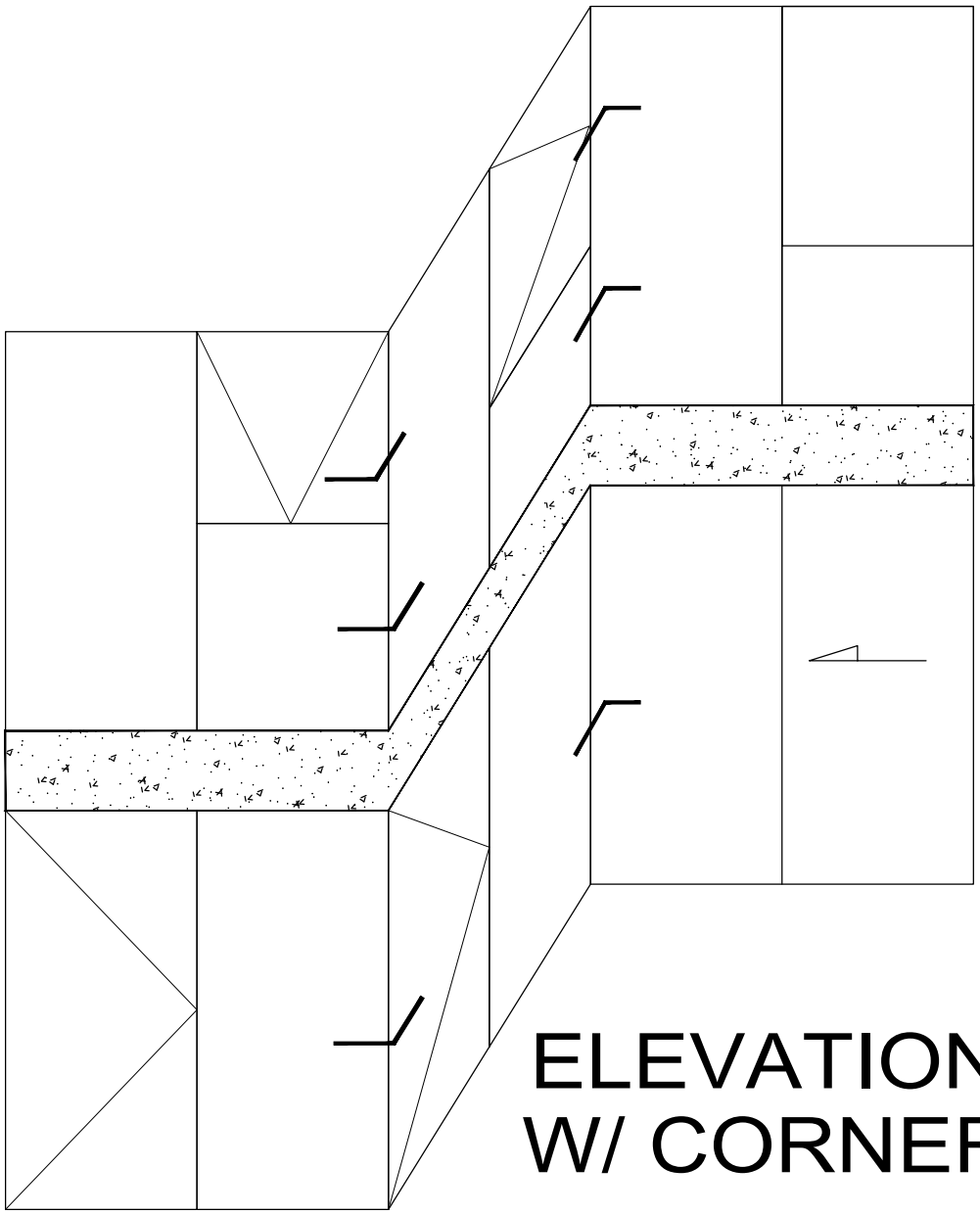


DETAIL 18
SCALE: 1:2

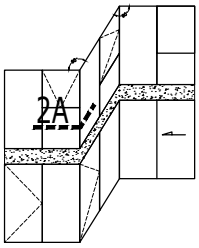


(OPTIONAL)

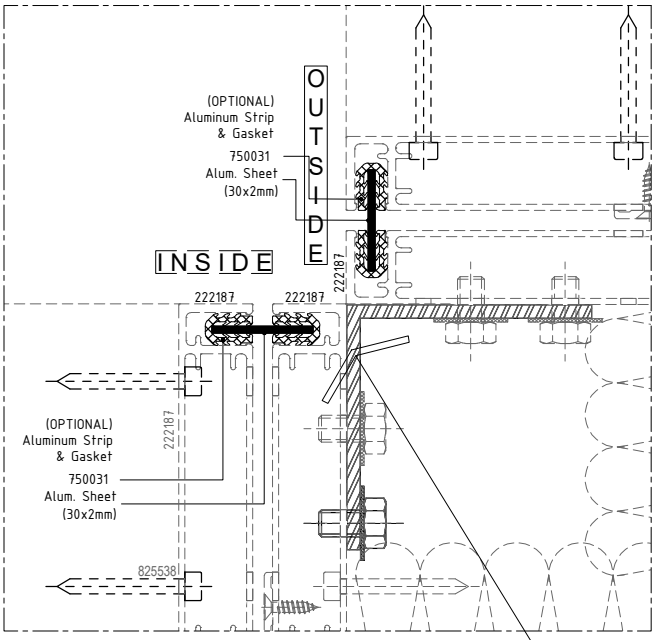
ELEVATION-TARGET DETAILS

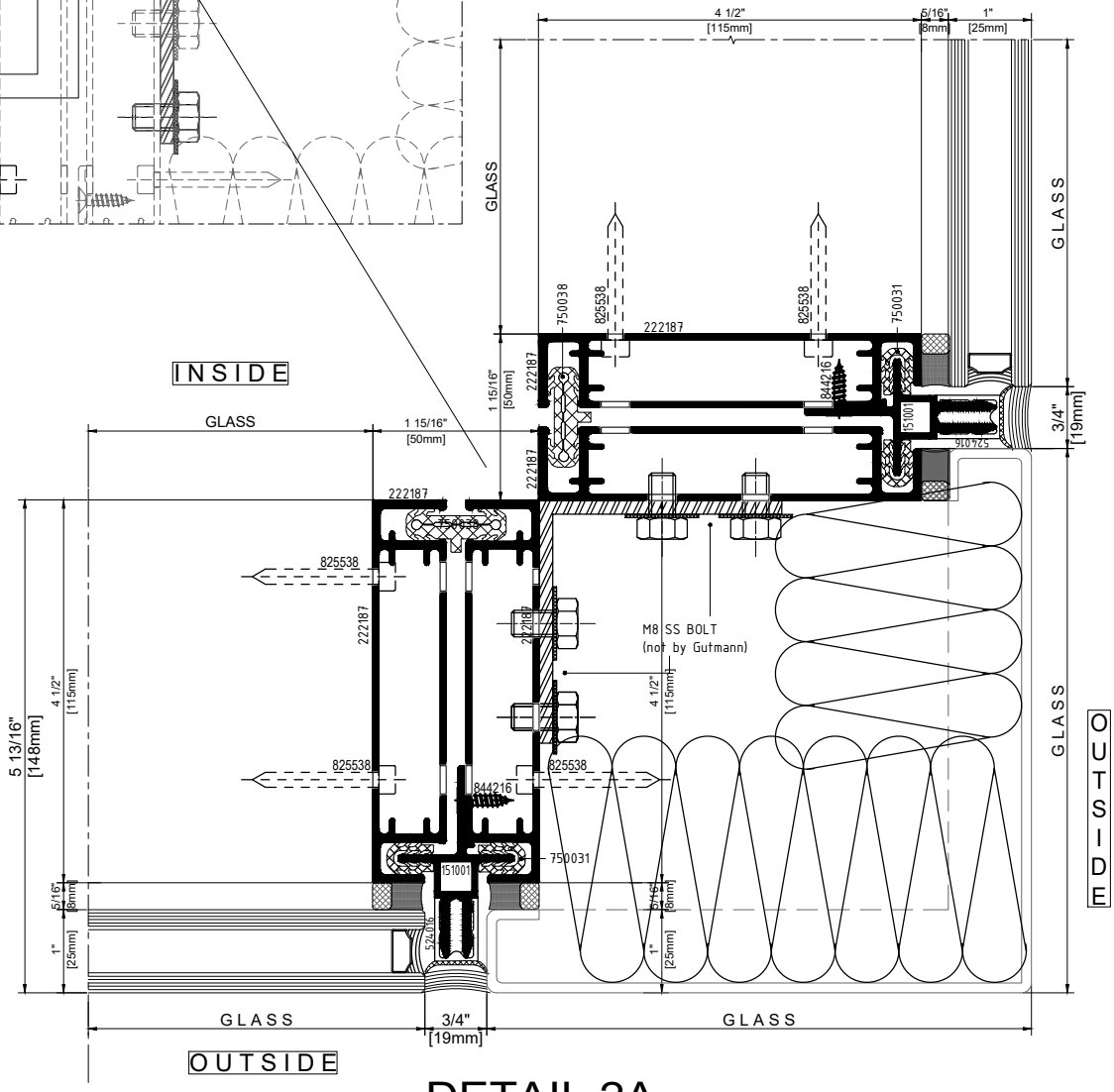


ELEVATION
W/ CORNER



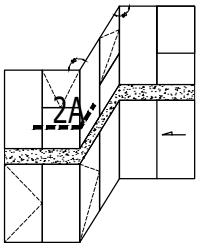
OPTIONAL

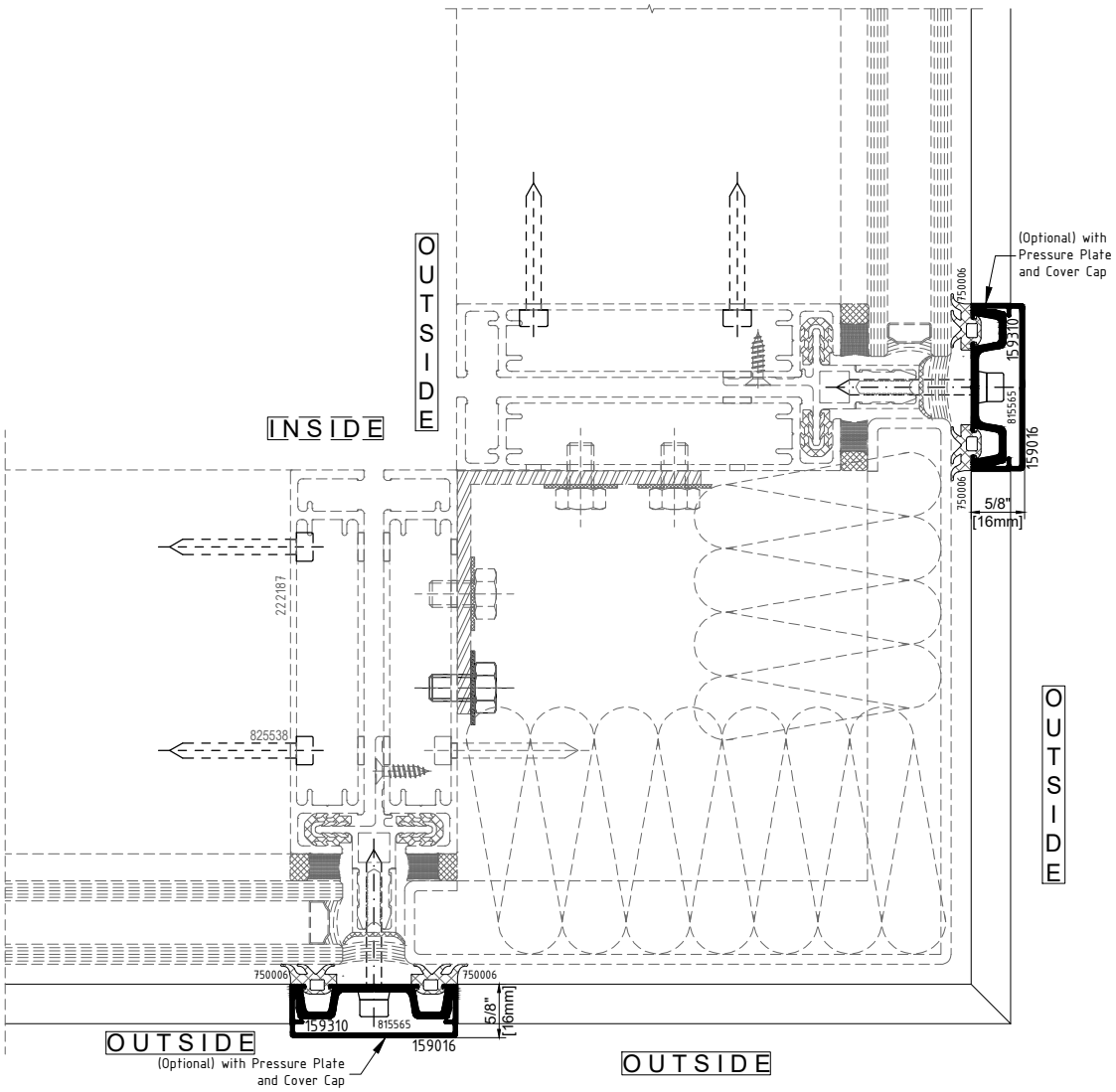




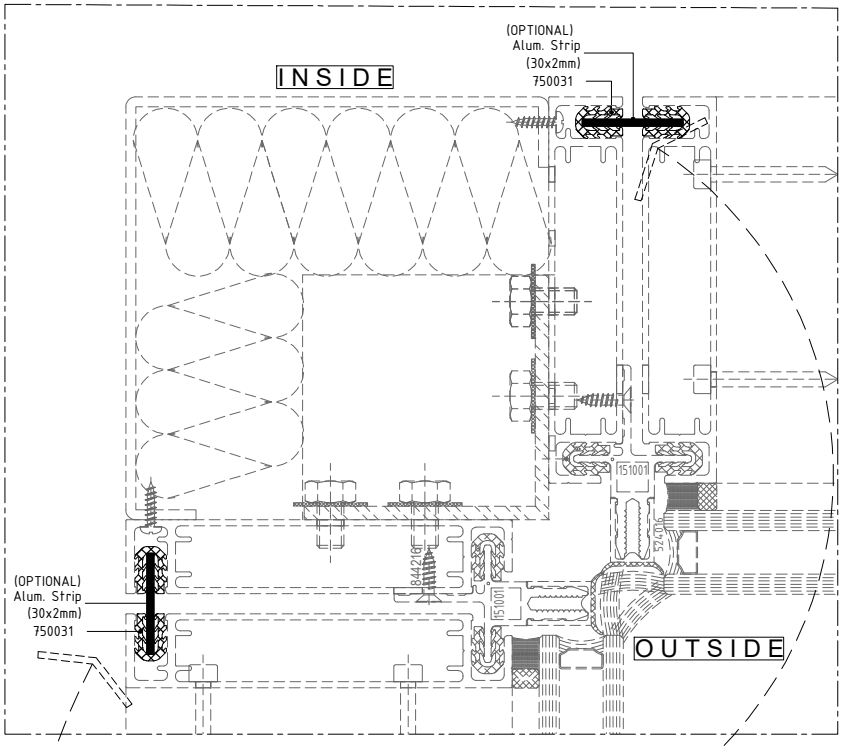
DETAIL 2A

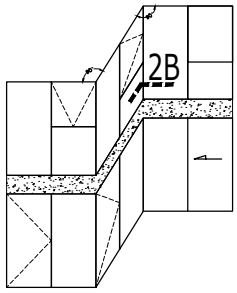
SCALE: 1: 2



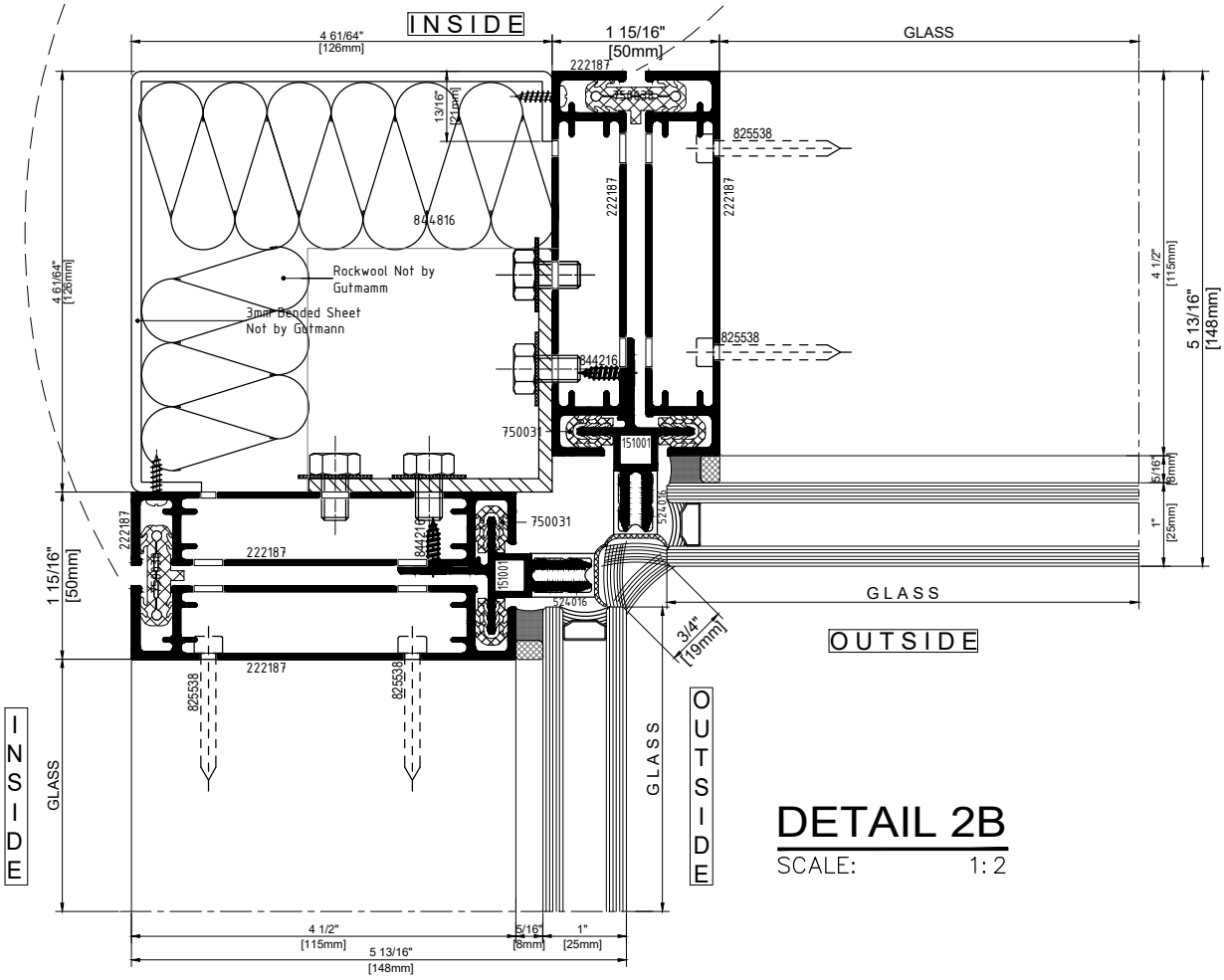


OPTIONAL WITH COVER CAP

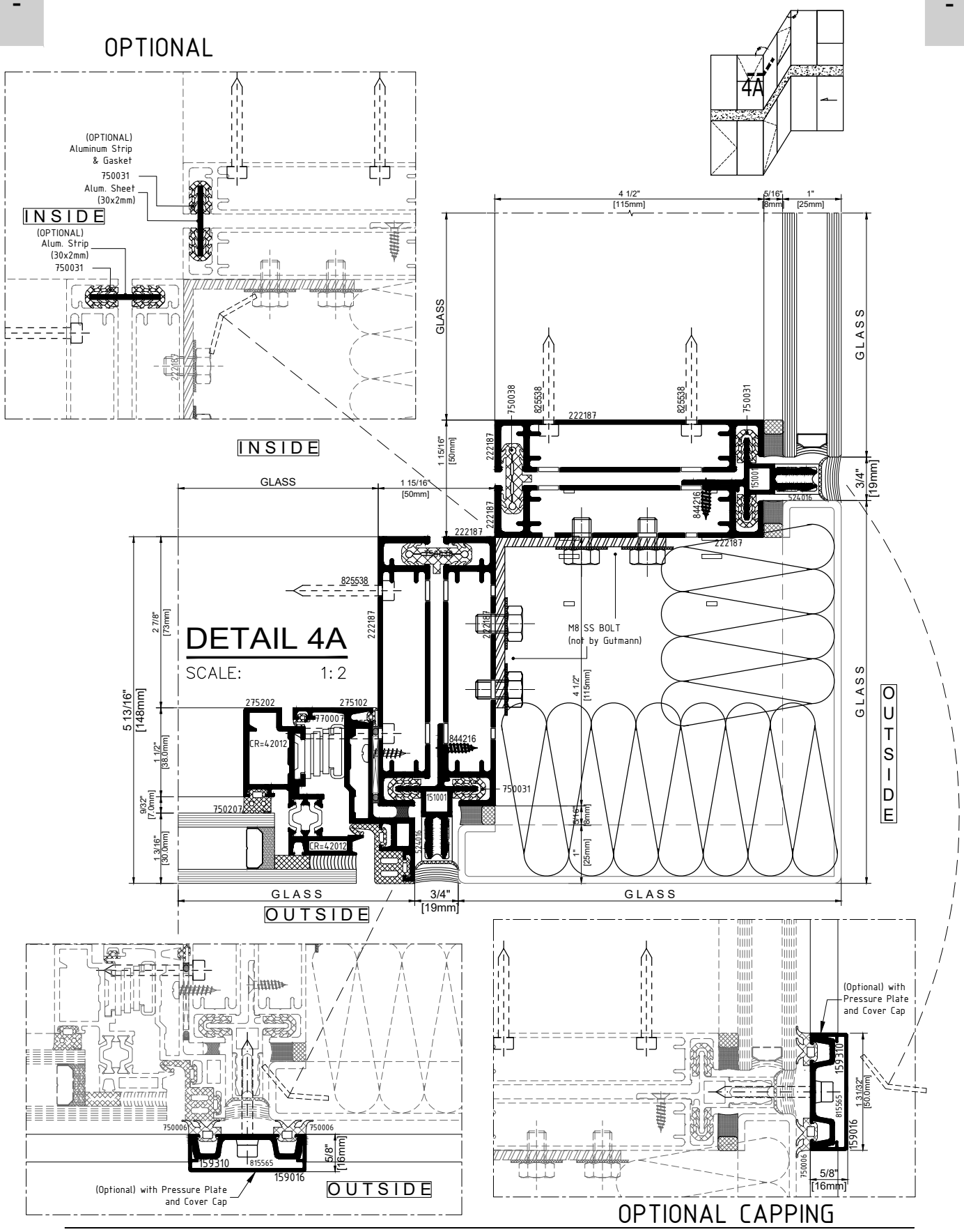




OPTIONAL
WITH GASKET &
ALUMINUM STRIP



DETAIL 2B
SCALE: 1:2


OPTIONAL
4A
(OPTIONAL)
Aluminum Strip
& Gasket
750031
Alum. Sheet
(30x2mm)
INSIDE
(OPTIONAL)
Alum. Strip
(30x2mm)
750031
INSIDE
GLASS
4 1/2"
[115mm]
5/16"
[8mm]
1"
[25mm]
GLASS
750038
825538
825538
750031
222187
222187
1 15/16"
[50mm]
844216
574016
3/4"
[19mm]
GLASS
1 15/16"
[50mm]
222187
222187
222187
825538
M8 SS BOLT
(not by Gutmann)
DETAIL 4A
SCALE: 1: 2
5 13/16"
[148mm]
2 7/8"
[73mm]
1 1/2"
[38.0mm]
9/32"
[7.0mm]
1 3/16"
[30.0mm]
275202
275102
770007
CR=42012
844216
750031
751001
750207
574016
CR=42012
4 1/2"
[115mm]
5/16"
[8mm]
1"
[25mm]
GLASS
OUTSIDE
GLASS
3/4"
[19mm]
GLASS
OUTSIDE
750006
750006
159310
815565
159016
5/8"
[16mm]
(Optional) with Pressure Plate
and Cover Cap
OUTSIDE
(Optional) with
Pressure Plate
and Cover Cap
159310
815565
1 31/32"
[50.0mm]
159016
750006
5/8"
[16mm]
OPTIONAL CAPPING

FABRICATION & INSTALLATION INSTRUCTIONS