Research material in support of application towards Certificate of Appropriateness for the rebuilding of the roof for: 412 Hawthorne, Westmoreland Historic District, Houston, TX 77006
Research materials assembled by: Erin Lofgreen

Key reasons for rebuilding the roof:
-Shingles are past end of usable life; numerous leak points; insurance declined due to roof condition
-Chimney leaning out of plumb by about 1 foot causing serious structural damage to the trusses
-Major rain damage to structural members at several places of the roof, must be repaired to prevent further damage
-Severe damage to non-structural members (decking, shingles, eaves, fascia, and gable facades) due to poor maintenance, weather damage, age
-Damage is undermining integrity of structure, and has already caused water damage to the attic and interior of home
-Roof structural members are warped and rotting
-Windows have severe damage and rotting wood
-To restore integrity to significant character-defining details of the gables which have deteriorated

Proposed design for rebuilding the roof:
-Complete roof replacement including decking, shingles, eaves, fascia, and gable facades.
-Replace damaged structural members (rafters, gable studs), as necessary.
-Removal of chimney: chimney is small and plain in the middle of the house and has no defining architectural characteristics; it is not visible from sidewalk and barely visible from the street. If chimney is not removed, it will lead to further structural damage of the building envelope.
-Replace exterior roofing material with metal or composite roofing material.
-Attempt to reuse existing wood siding on gables. If existing siding is unable to be reused, replace wood siding, with wood or cement fiber board matching "same profile same profile, texture, and dimensions as the original siding." (Criterion #6 of the Historic Preservation Manual, City of Houston Planning and development Department).
-Attempt to reuse existing wood windows on gables. If existing wood windows require a mjority of the wood components to be rebuilt, replace windows with double hung windows that visually match the originals in "depth, sashes, muntins and profile are complimentary to the original." (Criterion #6 of the Historic Preservation Manual, City of Houston Planning and development Department). Replacements window will retain the same "Kings Cross" muntins that appear on the original window.
-Maintains all same roof dimensions, elevations and pitches, with the exception of replacing the rear hip with a full gable. Rear gable will match dimensions of existing front gable.
-Change of rear roof profile from hip to gable meets all criteria of a rear addition per HAHC regulations, therefore is eligible for a mandatory approval:

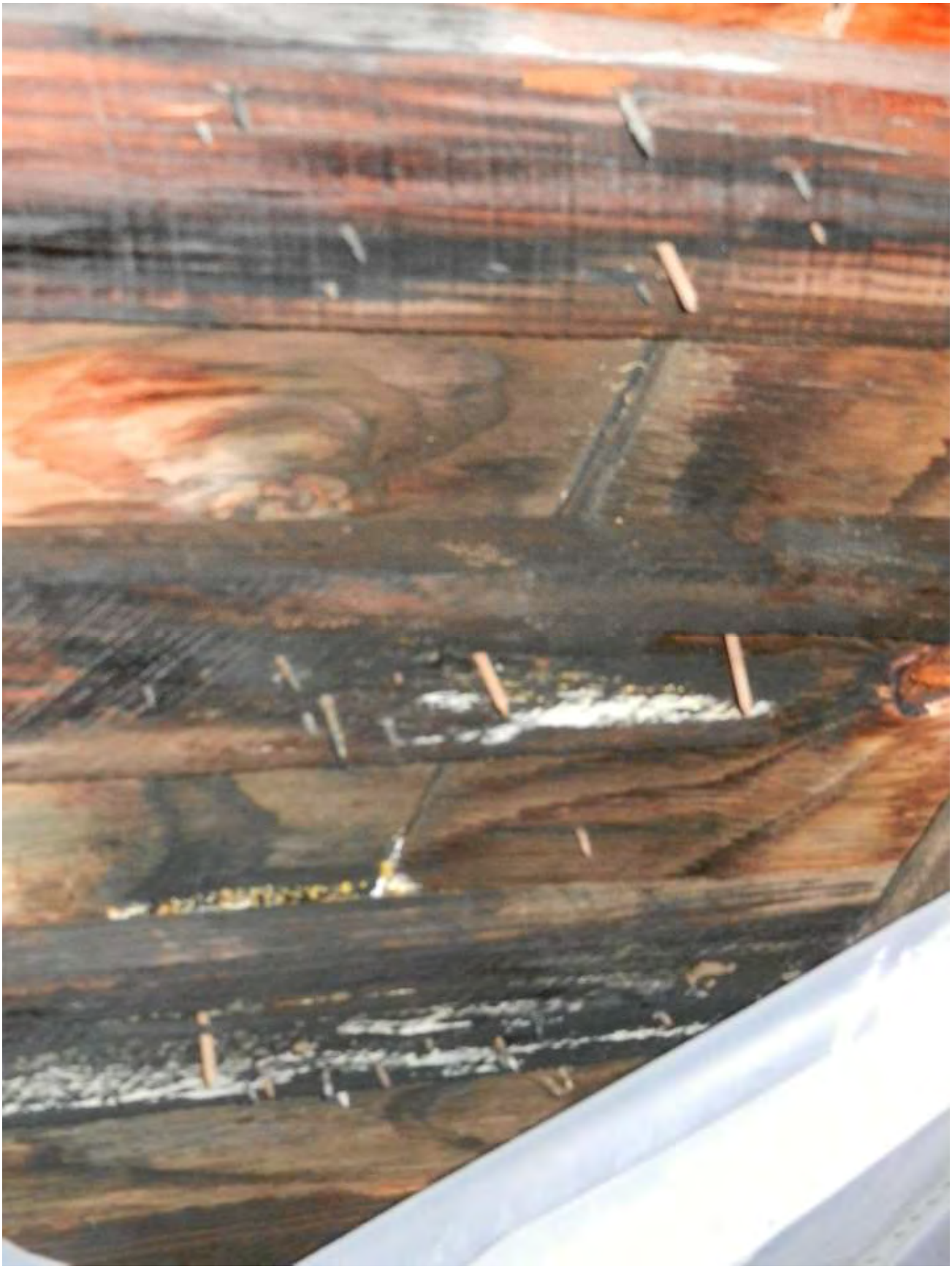
It is not taller than the existing structure; and
It is set back from the side property lines at least as much as the structural walls of the existing structure; and
It is not wider than the wall to which it is attached; and
It does not require the demolition of any portion of the existing structure, except for the rear wall to which the addition will be attached; and
It has a roof pitch that is less than or equal to the existing structure; and
It is not constructed on a building that has had an addition approved under this chapter.

VIEW FROM SOUTHEAST

VIEW FROM NORTHEAST

VIEW FROM SOUTHWEST

CHIMNEY LEANING OUT OF PLUMB: BUBBLE IN LEVEL SHOWING SEVERITY OF DISPLACEMENT



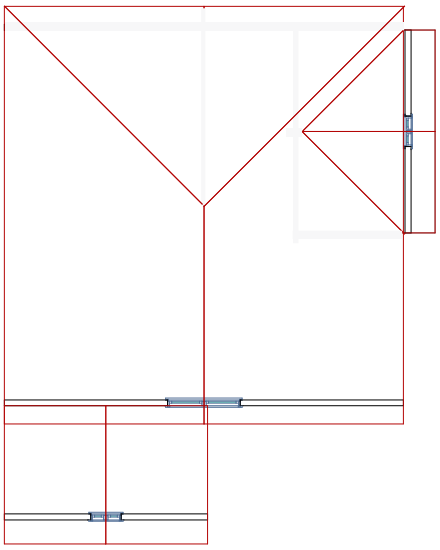
WATER DAMAGE AND ROTTING WOOD

MAJOR CRACKS IN GABLE SIDING
AND LARGE GAPS AROUND
DAMAGED WIDOWS

GABLE SIDING WITH WATER
DAMAGE AND ROTTING WOOD

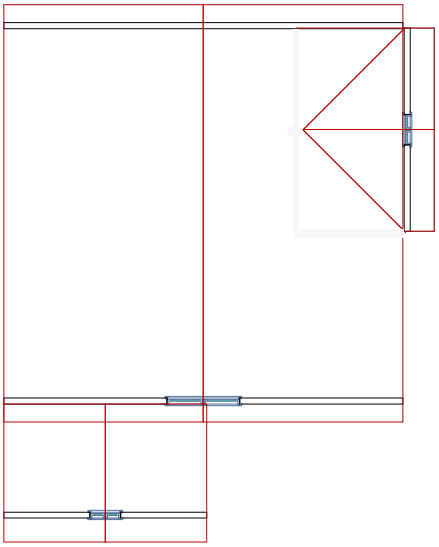
LARGE GAPS AROUND THE WIDOW SHOW THE SEVERITY OF WARPING/ WRACKING

WATER DAMAGE AND ROTTING WOOD ON GABLE WINDOWS, LACK OF APPROPRIATE GABLE STRUCTURE



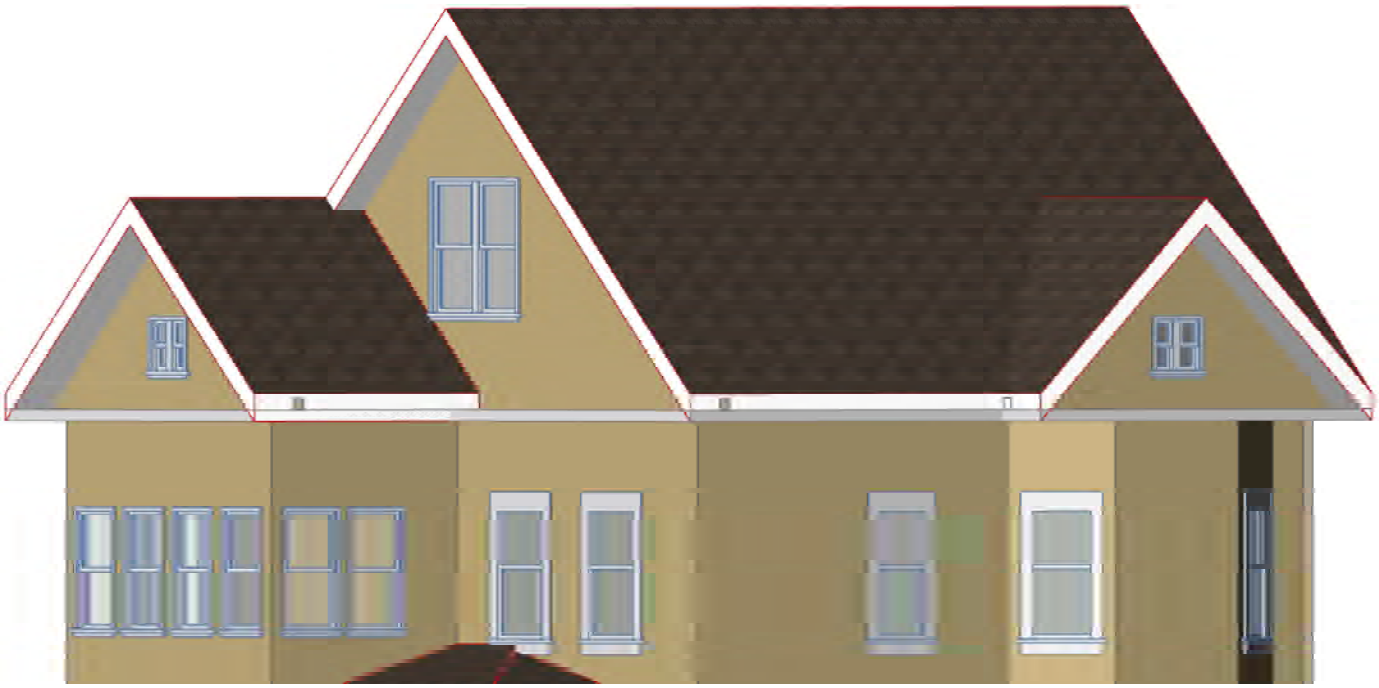
EXISTING ROOF PLAN

SCALE: 1/16” = 1’



PROPOSED ROOF PLAN

SCALE: 1/16” = 1’



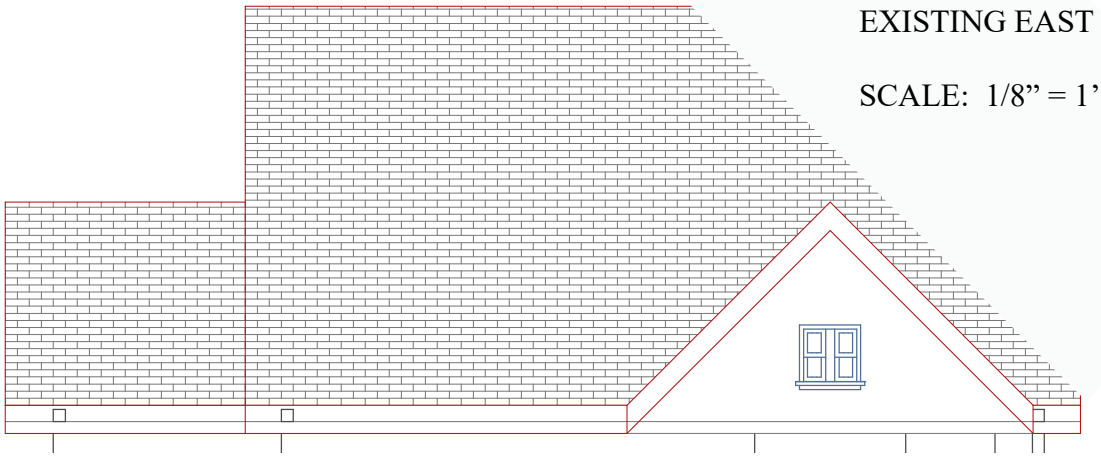
PROPOSED ROOF

PHOTOS OF FRONT GABLE WINDOWS

INTERIOR PHOTO OF SIDE GABLE WINDOW

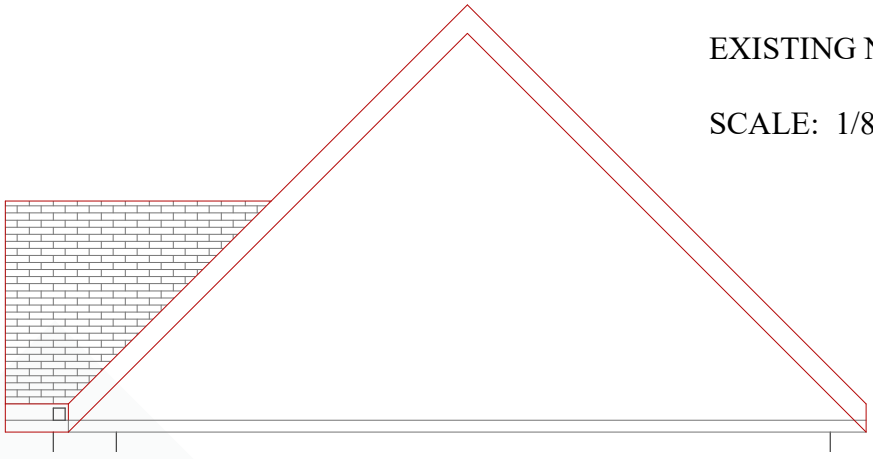
EXISTING SOUTH ROOF ELEVATION

SCALE: 1/8” = 1’



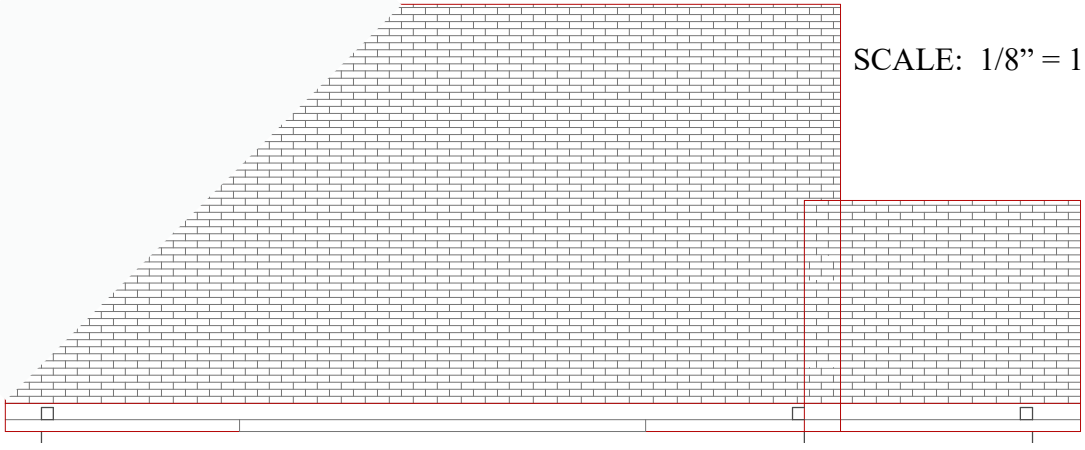
EXISTING EAST ROOF ELEVATION

SCALE: 1/8” = 1’



EXISTING NORTH ROOF ELEVATION

SCALE: 1/8” = 1’



EXISTING WEST ROOF ELEVATION

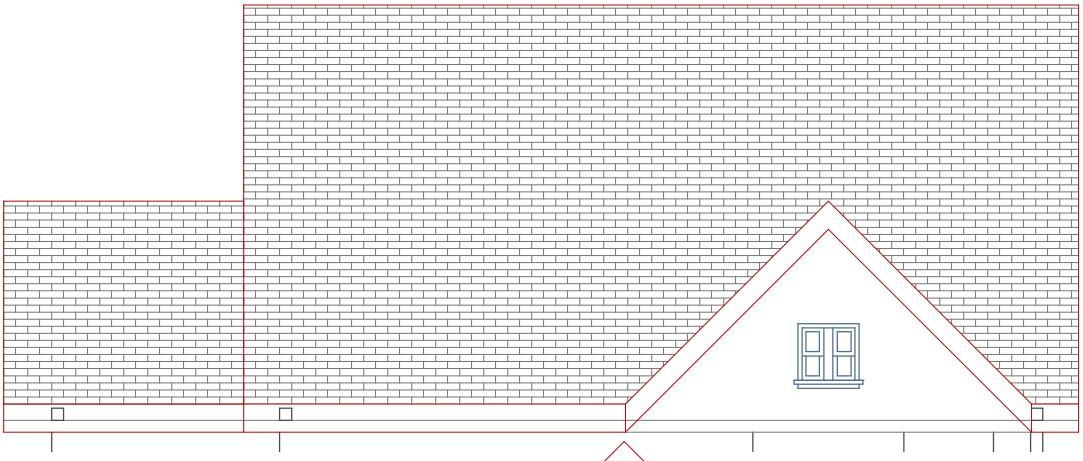
SCALE: 1/8” = 1’

PROPOSED SOUTH ROOF ELEVATION

SCALE: 1/8” = 1’

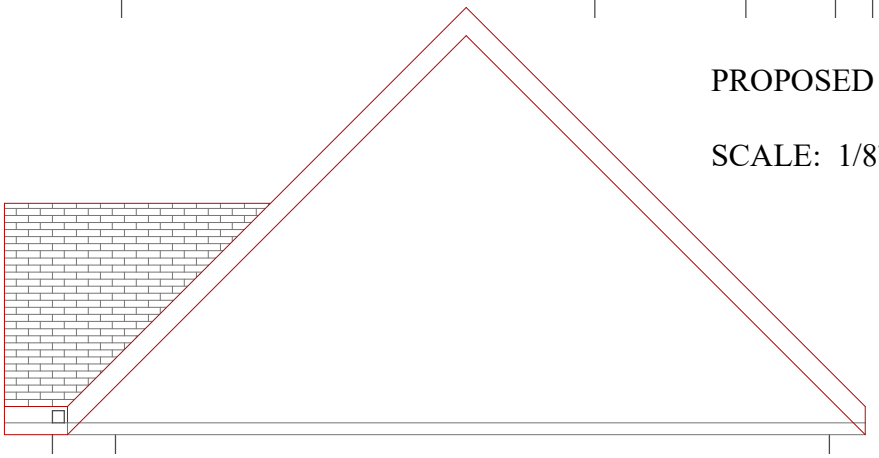
PROPOSED EAST ROOF ELEVATION

SCALE: 1/8” = 1’



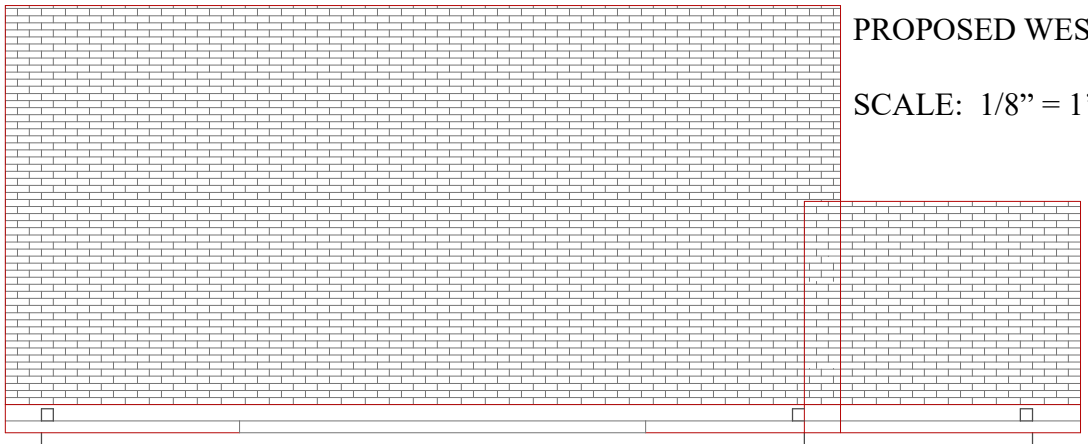
PROPOSED NORTH ROOF ELEVATION

SCALE: 1/8” = 1’



PROPOSED WEST ROOF ELEVATION

SCALE: 1/8” = 1’

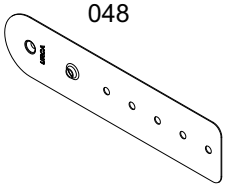


Accessories

Installation Bracket, Nailing Fin, Drip Cap and Jamb Extension

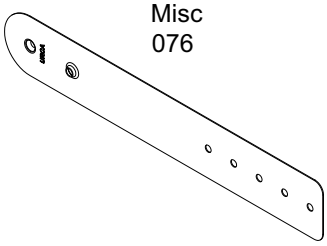
Not to Scale

Misc
048



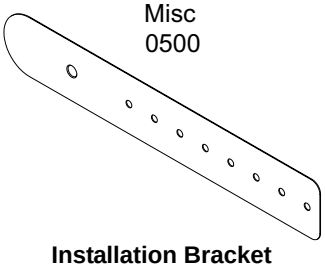
Installation Bracket
Misc. 048 - 6 3/8" (162) length
Includes flathead wood screws

Misc
076



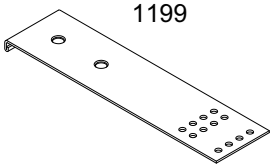
Installation Bracket
Misc. 076 - 9 3/8" (238) lengths
Includes flathead wood screws

Misc
0500



Installation Bracket
Misc. 0500 - 15 3/8" (391) lengths
Includes flathead wood screws

Misc
1199



Structural Bracket
Misc. 1199 - 6 3/8" (391) or 10" (254) lengths
Includes flathead wood screws

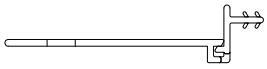
Installation Fin / Drip Cap

V084
NAILING FIN

V087
CONNECTING BARB

V088
NAILING FIN

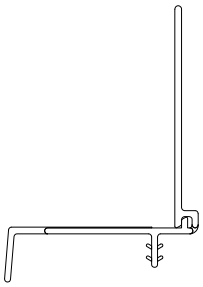
Radius, for use at
Round Top Unit



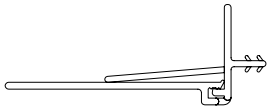
V104
NAILING FIN

- For use at Side jambs

V226
DRIP CAP - VINYL
- For use at Head Jamb.
Optional for Wood Round Top units



V119
DRIP CAP-VINYL
- For use at Head Jamb.
For use with wood or clad unit including Brick Mould Casing.



V110
HINGED VINYL NAILING FIN
- For use with Clad Round Top Units

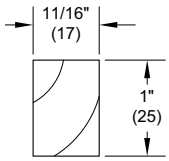
V112
HINGED VINYL NAILING FIN-SIDE
- For use at side jambs and sill for Bow and Bay assemblies

A100
DRIP CAP-ALUMINIUM

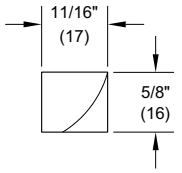
-For use at Head Jamb.
For use with wood or clad unit including
Brick Mould Casing.
Available in Bronze, Brown, Evergreen,
Pebble Gray and White

Jamb Extension

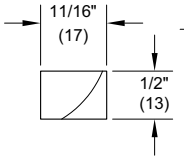
Not to Scale



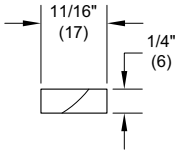
W6120 - 1" (25)
W6279 - 2' (51)
W6378 - 3" (76)
W6380 - 12" (305)



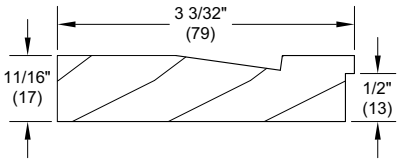
W6012
4 9/16" to 5 3/16"
(116 to 132)



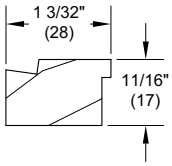
W6011
4 9/16" to 5 1/16"
(116 to 129)



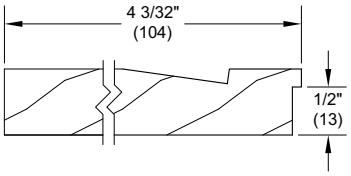
W6010
4 9/16" to 4 13/16"
(116 to 122)



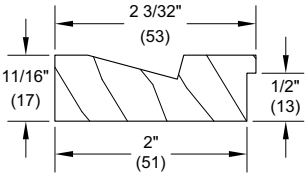
W1071 - 3" (76) For CUDH



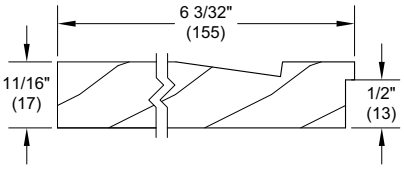
W2109 - 1" (25) For CUDH



W1069 - 4" (102) For CUDH



W2059 - 2" (51) For CUDH

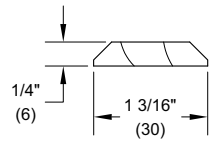


W1067 - 6" (152) For CUDH

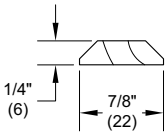
Interior Trim and Interior Round Top Trim

Not to Scale

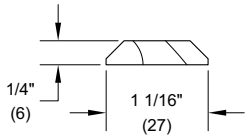
Interior Trim



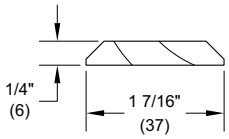
W1065 - Mullion Trim For CUDH Vertical



W1195 - Mullion Trim For Inswing French Door

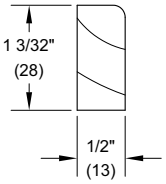


W1241 - Mullion Trim Tilt-Turn, Hopper

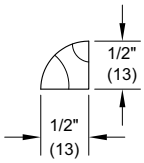


W1242 -Mullion Trim

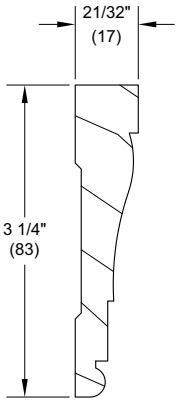
Interior Round Top (Available in Oak, Pine, or Cedro Macho)



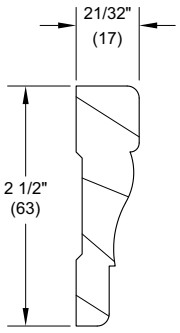
W7013 - Mullion Trim For RT and Polygon



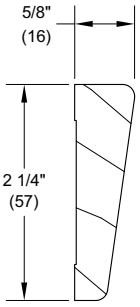
W7003 - Mullion Trim Inside Stop for Magnum Double Hung Picture Units



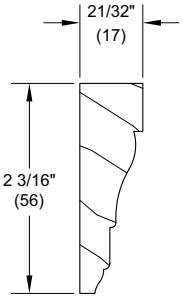
W1445- Used as optional interior casing for RT and Arch French Door Only



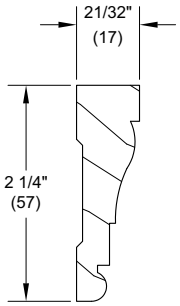
W1351 - Used as optional interior casing for RT and Arch French Door Only



W1144 - Used as optional interior casing for RT and Arch French Door Only



W1366 - Used as optional interior casing for RT and Arch French Door Only

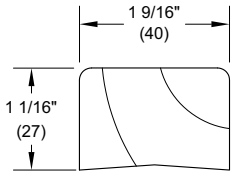


W1376 - Used as optional interior casing for RT and Arch French Door Only

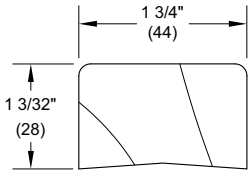
Wood Exterior Mullion Trim and Wood Exterior Casing

Not to Scale

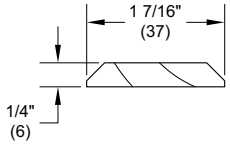
Wood Exterior Mullion Trim



W1034 - For Ultimate Gilder

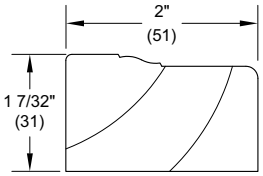


W1094 - For Magnum Double Hung

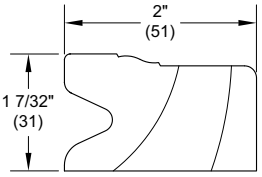


W1242 - for 3/8” Mullion Reinforcement

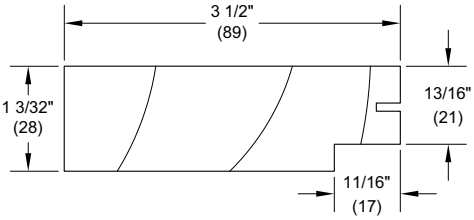
Exterior Casing



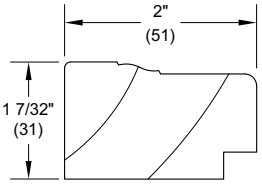
W1047 - Brick Mould Casing



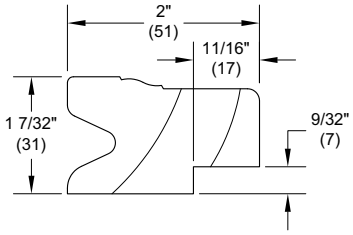
W1039 - Stucco Brick Mould Casing



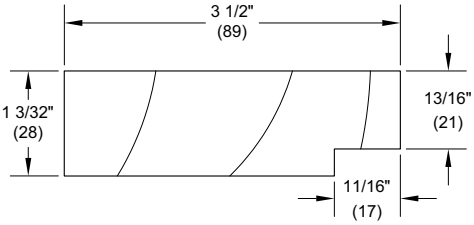
W1047 - Flat Casing
Top casing for Sliding, Swinging and French Doors Includes Screen Kerf



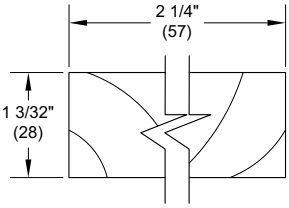
W6533 - Brick Mould Casing
For Sliding French Door



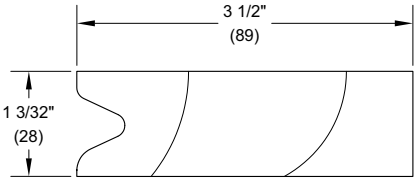
W1049 - Stucco Brick Mould Casing
Side Casing for Sliding, Swinging and French Doors



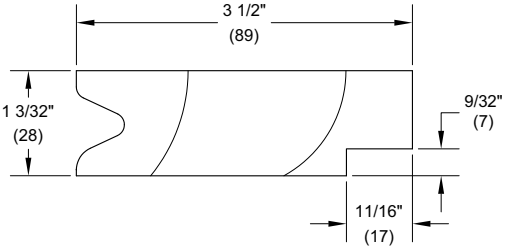
W1076 - Flat Casing
Side Casing for Sliding, Swinging and French Doors



Flat Casing
available from 2" to 10"



W1035 - Stucco Flat Casing
3 1/2” for top casing

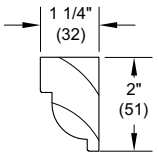


W1030 - Stucco Flat Casing
3 1/2” for side casing

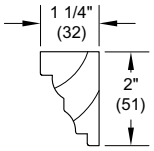
NOTE: 5/4 casing greater than 10", contact your Marvin representative

Wood Special Profile Exterior Casings

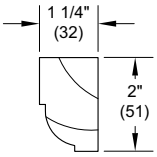
These sections illustrate the profile of each special casing and their dimensions. Each casing is labeled with its availability for lineal and/or round top units. Not all casings are applicable and varying conditions may require consideration for units including screens, combinations, mullions, etc. and may require extended sills. Illustrations shown are not to scale.



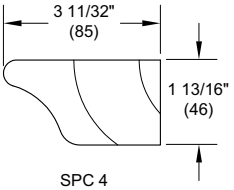
SPC 1
Lineal Only



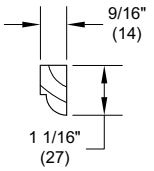
SPC 2
Lineal & Round Top



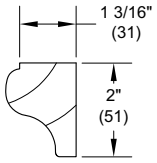
SPC 3
Lineal & Round Top



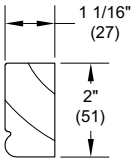
SPC 4
Lineal & Round Top



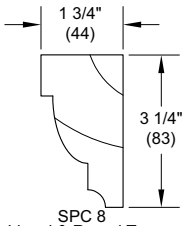
SPC 5
Lineal Only



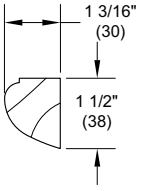
SPC 6
Lineal & Round Top



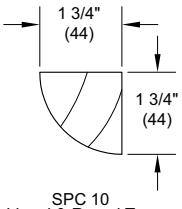
SPC 7
Lineal & Round Top



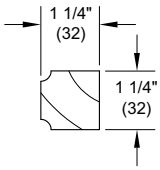
SPC 8
Lineal & Round Top



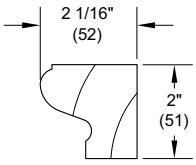
SPC 9
Lineal & Round Top



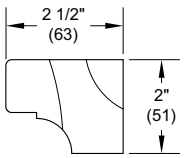
SPC 10
Lineal & Round Top



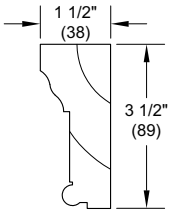
SPC 11
Lineal Only



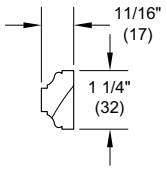
SPC 12
Lineal & Round Top



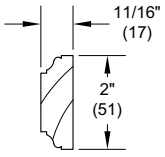
SPC 13
Lineal & Round Top



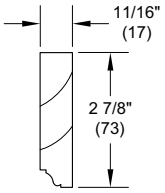
SPC 14
Lineal & Round Top



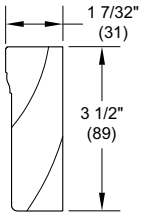
SPC 15
Lineal Only



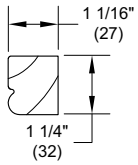
SPC 16
Lineal Only



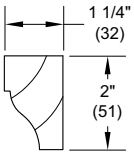
SPC 17
Lineal Only



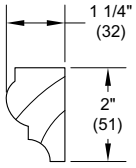
SPC 18
Lineal & Round Top



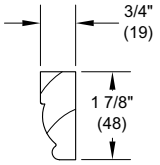
SPC 19
Lineal & Round Top



SPC 20
Lineal & Round Top



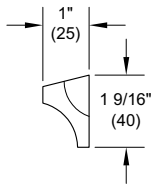
SPC 21
Lineal & Round Top



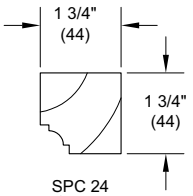
SPC 22
Lineal Only

Wood Special Profile Exterior Casings

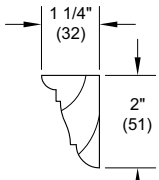
Not to Scale



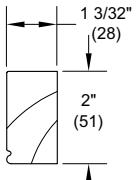
SPC 23
Lineal Only



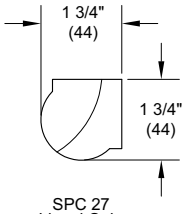
SPC 24
Lineal & Round Top



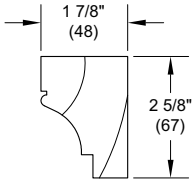
SPC 25
Lineal & Round Top



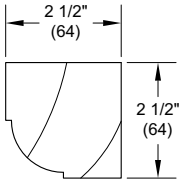
SPC 26
Lineal & Round Top



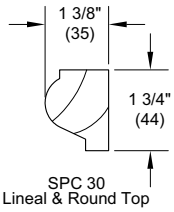
SPC 27
Lineal Only



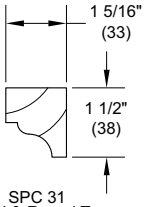
SPC28
Lineal & Round Top



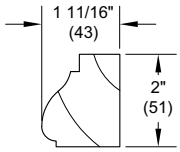
SPC29
Lineal & Round Top



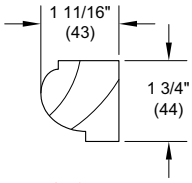
SPC 30
Lineal & Round Top



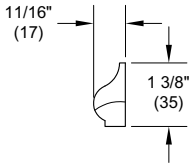
SPC 31
Lineal & Round Top



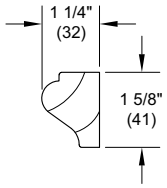
SPC 33
Lineal Only



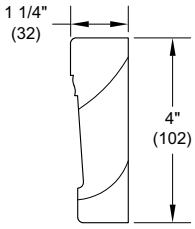
SPC 34
Lineal Only



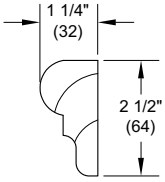
SPC 35
Lineal Only



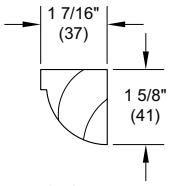
SPC 36
Lineal & Round Top



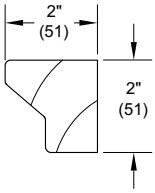
SPC 37
Lineal Only



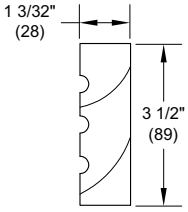
SPC 38
Lineal Only



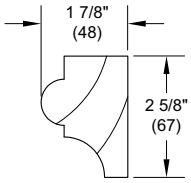
SPC 39
Lineal Only



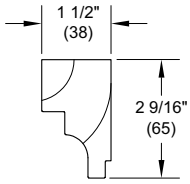
SPC 40
Lineal Only



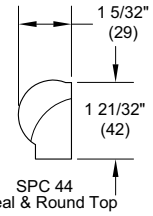
SPC 41
Lineal Only



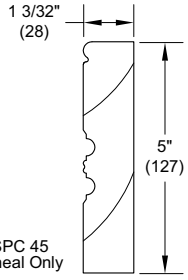
SPC 42
Lineal & Round Top



SPC 43
Lineal & Round Top



SPC 44
Lineal & Round Top

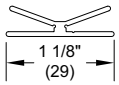


SPC 45
Lineal Only

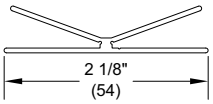
NOTE: Please contact your Marvin representative for specific information and requirements of special casing.

Clad Extrusion / Clad Casing

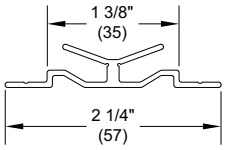
Not to Scale



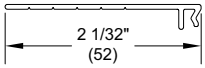
Mull Expander A107 - 1" (25)



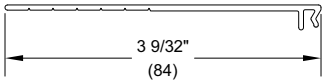
Mull Expander A108 - 2" (51)



Mull Expander 118 - 1" (25)

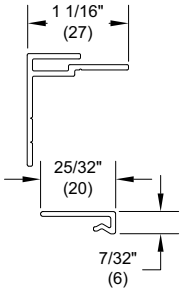


Frame Expander A110 - 2" (51)



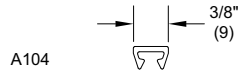
Frame Expander A109 - 3" (76)

Extender-Jamb Extension A126

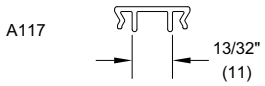


Frame Expander A120-90 Degree

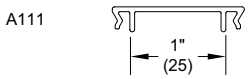
Side Trim A148-Applied at the perimeter of the unit to enclose opening at the space mullion



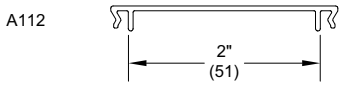
Mullion Cap A104



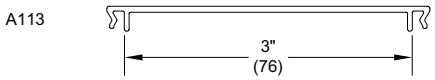
Mullion Cover A117 - 13/32" (11)



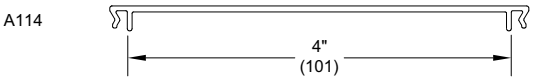
Mullion Cover A111 - 1" (25)



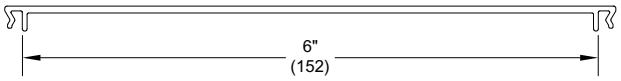
Mullion Cover A112 - 2" (51)



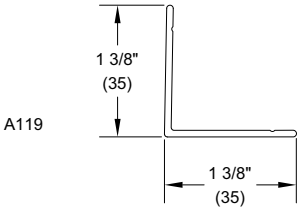
Mullion Cover A113 - 3" (76)



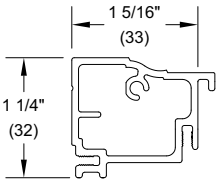
Mullion Cover A114 - 4" (102)



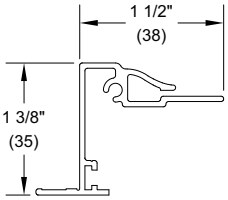
Mullion Cover A116 - 6" (152)



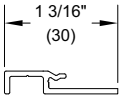
Corner Cover A119



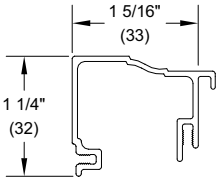
Clad Brick Mould Casing A898 Field Applied Only



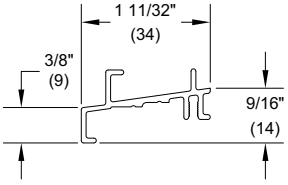
Adjustable Brick Mould A130



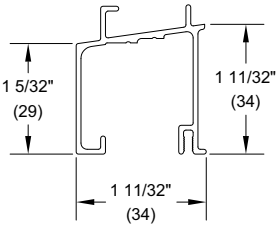
Sill Adapter A129 For use with A130



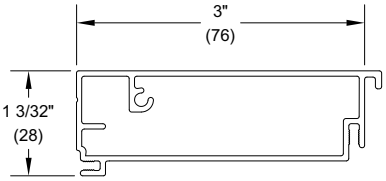
Clad Brick Mould Casing A797 Factory Applied



Clad Casing Subsill A246



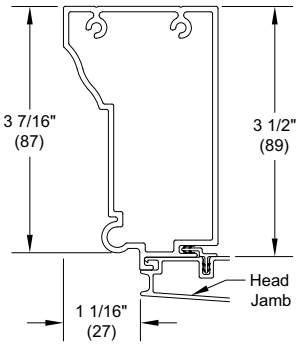
Clad Casing A217 For use with clad units



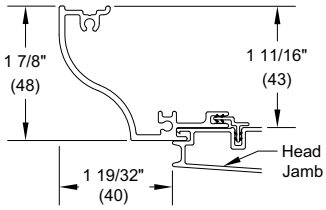
Clad Flat Casing A243

Clad Special Casing Profiles

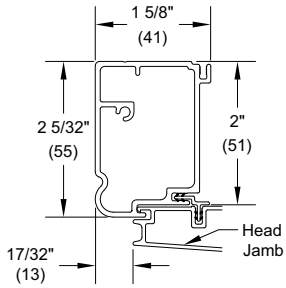
Not to Scale



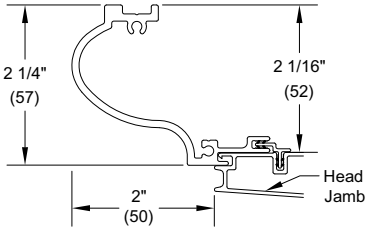
Columbus
A1440 Casing



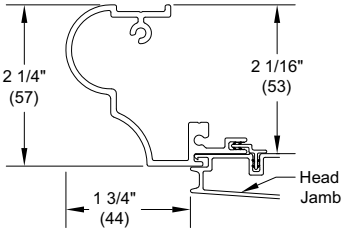
Thorton
A1443



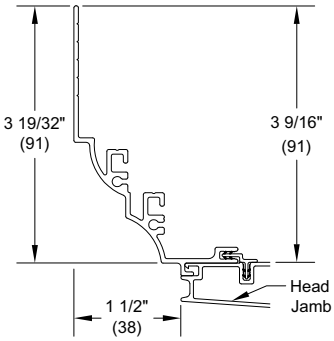
Grayson
A1442



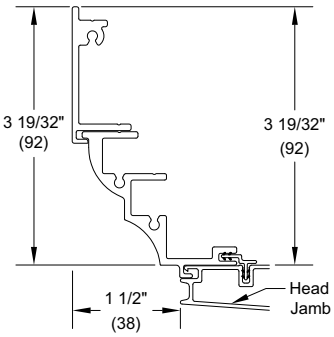
Ridgeland
A1446



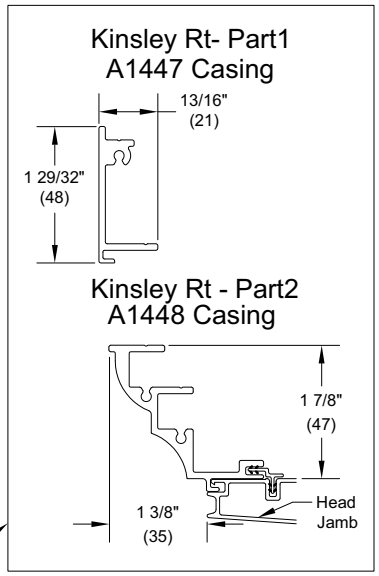
Stratton
A1449 Casing

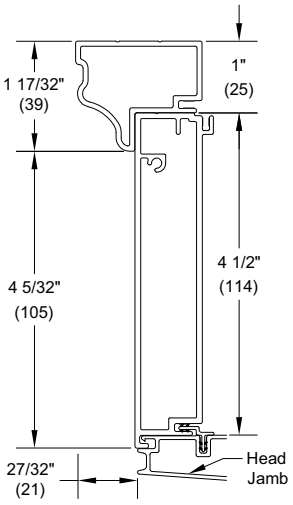


Kinsley
A1441 Casing

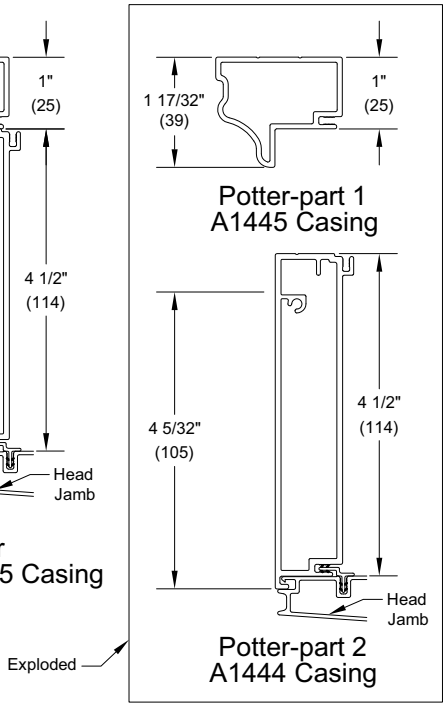


Kinsley Rt
A1447/ A1448 Casing



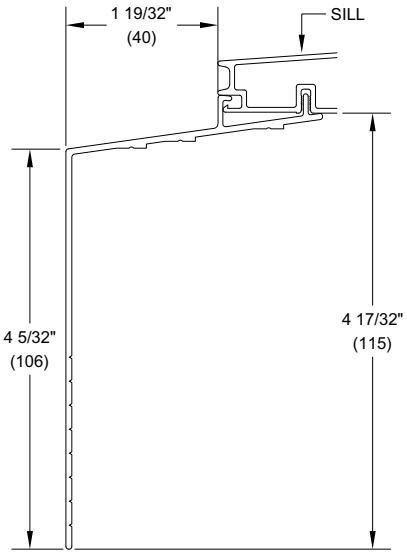


Potter
A1444/ A1445 Casing

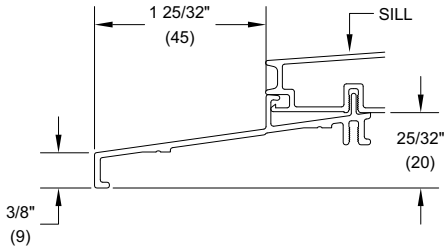


Clad Special Subsill Profiles

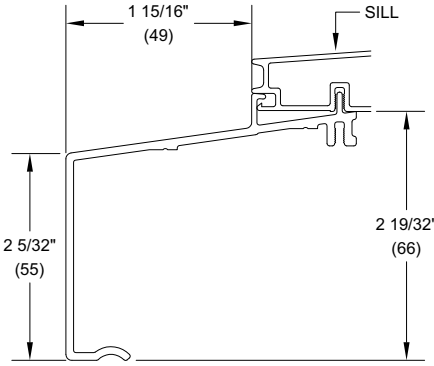
Not to Scale



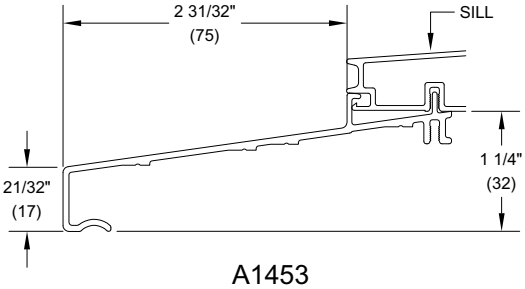
A1451



A1450



A1452



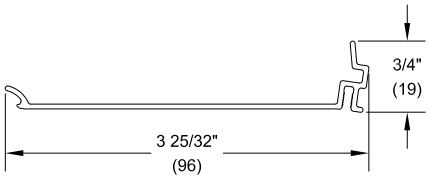
A1453

NOTE: Maximum R.O. width of 144 R.O. height 96 not to exceed 80 square feet.
Not all subsills are compatible with all casings. Please refer to detail pages for compatibility.

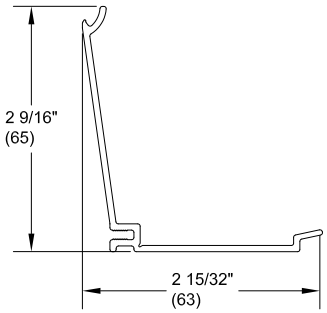
Lineal Subsill Caps / End Caps

Not to Scale

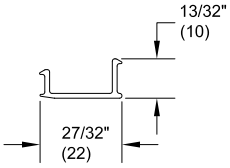
Lineal Subsill Caps



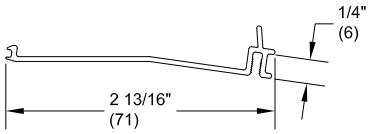
A1458 Subsill Lineal Cap
For A1453



A1460 Subsill Lineal Cap
For A1452

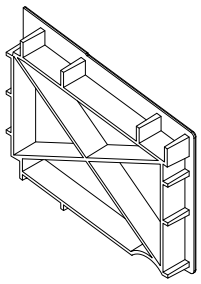


A1462 Subsill Lineal Cap
For A217

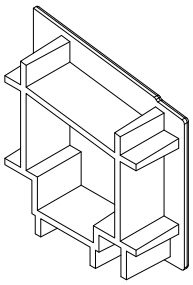


A1463 Subsill Lineal Cap
For A1450

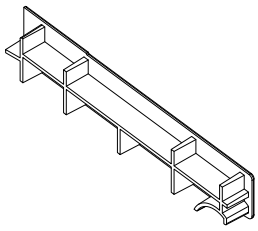
Subsill End Caps



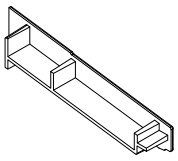
Subsill End Cap for A1452



Subsill End Cap for A217



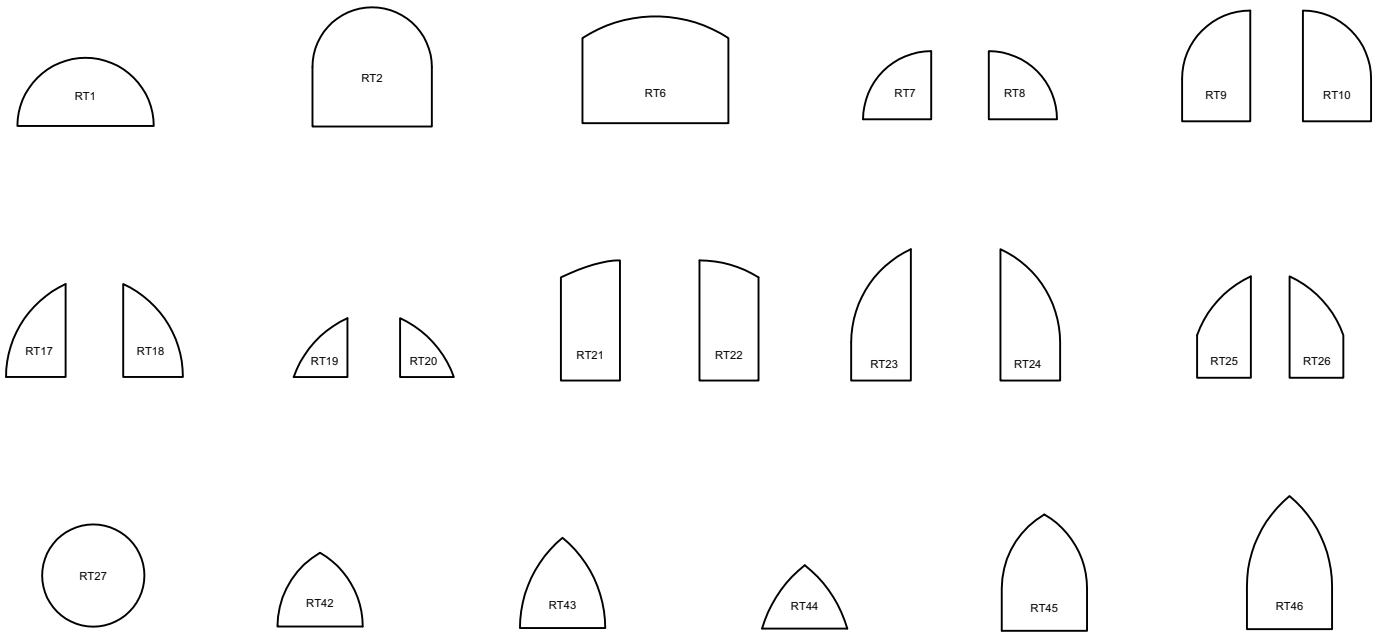
Subsill End Cap for A1453



Subsill End Cap for A1450

Round Top Shapes

Not to Scale



Minimum Frame Radius for Round Tops:

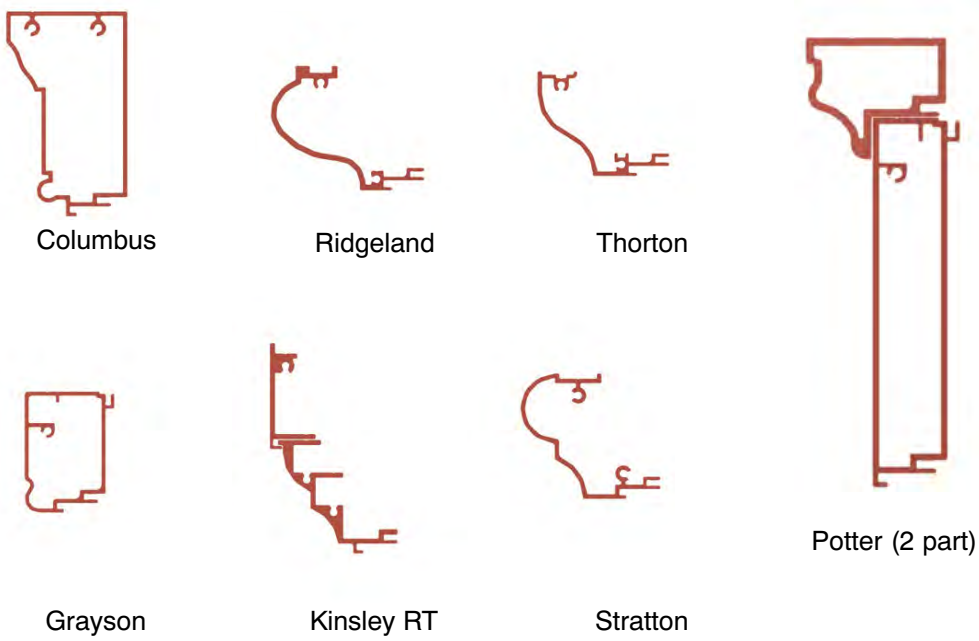
Kinsley RT 12 1/2" (318)

Ridgeland 18 1/2" (470)

Columbus, Grayson, Stratton, Thorton 20" (508)

Potter - 2 part 60" (1524)

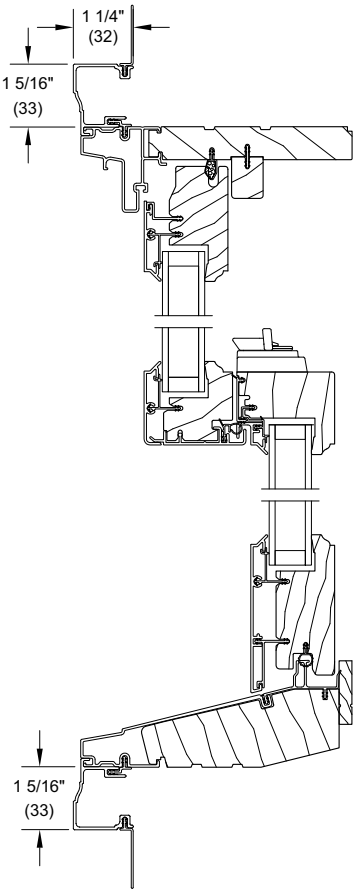
NOTE: The following casing apply to the shapes shown above.



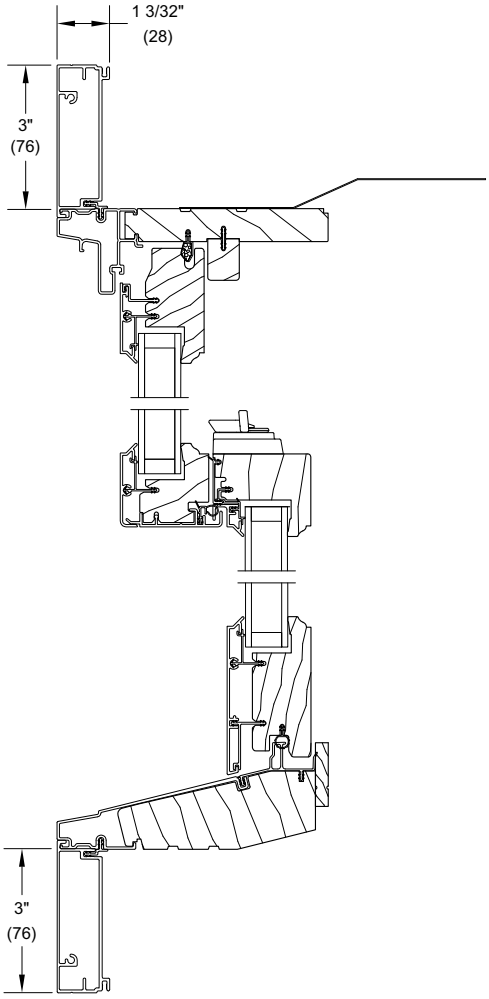
NOTE: Bows/Bays and Arch Top Doors require Architectural approval. For more information please contact your local Marvin representative

Clad Special Application for Windows - Casing All Sides

Not to Scale



Head Jamb and Sill
with Clad Brick Mould Casing
Four Sides

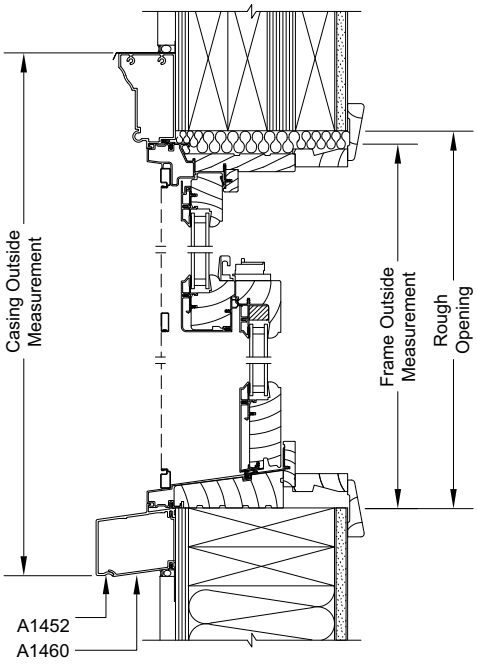


Head Jamb and Sill
with Clad Flat Casing
Four Sides

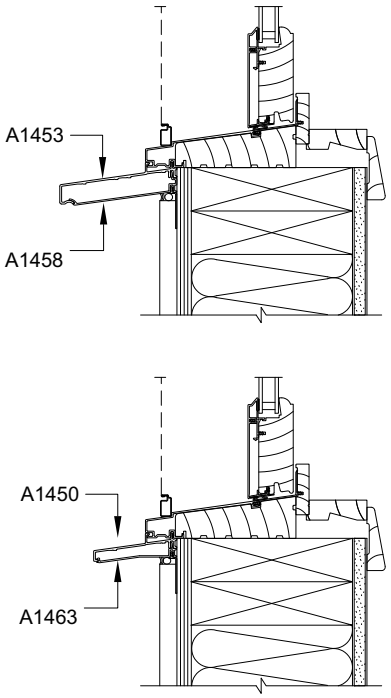
Unit Measurment		Width		Height	
From	To				
Rough Opening		in	mm	in	mm
Masonry Opening w/BMC (all sides)	Rough Opening	-2 1/8	(54)	-1 27/32	(47)
Masonry Opening w/Flat Casing (all sides)	Rough Opening	-5 1/2	(140)	-5 7/32	(133)

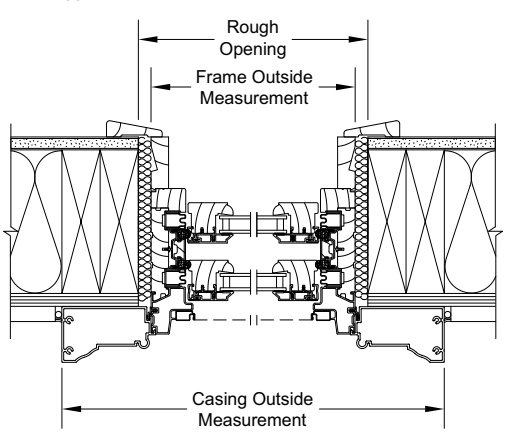
Clad Special Application for Windows - Columbus Casing Stick Construction

Not to Scale



Applicable subsills



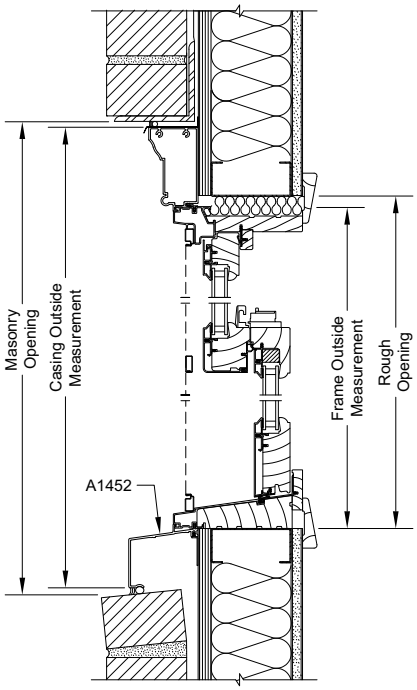


Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1440 Columbus	**A1450**	Width -1.0 Height -1/2	Width +7.0 Height +4 9/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +7.0 Height +8 1/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +7.0 Height +6 3/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +7.0 Height +4 3/4	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

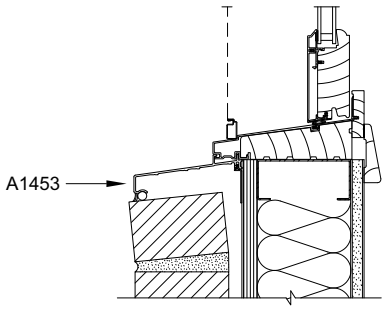
RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

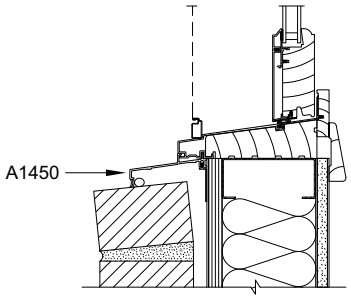
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

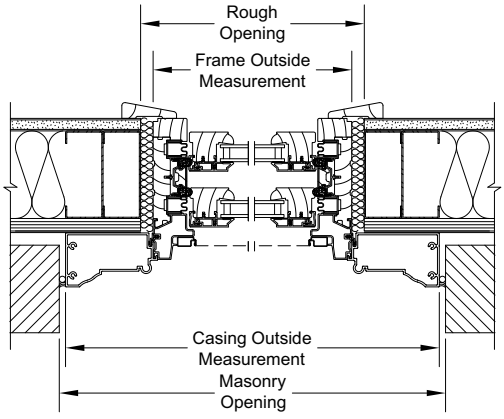
Clad Special Application for Windows - Columbus Casing Masonry Construction

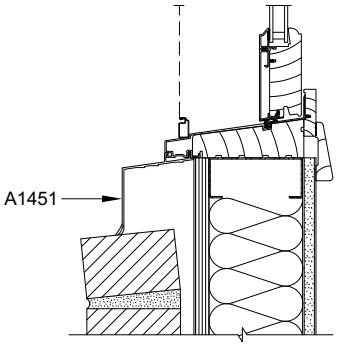


Applicable subsills







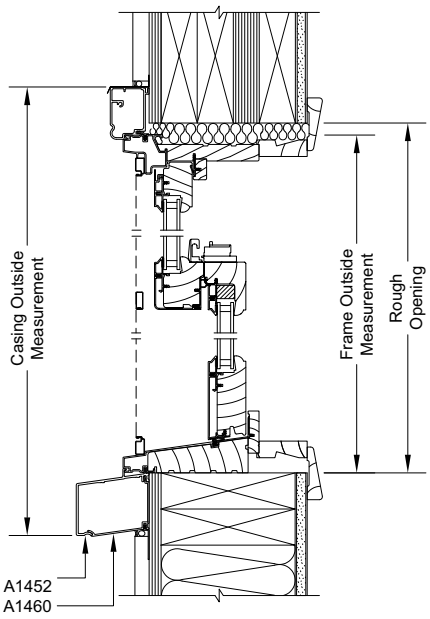


Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1440 Columbus	**A1450**	Width -1.0 Height -1/2	Width +7.0 Height +4 9/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +7.0 Height +8 1/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +7.0 Height +6 3/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +7.0 Height +4 3/4	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

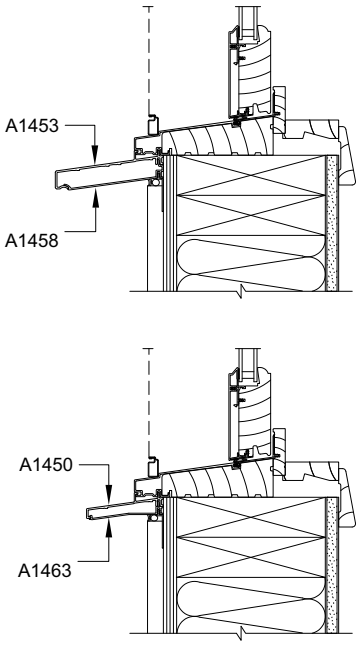
RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

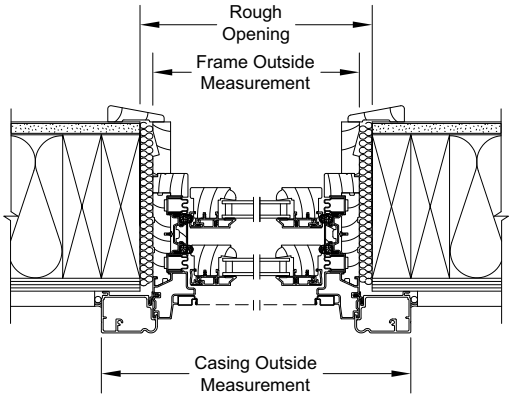
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

Clad Special Casing for Windows - Grayson Casing Stick Construction



Applicable subsills





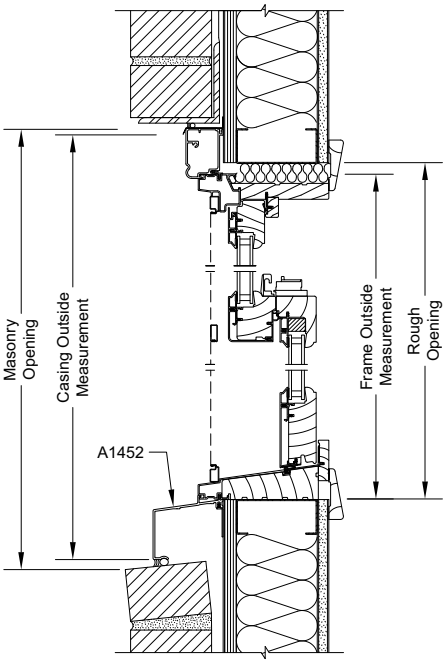
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1442 Grayson	**A1450**	Width -1.0 Height -1/2	Width +4.0 Height +2 25/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +4.0 Height +6 17/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +4.0 Height +4 19/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +4.0 Height +3 1/4	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

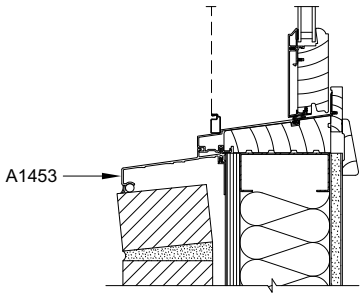
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

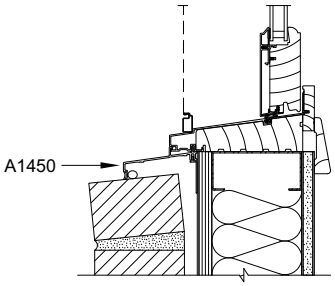
Clad Special Casing for Windows - Grayson Casing Masonry Construction

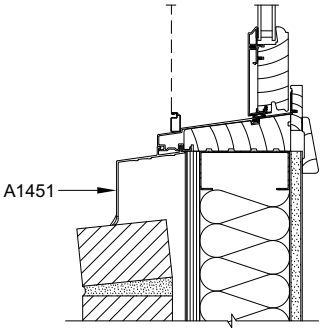
Not to Scale

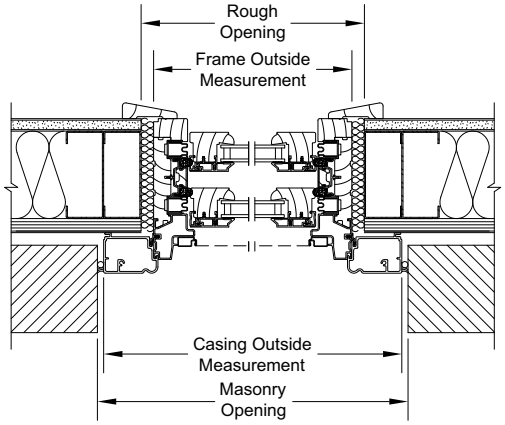


Applicable subsills









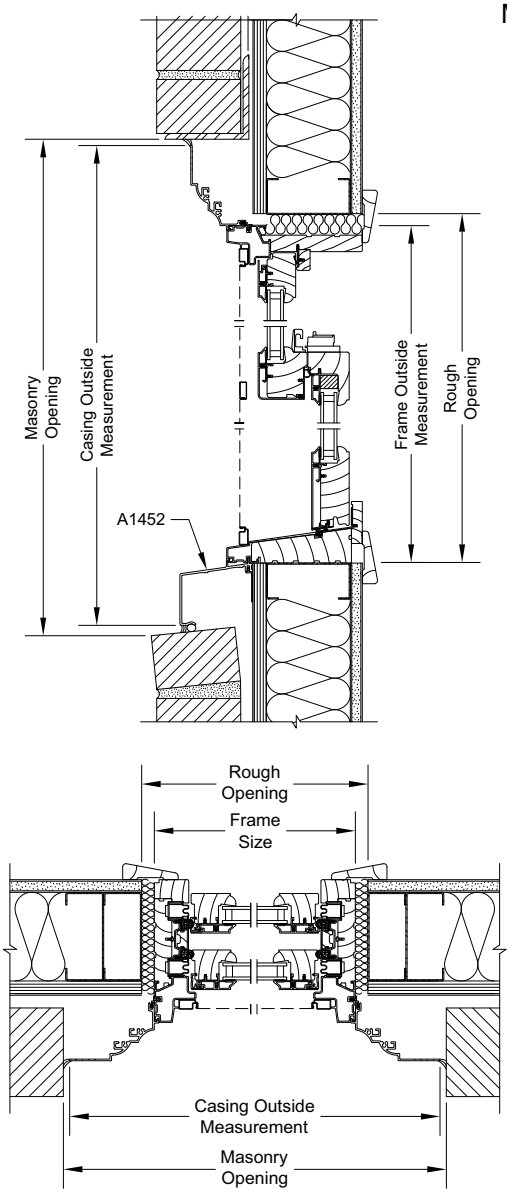
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1442 Grayson	**A1450**	Width -1.0 Height -1/2	Width +4.0 Height +2 25/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +4.0 Height +6 17/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +4.0 Height +4 19/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +4.0 Height +3 1/4	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

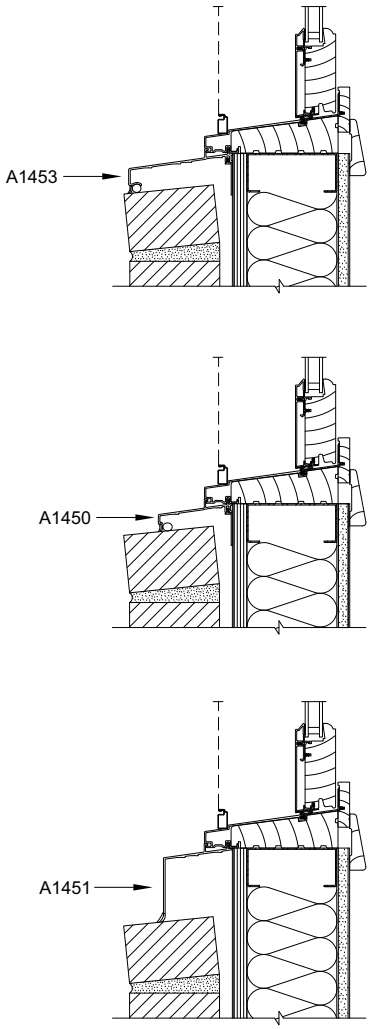
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

Clad Special Casing for Windows - Kinsley Casing Masonry Construction

Not to Scale



Applicable subsills



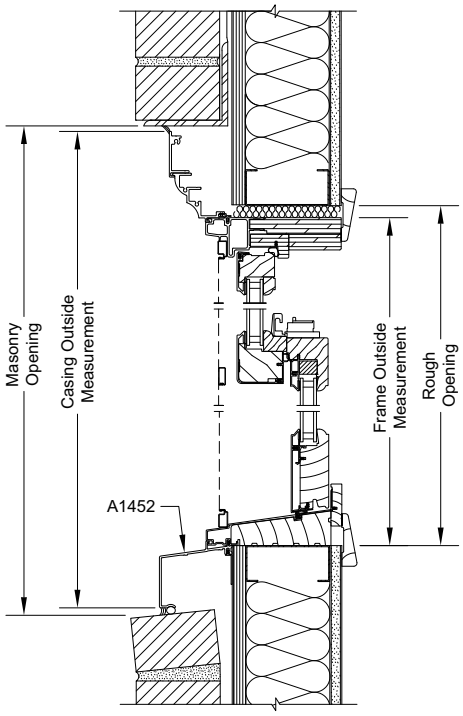
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1441 Kinsley	**A1450**	Width -1.0 Height -1/2	Width +7 3/16 Height +4 3/8	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +7 3/16 Height +8 1/8	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +7 3/16 Height +6 3/16	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +7 3/16 Height +4 27/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

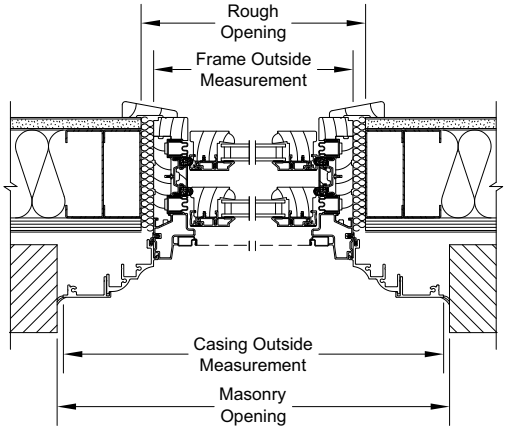
RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

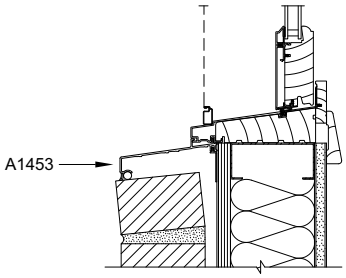
Clad Special Casing for Windows - Kinsley Round Top

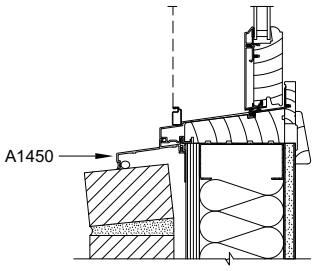
Not to Scale

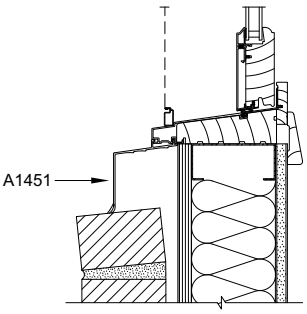




Applicable subsills







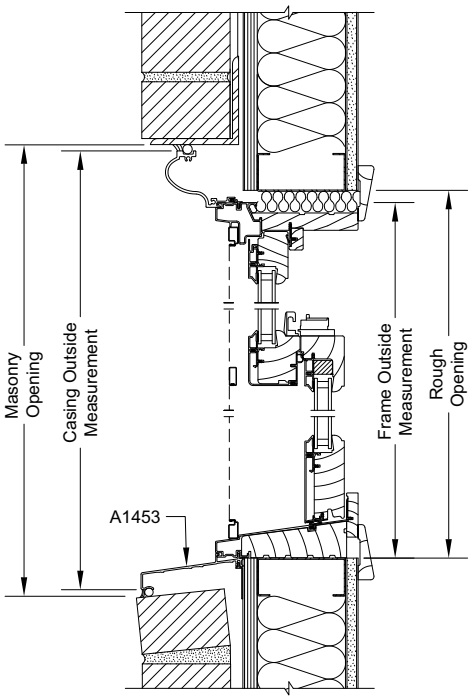
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1441/A1448 Kinsley RT	**A1450**	Width -1.0 Height -1/2	Width +7 3/16 Height +4 3/8	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +7 3/16 Height +8 1/8	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +7 3/16 Height +6 3/16	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +7 3/16 Height +4 27/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

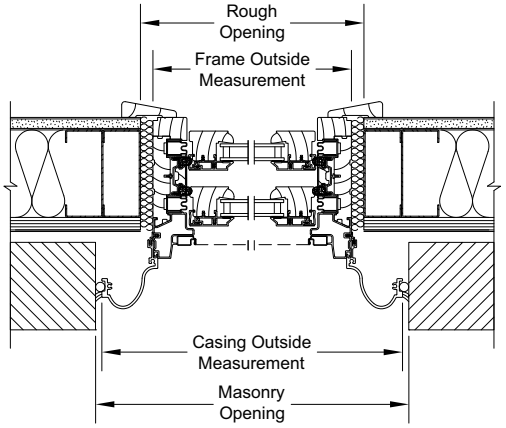
RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

Clad Special Casing for Windows - Ridgeland Casing Masonry Construction

Not to Scale





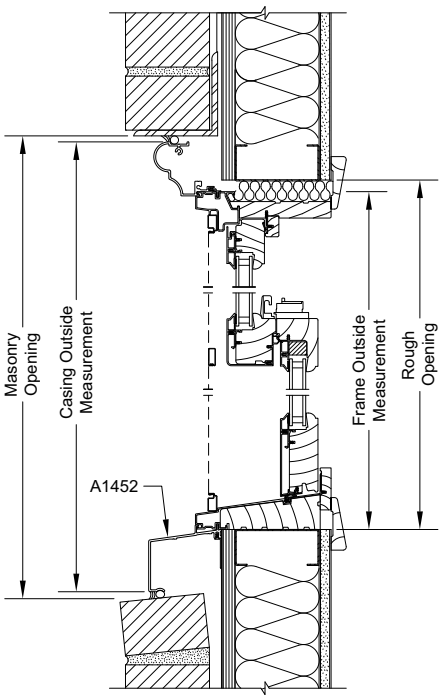
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1446	**A1453**	Width -1.0	Width +4 1/8	*Width COM + (Sealant Gap x 2)
Ridgeland		Height -1/2	Height +3 5/16	Height COM + (Sealant Gap x 1)

RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

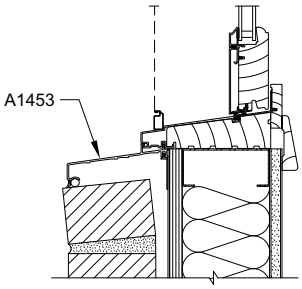
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

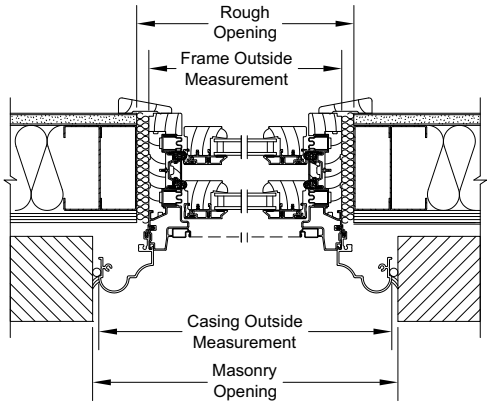
Clad Special Casing for Windows - Stratton Casing Masonry

Not to Scale



Applicable subsills





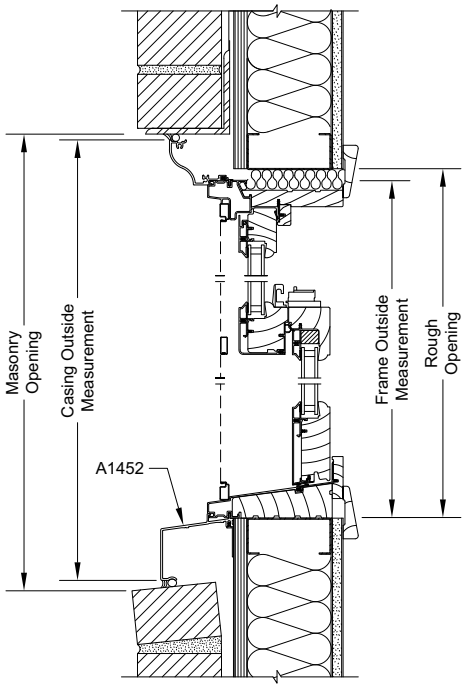
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1449 Stratton	**A1452**	Width -1.0 Height -1/2	Width +4 5/32 Height +4 21/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +4 5/32 Height +3 5/16	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

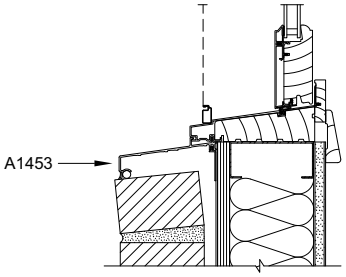
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

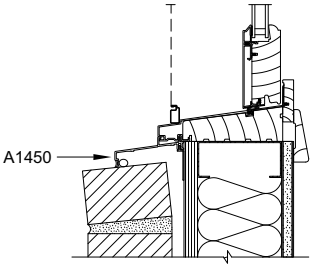
Clad Special Casing for Windows - Thorton Casing Masonry Construction

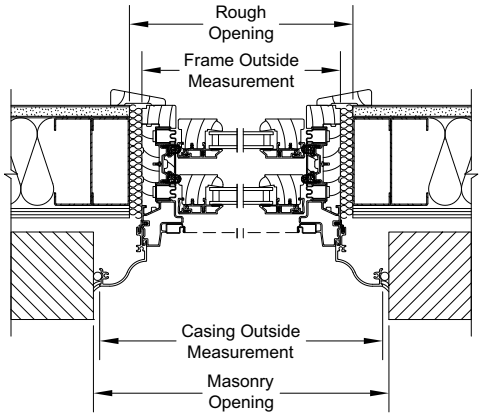
Not to Scale



Applicable subsills







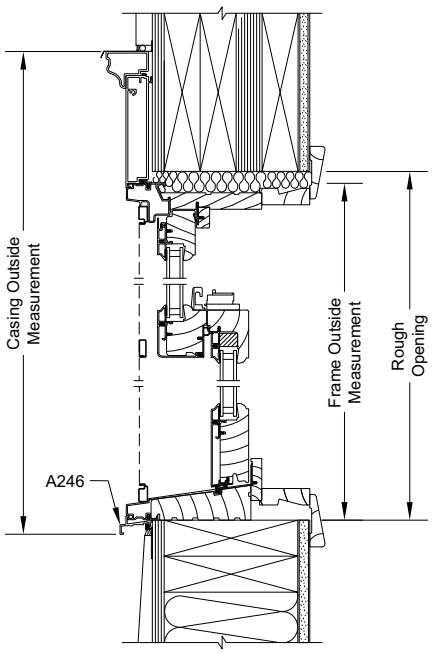
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1443 Thorton	**A1450**	Width -1.0 Height -1/2	Width +3 13/32 Height +2 15/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +3 13/32 Height +4 9/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +3 13/32 Height +2 15/16	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

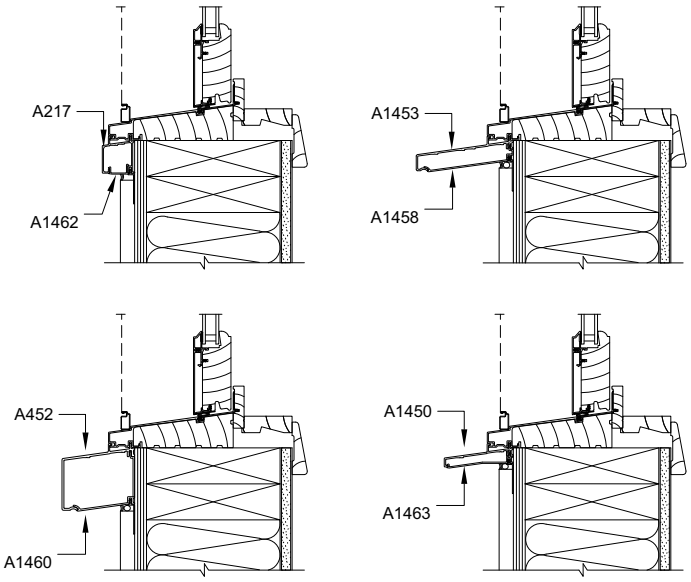
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

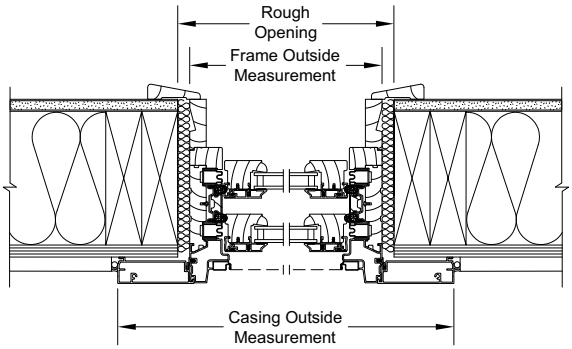
Clad Special Casing for Windows - Potter Casing Wood Frame Construction

Not to Scale



Applicable Subsills





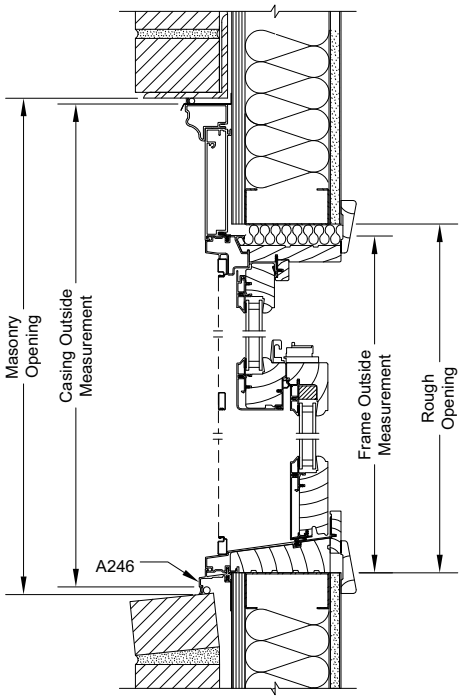
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1444/A1445 Potter	**A1450**	Width -1.0 Height -1/2	Width +6.0 Height +6 9/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +6.0 Height +10 1/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +6.0 Height +8 3/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +6.0 Height +6 3/4	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

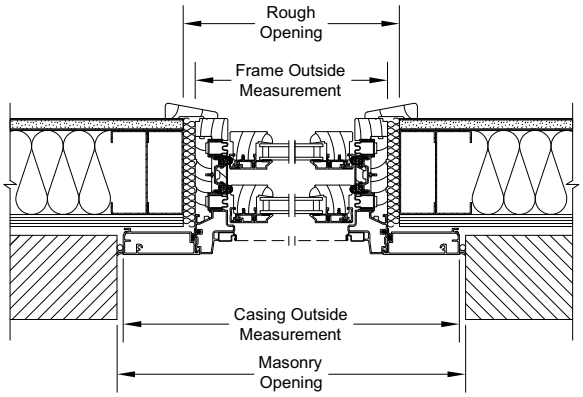
RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

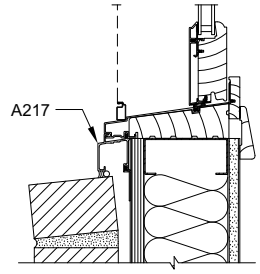
Clad Special Casing for Windows - Potter with Trim Casing Masonry Construction

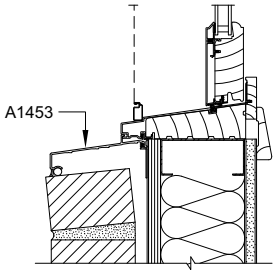
Not to Scale

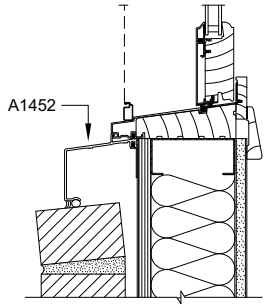


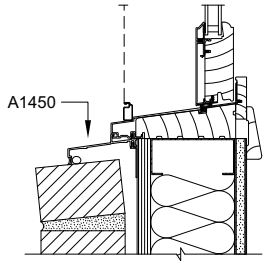


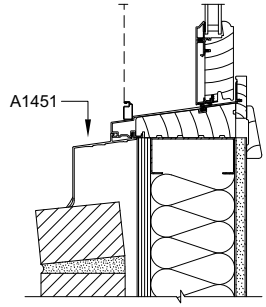
Applicable subsills











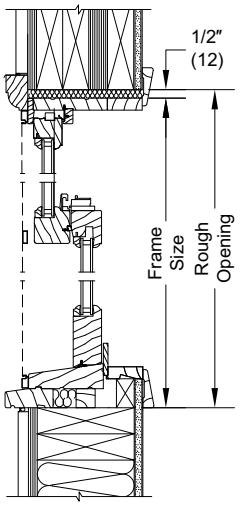
Measurement Conversions for Special Casing Windows				
Casing Type	**Subsill Type**	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1444/A1445 Potter w/Trim	**A1450**	Width -1.0 Height -1/2	Width +6.0 Height +6 9/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1451	Width -1.0 Height -1/2	Width +6.0 Height +10 1/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1452	Width -1.0 Height -1/2	Width +6.0 Height +8 3/32	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)
	A1453	Width -1.0 Height -1/2	Width +6.0 Height +6 3/4	*Width COM + (Sealant Gap x 2) Height COM + (Sealant Gap x 1)

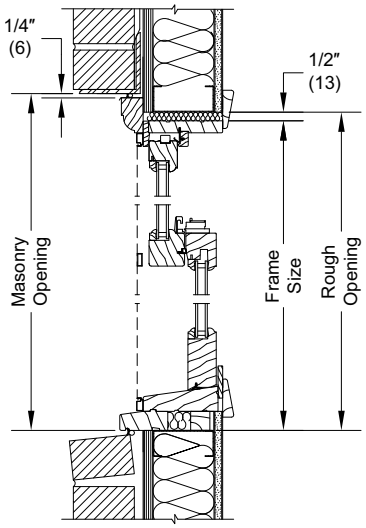
RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

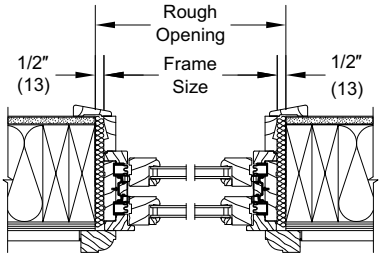
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

Wood Special Casing for Windows - Special Casing 3 (SPC3)

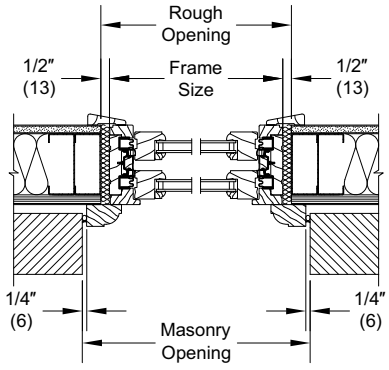
Not to Scale







WOOD SIDING W/ 2X6
FRAME CONSTRUCTION

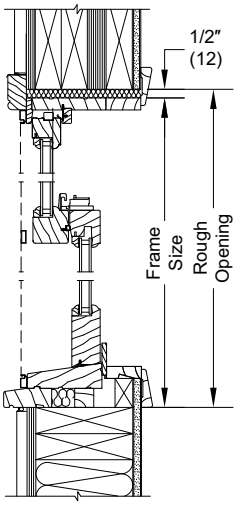


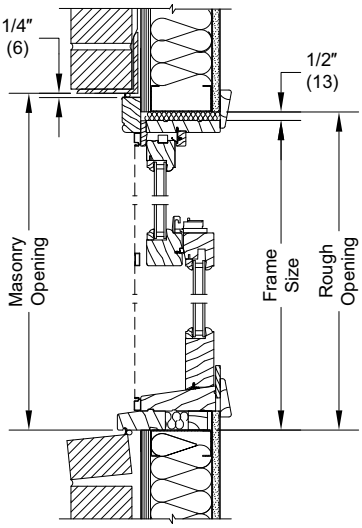
BRICK VENEER W/ STEEL
STUD CONSTRUCTION

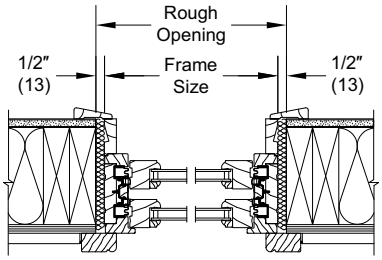
Unit Measurement			Width		Height	
From		To	in	mm	in	mm
WUCA Collection	Masonry Opening w/SPC3	Rough Opening	-2 5/8	(67)	-1 5/16	(33)
WUDH Collection	Masonry Opening w/SPC3	Rough Opening	-2 1/8	(54)	-1 1/16	(27)
Wood Direct Glaze	Masonry Opening w/SPC3	Rough Opening	-2 1/2	(64)	-1 1/4	(32)
Wood Tilt Turn	Masonry Opening w/SPC3	Rough Opening	-2 1/4	(57)	-1 11/16	(43)
All Doors	Masonry Opening w/SPC3	Rough Opening	-2 1/8	(54)	-1 1/16	(27)

Wood Special Casing for Windows - Special Casing 7 (SPC7)

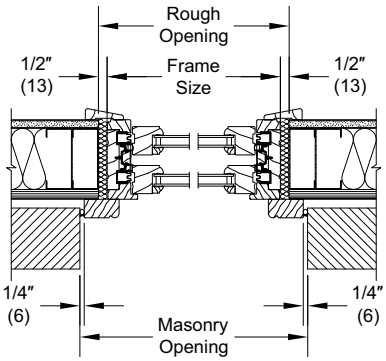
Not to Scale







WOOD SIDING W/ 2X6
FRAME CONSTRUCTION

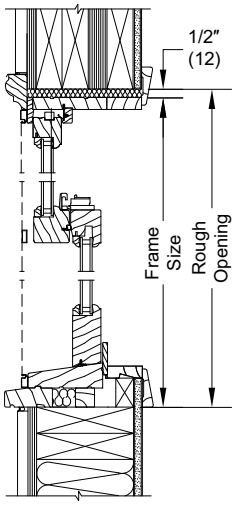


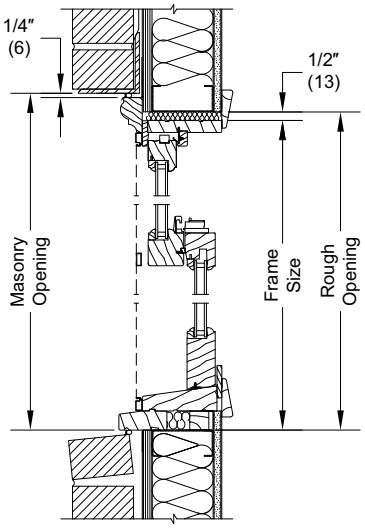
BRICK VENEER W/ STEEL
STUD CONSTRUCTION

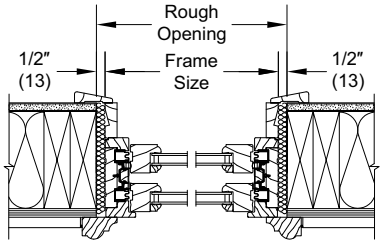
Unit Measurement			Width		Height	
From		To	in	mm	in	mm
WUCA Collection	Masonry Opening w/SPC7	Rough Opening	-2 5/8	(67)	-1 5/16	(33)
WUDH Collection	Masonry Opening w/SPC7	Rough Opening	-2 1/8	(54)	-1 1/16	(27)
Wood Direct Glaze	Masonry Opening w/SPC7	Rough Opening	-2 1/2	(64)	-1 1/4	(32)
Wood Tilt Turn	Masonry Opening w/SPC7	Rough Opening	-2 1/4	(57)	-1 11/16	(43)
All Doors	Masonry Opening w/SPC7	Rough Opening	-2 1/8	(54)	-1 1/16	(27)

Wood Special Casing for Windows - Special Casing 21 (SPC21)

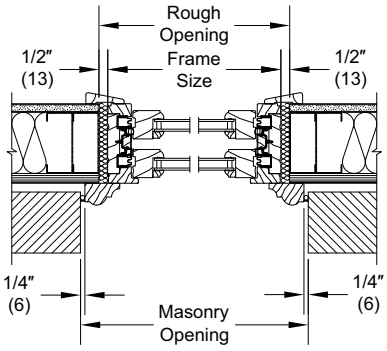
Not to Scale







WOOD SIDING W/ 2X6
FRAME CONSTRUCTION

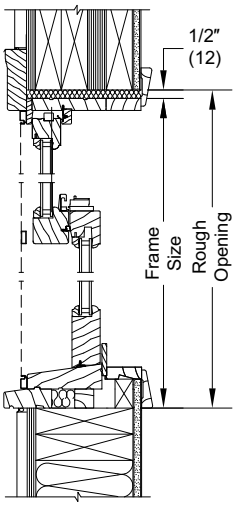


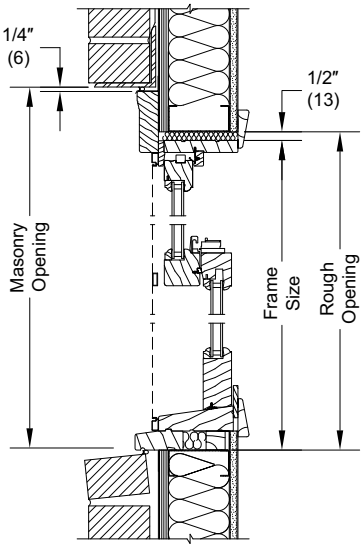
BRICK VENEER W/ STEEL
STUD CONSTRUCTION

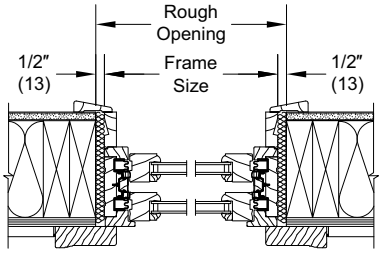
Unit Measurement			Width		Height	
From		To	in	mm	in	mm
WUCA Collection	Masonry Opening w/SPC21	Rough Opening	-2 5/8	(67)	-1 5/16	(33)
WUDH Collection	Masonry Opening w/SPC21	Rough Opening	-2 1/8	(54)	-1 1/16	(27)
Wood Direct Glaze	Masonry Opening w/SPC21	Rough Opening	-2 1/2	(64)	-1 1/4	(32)
Wood Tilt Turn	Masonry Opening w/SPC21	Rough Opening	-2 1/4	(57)	-1 11/16	(43)
All Doors	Masonry Opening w/SPC21	Rough Opening	-2 1/8	(54)	-1 1/16	(27)

Wood Special Casing for Windows - Special Casing 18 (SPC18)

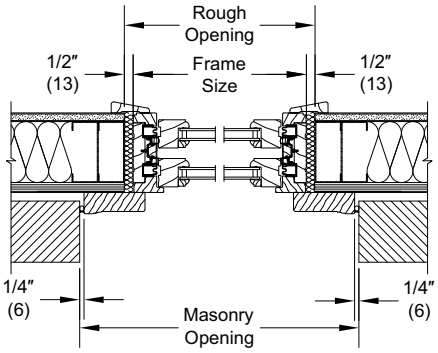
Not to Scale







WOOD SIDING W/ 2X6
FRAME CONSTRUCTION

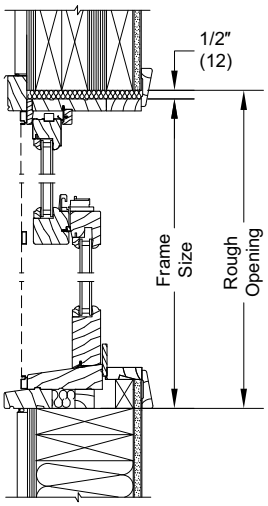


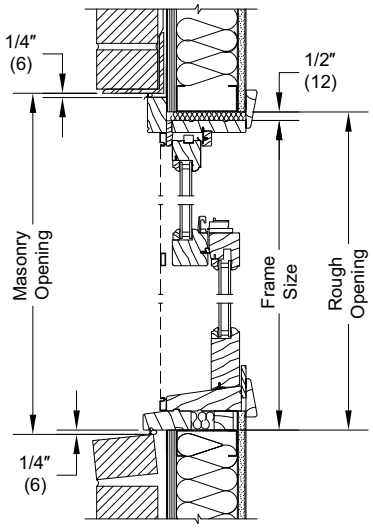
BRICK VENEER W/ STEEL
STUD CONSTRUCTION

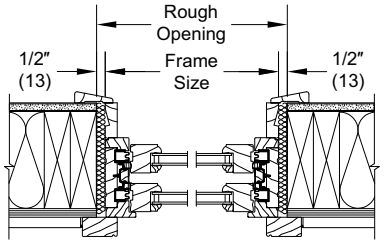
Unit Measurement			Width		Height	
From		To	in	mm	in	mm
WUCA Collection	Masonry Opening w/SPC18	Rough Opening	-5 5/8	(143)	-2 13/16	(71)
WUDH Collection	Masonry Opening w/SPC18	Rough Opening	-5 1/8	(130)	-2 9/16	(65)
Wood Direct Glaze	Masonry Opening w/SPC18	Rough Opening	-5 1/2	(140)	-2 3/4	(70)
Wood Tilt Turn	Masonry Opening w/SPC18	Rough Opening	-5 1/4	(133)	-3 3/16	(81)
All Doors	Masonry Opening w/SPC18	Rough Opening	-5 1/8	(130)	-2 9/16	(65)

Wood Special Casing for Windows - Special Casing 26 (SPC26)

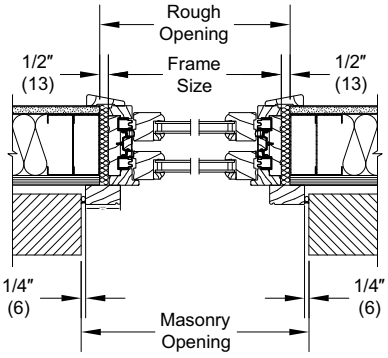
Not to Scale







WOOD SIDING W/ 2X6
FRAME CONSTRUCTION

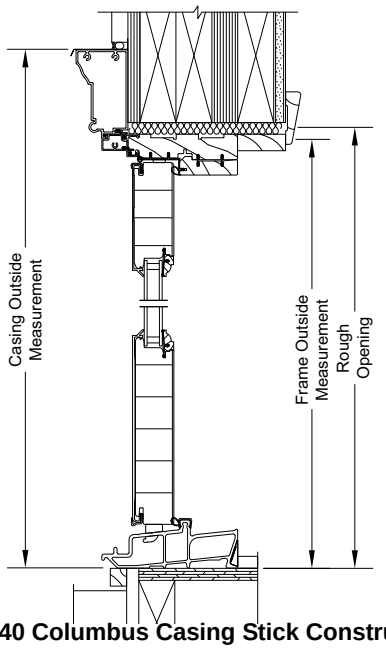


BRICK VENEER W/ STEEL
STUD CONSTRUCTION

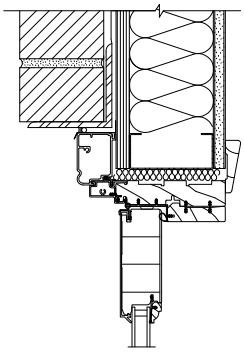
Unit Measurement			Width		Height	
From		To	in	mm	in	mm
WUCA Collection	Masonry Opening w/SPC26	Rough Opening	-2 5/8	(67)	-1 5/16	(33)
WUDH Collection	Masonry Opening w/SPC26	Rough Opening	-2 1/8	(54)	-1 1/16	(27)
Wood Direct Glaze	Masonry Opening w/SPC26	Rough Opening	-2 1/2	(64)	-1 1/4	(32)
Wood Tilt Turn	Masonry Opening w/SPC26	Rough Opening	-2 1/4	(57)	-1 11/16	(43)
All Doors	Masonry Opening w/SPC26	Rough Opening	-2 1/8	(54)	-1 1/16	(27)

Clad Special Casing for Doors - Wood Frame Construction - All Casings Options

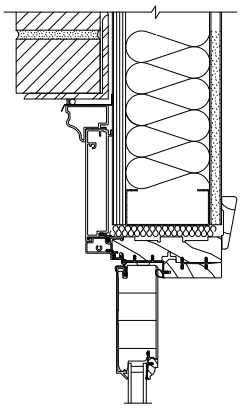
Not to Scale



A1440 Columbus Casing Stick Construction



A1442 Grayson Casing



A14424/1445 2 Pc. Potter Casing

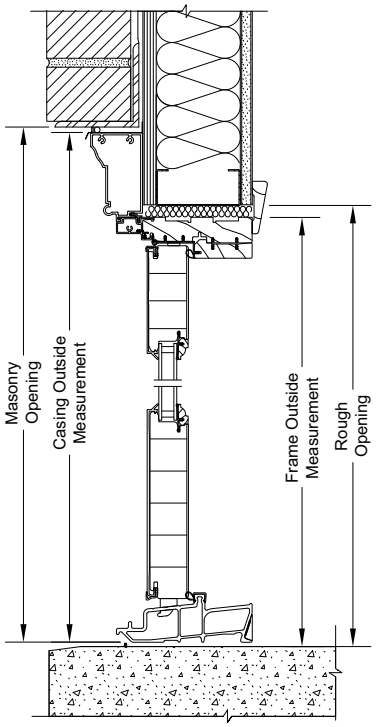
Measurement Conversions for Special Casing Doors			
Casing Type	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1440	Width -1.0	Width +7.0	*Width COM + (Sealant Gap x 2)
Columbus	Height -1/2	Height +3 1/2	Height COM + (Sealant Gap x 1)
A1442	Width -1.0	Width +4.0	*Width COM + (Sealant Gap x 2)
Grayson	Height -1/2	Height +2.0	Height COM + (Sealant Gap x 1)
A1441	Width -1.0	Width +7 3/16	*Width COM + (Sealant Gap x 2)
Kinsley	Height -1/2	Height +3 19/32	Height COM + (Sealant Gap x 1)
A1447/A1448	Width -1.0	Width +7 3/16	*Width COM + (Sealant Gap x 2)
Kinsley RT	Height -1/2	Height +3 19/32	Height COM + (Sealant Gap x 1)
A1446	Width -1.0	Width +4 1/8	*Width COM + (Sealant Gap x 2)
Ridgeland	Height -1/2	Height +2 1/16	Height COM + (Sealant Gap x 1)
A1449	Width -1.0	Width +4 5/32	*Width COM + (Sealant Gap x 2)
Stratton	Height -1/2	Height +2 1/16	Height COM + (Sealant Gap x 1)
A1443	Width -1.0	Width +3 13/32	*Width COM + (Sealant Gap x 2)
Thorton	Height -1/2	Height +1 11/16	Height COM + (Sealant Gap x 1)
A1444/A1445	Width -1.0	Width +6.0	*Width COM + (Sealant Gap x 2)
Potter	Height -1/2	Height +5 1/2	Height COM + (Sealant Gap x 1)

RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

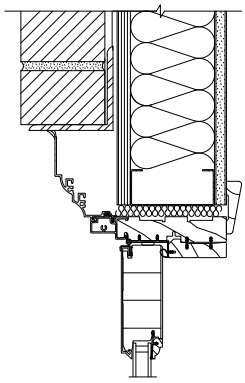
NOTE: Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

Clad Special Casing for Doors - Masonry Construction - All Casing Options

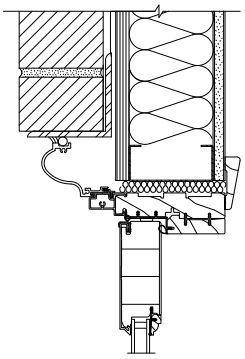
Not to Scale



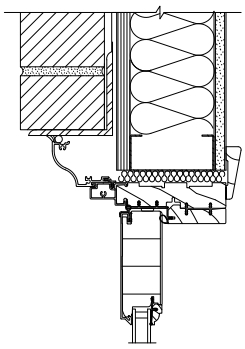
A14442 Grayson Casing
Masonry Construction



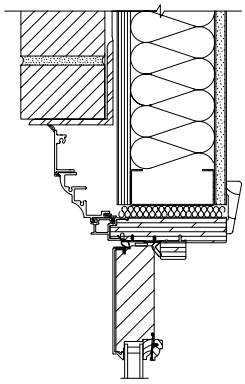
A1441 Kinsley Casing



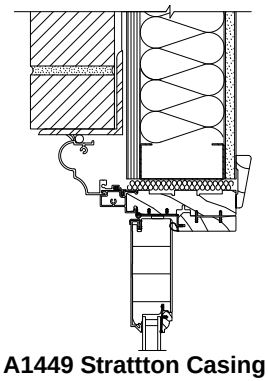
A1446 Ridgeland Casing



A1443 Thorton Casing



A1447/A1448
Kinsley RT Casing



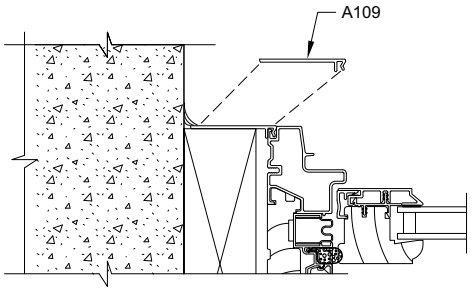
A1449 Strattton Casing

Sealant gap to be determined by others. Minimum of 1/4" on all four sides recommended

Measurement Conversions for Special Casing Doors			
Casing Type	**RO to FOM**	**FOM to COM**	**Masonry Opening**
A1440	Width -1.0	Width +7.0	*Width COM + (Sealant Gap x 2)
Columbus	Height -1/2	Height +3 1/2	Height COM + (Sealant Gap x 1)
A1442	Width -1.0	Width +4.0	*Width COM + (Sealant Gap x 2)
Grayson	Height -1/2	Height +2.0	Height COM + (Sealant Gap x 1)
A1441	Width -1.0	Width +7 3/16	*Width COM + (Sealant Gap x 2)
Kinsley	Height -1/2	Height +3 19/32	Height COM + (Sealant Gap x 1)
A1447/A1448	Width -1.0	Width +7 3/16	*Width COM + (Sealant Gap x 2)
Kinsley RT	Height -1/2	Height +3 19/32	Height COM + (Sealant Gap x 1)
A1446	Width -1.0	Width +4 1/8	*Width COM + (Sealant Gap x 2)
Ridgeland	Height -1/2	Height +2 1/16	Height COM + (Sealant Gap x 1)
A1449	Width -1.0	Width +4 5/32	*Width COM + (Sealant Gap x 2)
Stratton	Height -1/2	Height +2 1/16	Height COM + (Sealant Gap x 1)
A1443	Width -1.0	Width +3 13/32	*Width COM + (Sealant Gap x 2)
Thorton	Height -1/2	Height +1 11/16	Height COM + (Sealant Gap x 1)
A1444/A1445	Width -1.0	Width +6.0	*Width COM + (Sealant Gap x 2)
Potter	Height -1/2	Height +5 1/2	Height COM + (Sealant Gap x 1)

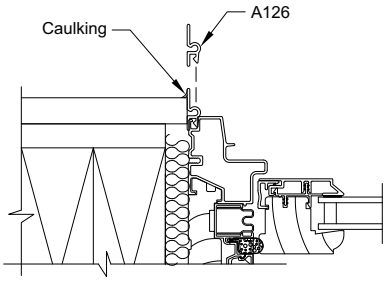
RO: Rough Opening
FOM: Frame Outside Measurement
COM: Casing Outside Measurement

Clad Applications



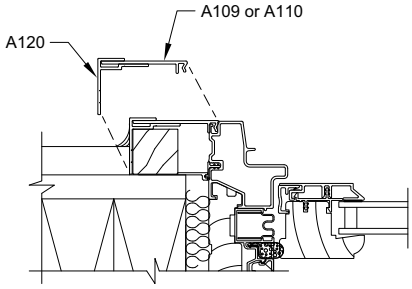
Frame Expander

A109 or A110. Used to seal the outer edge by caulking in between the expander and the wall. Frame expander includes intermediate break points to achieve additional widths.



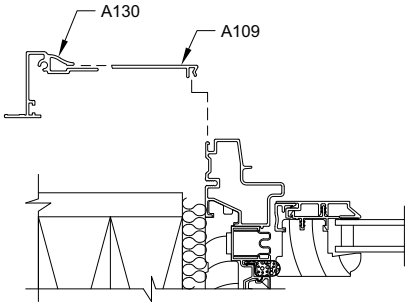
Exterior Frame Extender

Used to extend the clad frame past the building siding. Important: Caulking is required to seal between the frame extender and the building exterior.



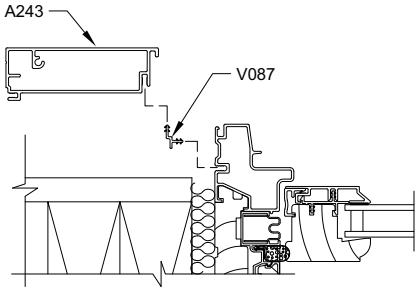
Frame Expander and 90 Degree Frame Expander

A109 or A110 with A120. Used to simulate clad flat casing in various widths.



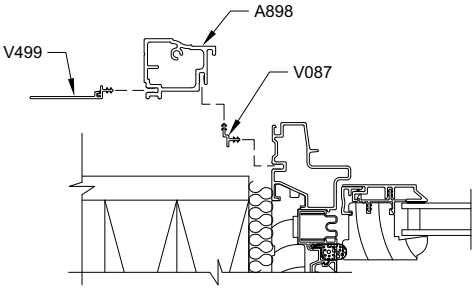
Clad Adjustable Brick Mould Casing

Used with A109 or A110 to create an adjustable width Brick Mould Casing for Clad units.



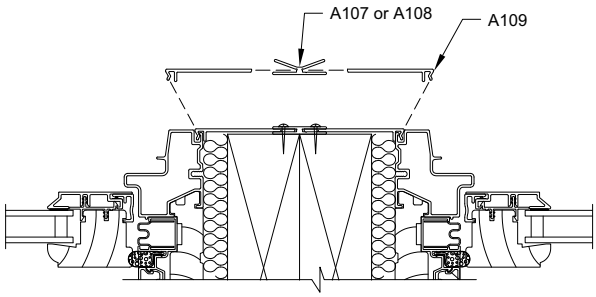
Clad Flat Casing

Used to simulate a wood casing for clad units.



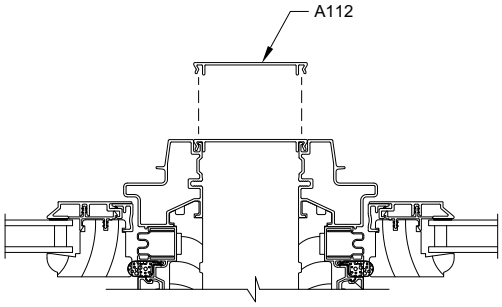
Clad Brick Mould Casing

Used to simulate a wood Brick Mould Casing for Clad units.



Frame Expander with Mullion Expander

A109 or A110 with A107 or A108. Used to create a solid color matched facade between mulled clad units.



Mullion Cover

Used to create a color matched facade between mulled clad units, available in various widths, refer to Clad Extrusions.

NOTE: All accessories are field applied by others, construction materials supplied by others.

THE INNOVATION BEHIND THE BEAUTY

View chapters of our Double Hung video and see what makes it our most revolutionary window yet.


Heritage


Craftsmanship


Innovation


Quality & Performance


How to Operate

find a DEALER

DOWNLOAD THE BROCHURE

FEATURES, OPTIONS, AND SPECIFICATIONS

Divided Lite Options

Marvin has a variety of ways to bring out the best in your window designs:

- **Simulated Divided Lite with Spacer Bar (SDLS)** - an energy-efficient way to create the look of divided lites. SDLS bars are permanently adhered to both sides of the glass. A spacer bar is installed between the glass, creating the essence of Authentic Divided Lites.
- **Simulated Divided Lite (SDL)** - SDL bars are permanently adhered to both sides of the glass.
- **Grilles-between-the-Glass (GBGs)** - Grilles are permanently installed between the glass panes. This low-maintenance option creates the look of divided lites.

- **GBGs Color Choices for Exterior and Interior** - Color options allow for two tone grilles-between-the-glass. Choose from 13 exterior colors or 4 interior colors.
- **Removable Grilles** - Solid wood Grilles on the interior offer the look of a classic divided lites, but can be easily removed for cleaning.


Simulated Divided Lite with Spacer Bar (SDLS)


Simulated Divided Lite (SDL)


Grilles-between-the-Glass (GBGs)


GBGs Exterior and Interior Color

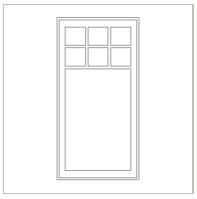

Removable Grilles

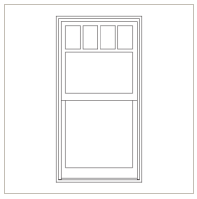
Divided Lite Patterns

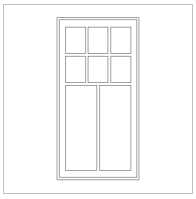
Marvin's custom capabilities allow us to create almost any divided lite pattern you can dream up. Divides lites can feature an array of muntin widths, unique muntin profiles, rectangular or radius cuts and more. Choose from an existing lite cut, specify custom divided lites according to a new design or ask our design professionals to assist in creating a pattern for your needs.

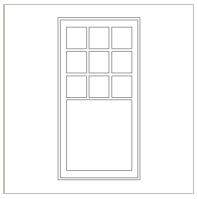
The result is a window or door that combines the detailing and craftsmanship of a small millwork house with the product performance delivered by an industry leader.

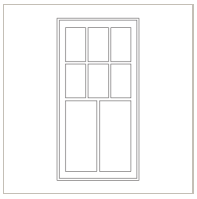
Below are some of our most frequently-requested divided-lite patterns:

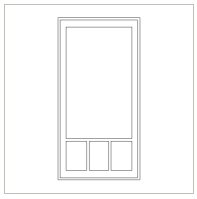

Cottage A

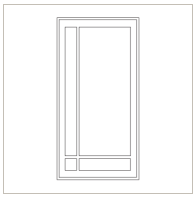

Cottage B

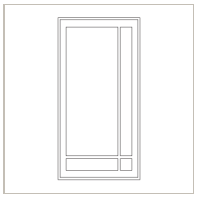

Cottage T

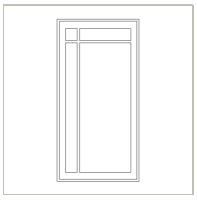

Checkrail

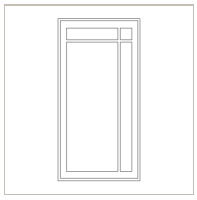

Checkrail T


Oriel


Prairie 4 Bottom-Left


Prairie 4 Bottom-Right


Prairie 4 Top-Left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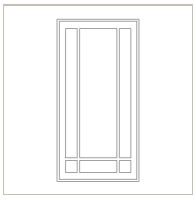
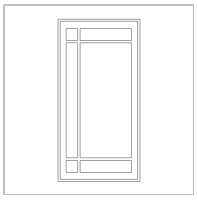

Prairie 6 Bottom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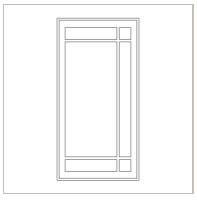
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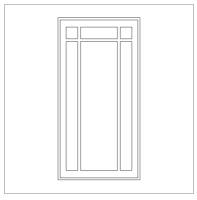
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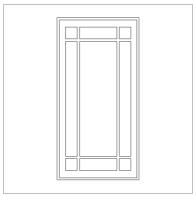
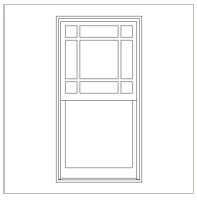
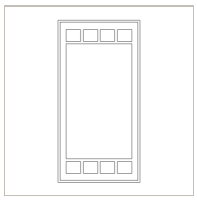
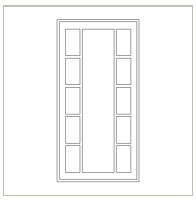
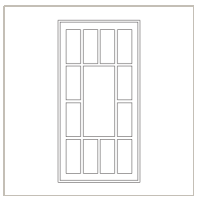

Prairie 9A

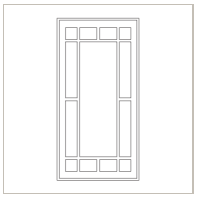

Prairie 9B


Prairie Checkrail


Trellis Horizontal


Trellis Vertical


Victorian


Victorian Prairie

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