

ADDRESS OF PROJECT: 1124 Prince StTAX MAP AND PARCEL: 074.01-09-02ZONING: RMAPPLICATION FOR: *(Please check all that apply)*☐ CERTIFICATE OF APPROPRIATENESS☒ PERMIT TO MOVE, REMOVE, ENCAPSULATE OR DEMOLISH
(Required if more than 25 square feet of a structure is to be demolished/impacted)☐ WAIVER OF VISION CLEARANCE REQUIREMENT and/or YARD REQUIREMENTS IN A VISION
CLEARANCE AREA (Section 7-802, Alexandria 1992 Zoning Ordinance)☐ WAIVER OF ROOFTOP HVAC SCREENING REQUIREMENT
(Section 6-403(B)(3), Alexandria 1992 Zoning Ordinance)Applicant: ☒ Property Owner ☐ Business *(Please provide business name & contact person)*Name: Jeannine A. MantzAddress: 1124 Prince St.City: Alexandria State: VA Zip: 22314Phone: 703-869-0260 E-mail: JMANTZ377@GMAIL.COMAuthorized Agent *(if applicable)*: ☐ Attorney ☐ Architect ☐ _____

Name: _____

Phone: _____

E-mail: _____

Legal Property Owner:

Name: Jeannine A. MantzAddress: 1124 Prince St.City: Alexandria State: VA Zip: 22314Phone: 703-869-0260 E-mail: JMANTZ377@GMAIL.COM

☒ Yes ☒ No Is there an historic preservation easement on this property?
☐ Yes ☒ No If yes, has the easement holder agreed to the proposed alterations?
☐ Yes ☒ No Is there a homeowner's association for this property?
☐ Yes ☐ No If yes, has the homeowner's association approved the proposed alterations?

If you answered yes to any of the above, please attach a copy of the letter approving the project.

Additions & New Construction: Drawings must be to scale and should not exceed 11" x 17" unless approved by staff. All plans must be folded and collated into 5 complete 8 1/2" x 11" sets. Additional copies may be requested by staff for large-scale development projects or projects fronting Washington Street. Check N/A if an item in this section does not apply to your project.

- ☐ ☒ N/A Scaled survey plat showing dimensions of lot and location of existing building and other structures on the lot, location of proposed structure or addition, dimensions of existing structure(s), proposed addition or new construction, and all exterior, ground and roof mounted equipment.
- ☐ ☒ FAR & Open Space calculation form.
- ☐ ☒ Clear and labeled photographs of the site, surrounding properties and existing structures, if applicable.
- ☐ ☒ Existing elevations must be scaled and include dimensions.
- ☐ ☒ Proposed elevations must be scaled and include dimensions. Include the relationship to adjacent structures in plan and elevations.
- ☐ ☒ Materials and colors to be used must be specified and delineated on the drawings. Actual samples may be provided or required.
- ☐ ☒ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☐ ☒ For development site plan projects, a model showing mass relationships to adjacent properties and structures.

Signs & Awnings: One sign per building under one square foot does not require BAR approval unless illuminated. All other signs including window signs require BAR approval. Check N/A if an item in this section does not apply to your project.

- ☐ ☒ N/A Linear feet of building: Front: _____ Secondary front (if corner lot): _____
- ☐ ☒ Square feet of existing signs to remain: _____
- ☐ ☒ Photograph of building showing existing conditions.
- ☐ ☒ Dimensioned drawings of proposed sign identifying materials, color, lettering style and text.
- ☐ ☒ Location of sign (show exact location on building including the height above sidewalk).
- ☐ ☒ Means of attachment (drawing or manufacturer's cut sheet of bracket if applicable).
- ☐ ☒ Description of lighting (if applicable). Include manufacturer's cut sheet for any new lighting fixtures and information detailing how it will be attached to the building's facade.

Alterations: Check N/A if an item in this section does not apply to your project.

- ☒ ☐ N/A Clear and labeled photographs of the site, especially the area being impacted by the alterations, all sides of the building and any pertinent details.
- ☐ ☒ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☒ ☐ Drawings accurately representing the changes to the proposed structure, including materials and overall dimensions. Drawings must be to scale.
- ☐ ☐ An official survey plat showing the proposed locations of HVAC units, fences, and sheds.
- ☐ ☐ Historic elevations or photographs should accompany any request to return a structure to an earlier appearance.

NATURE OF PROPOSED WORK: *Please check all that apply*☐ NEW CONSTRUCTION☒ EXTERIOR ALTERATION: *Please check all that apply.*☐ awning☐ doors☐ lighting☐ other _____☐ fence, gate or garden wall☒ windows☐ pergola/trellis☐ HVAC equipment☒ siding☐ painting unpainted masonry☐ shutters☐ shed☐ ADDITION☐ DEMOLITION/ENCAPSULATION☐ SIGNAGE**DESCRIPTION OF PROPOSED WORK:** *Please describe the proposed work in detail (Additional pages may be attached).*

Install Infinity Insert Double Hung Windows
with 3/4" mounts per the attached specification
on the east (horse alley) and south (rear) elevations.

Replace masonite siding on East and South
elevations with 7-1/4 inch cedar mill (6" exposure)
prefinished James Hardie siding. Replace window
trim on East Side w/ JH trim.

SUBMITTAL REQUIREMENTS:

Items listed below comprise the **minimum supporting materials** for BAR applications. Staff may request additional information during application review. Please refer to the relevant section of the *Design Guidelines* for further information on appropriate treatments.

Applicants must use the checklist below to ensure the application is complete. Include all information and material that are necessary to thoroughly describe the project. Incomplete applications will delay the docketing of the application for review. Pre-application meetings are required for all proposed additions. All applicants are encouraged to meet with staff prior to submission of a completed application.

Electronic copies of submission materials should be submitted whenever possible.

Demolition/Encapsulation : *All applicants requesting 25 square feet or more of demolition/encapsulation must complete this section. Check N/A if an item in this section does not apply to your project.*

- N/A
- ☐ ☒ Survey plat showing the extent of the proposed demolition/encapsulation.
 - ☐ ☒ Existing elevation drawings clearly showing all elements proposed for demolition/encapsulation.
 - ☐ ☒ Clear and labeled photographs of all elevations of the building if the entire structure is proposed to be demolished.
 - ☐ ☒ Description of the reason for demolition/encapsulation.
 - ☐ ☒ Description of the alternatives to demolition/encapsulation and why such alternatives are not considered feasible.

ALL APPLICATIONS: Please read and check that you have read and understand the following items:

- ☒ I have submitted a filing fee with this application. (Checks should be made payable to the City of Alexandria. Please contact staff for assistance in determining the appropriate fee.)
- ☒ I understand the notice requirements and will return a copy of the three respective notice forms to BAR staff at least five days prior to the hearing. If I am unsure to whom I should send notice I will contact Planning and Zoning staff for assistance in identifying adjacent parcels.
- ☒ I, the applicant, or an authorized representative will be present at the public hearing.
- ☒ I understand that any revisions to this initial application submission (including applications deferred for restudy) must be accompanied by the BAR Supplemental form and 5 sets of revised materials.

The undersigned hereby attests that all of the information herein provided including the site plan, building elevations, prospective drawings of the project, and written descriptive information are true, correct and accurate. The undersigned further understands that, should such information be found incorrect, any action taken by the Board based on such information may be invalidated. The undersigned also hereby grants the City of Alexandria permission to post placard notice as required by Article XI, Division A, Section 11-301(B) of the 1992 Alexandria City Zoning Ordinance, on the property which is the subject of this application. The undersigned also hereby authorizes the City staff and members of the BAR to inspect this site as necessary in the course of research and evaluating the application. The applicant, if other than the property owner, also attests that he/she has obtained permission from the property owner to make this application.

APPLICANT OR AUTHORIZED AGENT:

Signature: Jeannine A. Mantz

Printed Name: Jeannine A. Mantz

Date: 07/01/2015

OWNERSHIP AND DISCLOSURE STATEMENT

Use additional sheets if necessary

1. Applicant. State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than ten percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

	Name	Address	Percent of Ownership
1.	Jeannine Mantz	1124 Prince St.	100%
2.			
3.			

2. Property. State the name, address and percent of ownership of any person or entity owning an interest in the property located at _____ (address), unless the entity is a corporation or partnership, in which case identify each owner of more than ten percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

	Name	Address	Percent of Ownership
1.	Jeannine Mantz	1124 Prince St	100%
2.			
3.			

3. Business or Financial Relationships. Each person or entity indicated above in sections 1 and 2, with an ownership interest in the applicant or in the subject property are require to disclose any business or financial relationship, as defined by [Section 11-350 of the Zoning Ordinance](#), existing at the time of this application, or within the 12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of Zoning Appeals or either Boards of Architectural Review. **All fields must be filled out completely. Do not leave blank. (If there are no relationships please indicated each person or entity and "None" in the corresponding fields).**

For a list of current council, commission and board members, as well as the definition of business and financial relationship, [click here](#).

	Name of person or entity	Relationship as defined by Section 11-350 of the Zoning Ordinance	Member of the Approving Body (i.e. City Council, Planning Commission, etc.)
1.			
2.			
3.			

NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.

As the applicant or the applicant's authorized agent, I hereby attest to the best of my ability that the information provided above is true and correct.

Date Printed Name Signature

Infinity Insert Double Hung

Unit Features.....	1
Lite Options	3
Minimum and Maximum Guidelines	4
Certified Sizes and Ratings	5
30° Bay Minimum and Maximum Guidelines and Projection.....	6
45° Bay Minimum and Maximum Guidelines and Projection.....	8
STC/OITC Glass Values	9
Mulling Guidelines	10
Measurement Conversions: Operable Units	11
Measurement Conversions: Transom and Picture	12
Measurement Conversions: Egress	13
Section Details: Operator	14
Section Details: Fixed Upper Sash.....	15
Section Details: Transom/Picture	16
Section Details: Frame Expander and Panning Application.....	17
Section Details: Mullions	18
Section Details: 30° and 45° Bay Unit/Projection.....	19
Section Details: Vertical Bay	20

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Infinity Insert Double Hung

Unit Features

Infinity Insert Double Hung: NINDH

Infinity Insert Double Hung Transom: NINDT

Infinity Insert Double Hung Picture: NINDP

Ultrex® Pultruded Fiberglass Frame:

- Frame thickness: 7/8" (22) head jamb, 7/8" (22) side jamb, 25/32" (20) sill with 8 degree bevel
- Frame depth: 3 1/4" (83)
- Exterior colors: Stone White, Sierra, Cashmere, Pebble Gray, Bahama Brown, Bronze
- Interior colors: Stone White, Sierra, EverWood™

Ultrex® Pultruded Fiberglass Sash:

- Sash thickness: 1 3/8" (35)
- Different sash option allows unequal sash heights, unique lite cuts for each sash or different glazing in each sash
- Operable sash tilt to interior for cleaning and removal
- Sash are replaceable but cannot be re-glazed
- Exterior colors: Stone White, Sierra, Cashmere, Pebble Gray, Bahama Brown, Bronze
- Interior colors: Stone White, Sierra, EverWood™

Hardware:

- Lock and keeper:
 - Mounted at the center of the top check rail or 12" (305) on center from either end on dual lock unit
 - Zinc die-cast
- Sash lift:
 - Factory drilled for a bottom sash lift
 - Single lock units receive single lift, dual locks unit receive double lifts
 - Zinc die-cast
- Balance system:
 - Coil spring block and tackle with nylon cord and fiber filled nylon clutch
 - Allows the sash to raise or lower from desired position
- Bottom sash tilt latches:
 - Spring loaded tilt latches attached to upper corners of sash and operated with a button on the lock for easy tilting and sash removal
 - Tilt latches are mounted to the window stile and hidden under the check rail cover for a clean look
- Top sash tilt latches:
 - Spring loaded tilt latches attached to upper corners of sash
 - Injection molded nylon - white or beige
 - Hidden from view in the frame header when window is closed
- Top sash hanger (fixed upper sash only):
 - Attached to the frame securing the top sash making it stationary
 - Metal stamped
 - Color: white or beige
- Optional factory applied Window Opening Control Device
 - Available on all operable units
 - Color: white or beige
 - This device works in accordance to ASMT F2090-10 standard specification for window fall prevention devices with emergency escape

Weather Strip:

- Frame:
 - Jamb: foam filled bulb with flexible TPE skin
 - Color: white or beige
 - Parting stop: PVC with flexible hinged wand seal
 - Color: white or beige
- Sash:
 - Bottom sash: beige, hollow foam bulb type
 - Check rail: beige, PVC with flexible hinged wand seal
- Stationary units:
 - Continuous, foam weather strip at perimeter of sash
 - Color: gray

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Infinity Insert Double Hung

Unit Features

Insect Screens:

- Full screen
- Optional half screen
- Extruded aluminum frame: 0.050" wall thickness
- Standard screen mesh material: charcoal fiberglass
 - Optional screen mesh material: high transparency screen
- Corners are mitered and joined with an internal corner key, which are not visible
- Friction fit pins are integrated into the side of the screen
- Frame color: matches exterior frame color

Glass:

- Glazing seal: silicone bedding on interior and exterior
- Standard glass: Low E2 with Argon or air
- Optional glazing available: Low E1 with Argon or air, Low E3 with Argon or air, Low E3/ERS with Argon or air, clear, tints, tempered, obscure
- Decorative glass options include Glue Chip, Rain, Reed, Narrow Reed, or Frost
- Decorative glass is not available with Low E1, Low E3/ERS or STC/OITC
- Rain, Reed and Narrow Reed not available with SDL
- SDL available on Frost, annealed or tempered
- SDL available on Glue Chip, tempered glass required
- Insulating glass will be altitude adjusted with capillary tubes for higher elevations
- Argon gas is not available for elevations that require capillary tubes

Simulated Divided Lites (SDL):

- 7/8" (22) or 1 1/8" (29) SDL bar (interior and exterior)
- 2 11/32" (30) simulated rail (interior and exterior) - picture unit only
- Exterior color: matched to unit exterior
- Interior color: matched to interior - ABS material
- Pattern: equal rectangular, cottage, prairie, check rail

Gilles-Between-the-Glass (GBG):

- 11/16" (18) or 1" (25) contoured aluminum bar
- Exterior: color matched to unit exterior
- The exterior GBG color is designed to best match the unit exterior color when used with Low E glass. The use of different types of glazing options may alter the exterior GBG color appearance.
- Interior color: White, Satin Taupe, Sierra, Bronze
- Pattern: equal rectangular, cottage, prairie, check rail
- GBG's are not available with dual 4.7mm glass panes. Refer to OMS for availability.

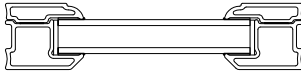
NOTE: GBG may not be available or may require tempered glass if the glass size is greater than 16 square feet or if the short side dimension is greater than 48". Please contact your local Infinity Retailer or Infinity Support at 800-372-1072 to determine if GBG is available for glass sizes exceeding these dimensions.

Head/Seat Board:

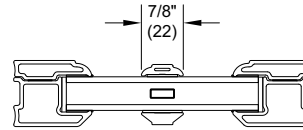
- Use with bow and bay assemblies
- Factory installed interior head board available in bare pine or oak
- Factory installed interior seat board available in bare pine or oak
- Factory installed insulated seat board with white or beige exterior aluminum skin
- Bay cable support
- Bow and bay jamb available from 4 9/16" (116) - 8 9/16" (217)

APPLICATION MATERIALS
 BAR2015-00207
 1124 PRINCE ST
 7/1/2015

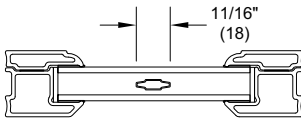
Lite Options



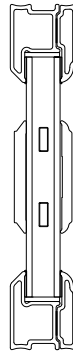
Insulating Glass



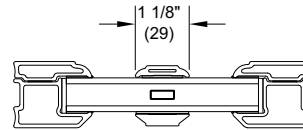
Insulating Glass
7/8" SDL w/ spacer bar



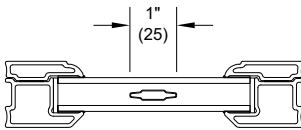
11/16" Insulating Glass
GBG



Insulating Glass
SDL Simulated Rail
w/spacer bar



Insulating Glass
1 1/8" SDL w/ spacer bar



1" Insulating Glass
GBG

Minimum and Maximum Guidelines

Minimum and Maximum Inside Opening Guidelines - Standard Size												
Insert Standard Size Double Hung		Inside Opening								Max Glass Size		
		Min Width		Min Height		Max Width		Max Height		Sash Size	Sq. Feet	Sq. Meters
		in	mm	in	mm	in	mm	in	mm			
NINDH	Equal Sash	14 1/2	(368)	25 3/4	(654)	48 3/8	(1229)	95 3/4	(2432)	regular	13 25/32	1.281
NINDH	Cottage Style	14 1/2	(368)	29 13/16	(757)	48 3/8	(1229)	71 3/4	(1822)	small	8 3/32	0.752
										large	13 1/2	1.255
NINDH	Oriel Style	14 1/2	(368)	29 13/16	(757)	48 3/8	(1229)	95 3/4	(2432)	small	11 1/32	1.025
										large	18 3/8	1.708
NINDP NINDT	Picture Transom	18 3/8	(467)	16 1/8	(410)	72 3/8	(1838)	71 3/4	(1822)	regular	30	2.787

Minimum and Maximum Inside Opening Guidelines - Expanded Size												
Insert Expanded Size Double Hung		Inside Opening								Max Glass Size		
		Min Width		Min Height		Max Width		Max Height		Sash Size	Sq. Feet	Sq. Meters
		in	mm	in	mm	in	mm	in	mm			
NINDH	Equal Sash	48 13/32	(1230)	25 3/4	(654)	54 3/8	(1381)	84 3/4	(2153)	regular	13 25/32	1.279
NINDH	Cottage Style	48 13/32	(1230)	29 13/16	(757)	54 3/8	(1381)	59 3/4	(1518)	small	7 9/16	0.701
										large	12 19/32	1.169
NINDH	Oriel Style	48 13/32	(1230)	29 13/16	(757)	54 3/8	(1381)	84 3/4	(2153)	small	11	1.023
										large	18 3/8	1.706

NOTE: Fixed upper sash required on certain sizes. Contact Infinity Support for more information.

For Glue Chip, Frost, and Rain, maximum short frame side is 63 1/8".

For Reed and Narrow Reed, vertical pattern orientation maximum frame width size 63 1/8".

For Reed and Narrow Reed, horizontal pattern orientation maximum sash height 61 1/8" for operating unit, 63 1/8" for transom and picture units.

Tempered glass may be required if the glass size is greater than 23 square feet. Please contact your local Infinity Retailer or Infinity Support at 800-372-1072 to determine available glass options on units exceeding this size.

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Certified Sizes and Ratings

Product	Air Tested to psf	Water Tested to psf	Design Pressure (DP)	Certification Rating	Max Overall Width		Max Overall Height	
					in	mm	in	mm
Fiberglass Insert Double Hung (NINDH)	1.57	4.6	30	LC-PG30-H	48	(1219)	96	(2438)
Fiberglass Insert Double Hung (NINDH)	1.57	3.76	25	LC-PG25-D	54	(1372)	85	(2159)
Fiberglass Insert Double Hung Picture (NINDP)	1.57	4.5	30	LC-PG30-FW	72	(1829)	72	(1829)

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

30° Bay Minimum and Maximum Guidelines and Projection

Minimum and Maximum Guidelines									
30 Degree Bay		Frame Size							
		Min Width		Min Height		Max Width		Height	
		in	mm	in	mm	in	mm	in	mm
1:2:1 Ratio	O-P-O	59 1/2	(1511)	27 7/16	(697)	141 1/16	(3583)	73 15/16	(1878)
	O-O-O	59 1/2	(1511)	27 7/16	(697)	96 5/16	(2446)	86 15/16	(2208)
1:1:1 Ratio	O-P-O	45 3/8	(1153)	27 7/16	(697)	136	(3454)	73 15/16	(1878)
	O-O-O	45 3/8	(1153)	27 7/16	(697)	136	(3454)	86 15/16	(2208)

30 Degree Bay - 1:1:1 Ratio							
RO Width		Flanker Inside Opening		Center Inside Opening		Projection	
in	mm	in	mm	in	mm	in	mm
50	(1270)	16 3/16	(411)	16 3/16	(411)	8 3/4	(222)
55	(1397)	18	(457)	18	(457)	9 5/8	(244)
60	(1524)	19 13/16	(503)	19 13/16	(503)	10 9/16	(268)
65	(1651)	21 11/16	(551)	21 11/16	(551)	11 1/2	(292)
70	(1778)	23 1/2	(597)	23 1/2	(597)	12 3/8	(314)
75	(1905)	25 5/16	(643)	25 5/16	(643)	13 5/16	(338)
80	(2032)	27 3/16	(691)	27 3/16	(691)	14 3/16	(360)
85	(2159)	29	(737)	29	(737)	15 1/8	(384)
90	(2286)	30 13/16	(783)	30 13/16	(783)	16 1/16	(408)
95	(2413)	32 5/8	(829)	32 5/8	(829)	16 15/16	(430)
100	(2540)	34 1/2	(876)	34 1/2	(876)	17 7/8	(454)
105	(2667)	36 5/16	(922)	36 5/16	(922)	18 13/16	(478)
110	(2794)	38 1/8	(968)	38 1/8	(968)	19 11/16	(500)
115	(2921)	40	(1016)	40	(1016)	20 5/8	(524)
120	(3048)	41 13/16	(1062)	41 13/16	(1062)	21 9/16	(548)
125	(3175)	43 5/8	(1108)	43 5/8	(1108)	22 7/16	(570)
130	(3302)	47 7/16	(1205)	45 7/16	(1154)	23 3/8	(594)
135	(3429)	47 5/16	(1202)	47 5/16	(1202)	24 5/16	(618)

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

30° Bay Minimum and Maximum Guidelines and Projection

30 Degree Bay - 1:2:1 Ratio							
RO Width		Flanker Inside Opening		Center Inside Opening		Projection	
in	mm	in	mm	in	mm	in	mm
60	(1524)	14 5/8	(371)	28 7/8	(733)	7 15/16	(202)
65	(1651)	15 15/16	(405)	31 9/16	(802)	8 5/8	(219)
70	(1778)	17 5/16	(440)	34 1/4	(870)	9 5/16	(237)
75	(1905)	18 5/8	(473)	36 15/16	(938)	9 5/16	(237)
80	(2032)	20	(508)	39 5/8	(1006)	10 5/8	(270)
85	(2159)	21 5/16	(541)	42 1/4	(1073)	11 5/16	(287)
90	(2286)	22 5/8	(575)	44 15/16	(1141)	11 15/16	(303)
95	(2413)	24	(610)	47 5/8	(1210)	12 5/8	(321)
100	(2540)	25 5/16	(643)	50 5/16	(1278)	13 5/16	(338)
105	(2667)	26 11/16	(678)	53	(1346)	14	(356)
110	(2794)	28	(711)	55 11/16	(1414)	14 5/8	(371)
115	(2921)	29 3/8	(746)	58 3/8	(1483)	15 5/16	(389)
120	(3048)	30 11/16	(779)	61 1/16	(1551)	16	(406)
125	(3175)	32 1/16	(814)	63 11/16	(1618)	16 5/8	(422)
130	(3302)	33 3/8	(848)	66 3/8	(1686)	17 5/16	(440)
135	(3429)	34 11/16	(881)	69 1/16	(1754)	18	(457)
140	(3556)	36 1/16	(916)	71 3/4	(1822)	18 11/16	(475)

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

45° Bay Minimum and Maximum Guidelines and Projection

Minimum and Maximum Guidelines									
45 Degree Bay		Frame Size							
		Min Width		Min Height		Max Width		Max Height	
		in	mm	in	mm	in	mm	in	mm
1:2:1 Ratio	O-P-O	56 5/16	(1430)	27 7/16	(697)	119 1/8	(3026)	73 15/16	(1878)
	O-O-O	56 5/16	(1430)	27 7/16	(697)	90	(2286)	86 15/16	(2208)
1:1:1 Ratio	O-P-O	42 3/16	(1072)	27 7/16	(697)	86 9/16	(2199)	73 15/16	(1878)
	O-O-O	42 3/16	(1072)	27 7/16	(697)	86 9/16	(2199)	86 15/16	(2208)

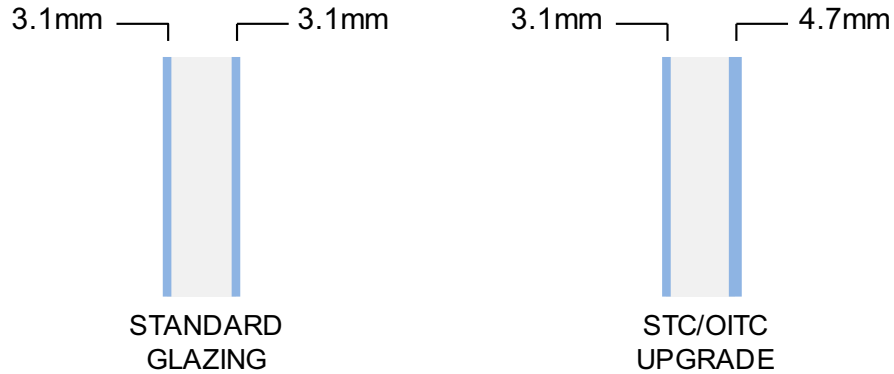
45 Degree Bay - 1:1:1 Ratio							
RO Width		Flanker Inside Opening		Center Inside Opening		Projection	
in	mm	in	mm	in	mm	in	mm
50	(1270)	17 3/4	(451)	17 3/4	(451)	13 3/4	(349)
55	(1397)	19 13/16	(503)	19 13/16	(503)	15 3/16	(386)
60	(1524)	21 7/8	(556)	21 7/8	(556)	16 11/16	(424)
65	(1651)	23 15/16	(608)	23 15/16	(608)	18 1/8	(460)
70	(1778)	26	(660)	26	(660)	19 5/8	(498)
75	(1905)	28 1/16	(713)	28 1/16	(713)	21 1/16	(535)
80	(2032)	30 1/8	(765)	30 1/8	(765)	22 9/16	(573)
85	(2159)	32 3/16	(818)	32 3/16	(818)	24	(610)

45 Degree Bay - 1:2:1 Ratio							
RO Width		Flanker Inside Opening		Center Inside Opening		Projection	
in	mm	in	mm	in	mm	in	mm
60	(1524)	15 9/16	(395)	30 3/4	(781)	12 1/4	(311)
65	(1651)	17	(432)	33 11/16	(856)	13 1/4	(337)
70	(1778)	18 1/2	(470)	36 5/8	(930)	14 5/16	(364)
75	(1905)	19 15/16	(506)	39 9/16	(1005)	15 5/16	(389)
80	(2032)	21 7/16	(545)	42 1/2	(1080)	16 3/8	(416)
85	(2159)	22 7/8	(581)	45 7/16	(1154)	17 3/8	(441)
90	(2286)	24 3/8	(619)	48 3/8	(1229)	18 7/16	(468)
95	(2413)	25 13/16	(656)	51 1/4	(1302)	19 1/2	(495)
100	(2540)	27 1/4	(692)	54 3/16	(1376)	20 1/2	(521)
105	(2667)	28 3/4	(730)	57 1/8	(1451)	21 9/16	(548)
110	(2794)	30 3/16	(767)	60 1/16	(1526)	22 9/16	(573)
115	(2921)	31 11/16	(805)	63	(1600)	23 5/8	(600)

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

STC/OITC Glass Values

This glazing option incorporates 3.1mm/4.7mm variable thickness glass to increase STC/OITC performance and improve sound abatement. Infinity's STC/OITC upgrade includes third party ASTM ratings and reports. STC/OITC ratings for this option and for standard 3.1mm/3.1mm insulating glass are shown in the attached chart.



Product Type	Exterior Glazing	Airspace	Interior Glazing	STC	OITC
Insert Double Hung	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	27	23
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	31	27
Insert Double Hung Picture	1/8" (3.1)	15/32" (11.5)	1/8" (3.1)	27	24
	1/8" (3.1)	13/32" (9.8)	3/16" (4.7)	32	28

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

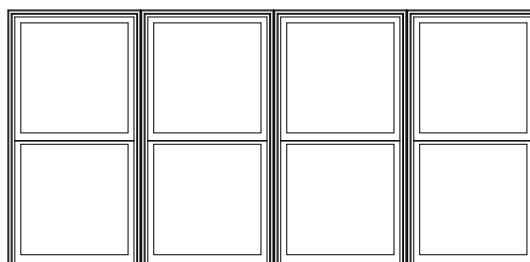
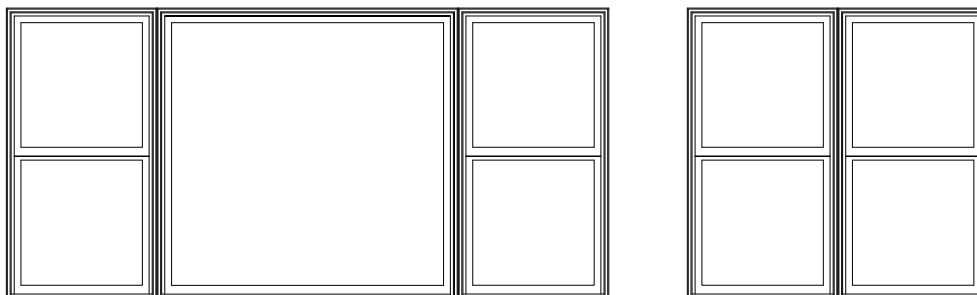
Infinity Insert Double Hung

Mulling Guidelines

Factory Muller Insert Double Hung Assemblies

- Assemblies up to 4 units wide by 1 unit high
 - MAXIMUM INSIDE OPENING not to exceed 112 3/8" (2854) x 85 1/4" (2165)

NOTE: Field mulling beyond the above limitations is not recommended.



Inside Opening Assemblies

- WIDTH:
 - Frame Width = Unit Inside Opening Width MINUS 3/8"
 - Total Inside Opening Width = ADD all frame widths PLUS 3/8" (3/8" x number of mulls)
- HEIGHT: Not applicable

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Measurement Conversions: Operable Units

Insert Double Hung Operating Unit - 8 Degree Sill						
Unit Measurements		Width		Height		
From	To					
Inside Opening		in	mm		in	mm
OM of Frame @ Exterior	Inside Opening	+ 3/8	(10)		-1/4	(6)
Frame		in	mm		in	mm
Daylight Opening	OM of Frame @ Exterior	+ 5 3/16	(132)	× 2	+ 7 5/8	(194)
Top Sash		in	mm		in	mm
OM of Frame @ Exterior	OM of Top Sash	-1 15/16	(49)	÷ 2	-9/16	(14)
Daylight Opening	OM of Top Sash	+ 3 1/4	(83)		+ 3 1/4	(83)
Bottom Sash		in	mm		in	mm
OM of Frame @ Exterior	OM of Bottom Sash	-1 15/16	(49)	÷ 2	-1/8	(4)
Daylight Opening	OM of Bottom Sash	+ 3 1/4	(83)		+ 3 1/4	(83)
Top Sash (Cottage Sash)		in	mm		in	mm
OM of Frame @ Exterior	OM of Top Sash	-1 15/16	(49)	× 0.4	+	(0)
Daylight Opening	OM of Top Sash	+ 3 1/4	(83)		+ 3 1/4	(83)
Bottom Sash (Cottage Sash)		in	mm		in	mm
OM of Frame @ Exterior	OM of Bottom Sash	-1 15/16	(49)	× 0.6	-11/16	(17)
Daylight Opening	OM of Bottom Sash	+ 3 1/4	(83)		+ 3 1/4	(83)
Top Sash (Oriel Sash)		in	mm		in	mm
OM of Frame @ Exterior	OM of Top Sash	-1 15/16	(49)	× 0.6	-1 3/32	(28)
Daylight Opening	OM of Top Sash	+ 3 1/4	(83)		+ 3 1/4	(83)
Bottom Sash (Oriel Sash)		in	mm		in	mm
OM of Frame @ Exterior	OM of Bottom Sash	-1 15/16	(49)	× 0.4	+ 13/32	(10)
Daylight Opening	OM of Bottom Sash	+ 3 1/4	(83)		+ 3 1/4	(83)
Glass		in	mm		in	mm
Daylight Opening	Glass	+ 1 1/16	(27)		+ 1 1/16	(27)
Full Screen		in	mm		in	mm
OM of Frame @ Exterior	OM of Screen	-2 7/32	(56)		-1 11/16	(43)
Daylight Opening	OM of Screen	+ 2 31/32	(76)	× 2	+ 5 15/16	(151)
Half Screen		in	mm		in	mm
OM of Frame @ Exterior	OM of Screen	-2 7/32	(56)	÷ 2	+ 1/16	(1)
Daylight Opening	OM of Screen	+ 2 31/32	(76)		+ 3 27/32	(98)
Cottage Screen		in	mm		in	mm
OM of Frame @ Exterior	OM of Screen	-2 7/32	(56)		-1 11/16	(43)
Daylight Opening (S1)	OM of Screen	+ 2 31/32	(76)	÷ 0.4	+ 6 13/32	(163)
Oriel Screen		in	mm		in	mm
OM of Frame @ Exterior	OM of Screen	-2 7/32	(56)		-1 11/16	(43)
Daylight Opening (S1)	OM of Screen	+ 2 31/32	(76)	÷ 0.6	+ 5 17/32	(140)

NOTE: IO to Frame Size Height Conversion is on next page

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Measurement Conversions: Transom and Picture

Insert Double Hung Transoms - 8 Degree Sill					
Unit Measurements		Width		Height	
From	To				
Inside Opening		in	mm	in	mm
OM of Frame @ Exterior	Inside Opening	+ 3/8	(10)	-1/4	(6)
Frame		in	mm	in	mm
Daylight Opening	OM of Frame @ Exterior	+ 5 3/16	(132)	+ 5 1/4	(133)
Sash		in	mm	in	mm
OM of Frame @ Exterior	OM of Sash	-1 15/16	(49)	-2	(51)
Daylight Opening	OM of Sash	+ 3 1/4	(83)	+ 3 1/4	(83)
Glass		in	mm	in	mm
Daylight Opening	Glass	+ 1 1/16	(27)	+ 1 1/16	(27)

Insert Double Hung Picture - 8 Degree Sill					
Unit Measurements		Width		Height	
From	To				
Inside Opening		in	mm	in	mm
OM of Frame @ Exterior	Inside Opening	+ 3/8	(10)	-1/4	(6)
Frame		in	mm	in	mm
Daylight Opening	OM of Frame @ Exterior	+ 5 3/16	(132)	+ 5 1/4	(133)
Sash		in	mm	in	mm
OM of Frame @ Exterior	OM of Sash	-1 15/16	(49)	-2	(51)
Daylight Opening	OM of Sash	+ 3 1/4	(83)	+ 3 1/4	(83)
Glass		in	mm	in	mm
Daylight Opening	Glass	+ 1 1/16	(27)	+ 1 1/16	(27)

Infinity Double Hung Measurement Conversions		
Inside Opening to Frame Size @ Exterior		
Existing Sill Angle	Conversions	
8° and greater	1/4	(6)
7°	3/16	(5)
6°	1/8	(3)
5°	1/16	(2)
4°	0	(0)
3°	- 1/16	(2)
2°	- 1/8	(3)
1°	- 3/16	(5)
0°	- 1/4	(6)

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Measurement Conversions: Egress

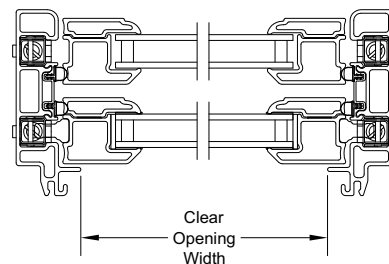
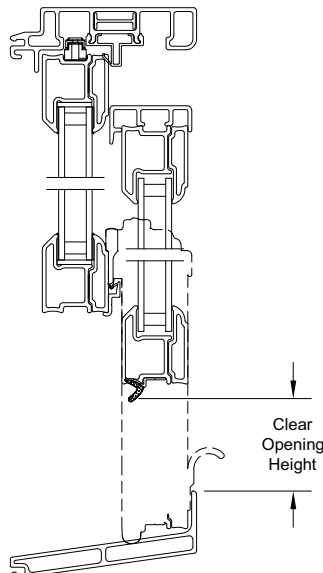
Egress Conversions		
Equal Sash Egress Minimum Opening and Conversions from Frame Size		
Minimum Value for Net Clear Opening	Desired Dimension	Formula
20 in	Egress opening width, in	= NINDH frame OM width - 2.694
24 in	Egress opening height, in	= (NINDH frame OM height / 2) - 5.722
5.7 ft ²	Egress opening area, ft ²	= ((Egress opening width, in) x (Egress opening height, in)) / 144

Egress Conversions		
Cottage Style Egress Minimum Opening and Conversions from Frame Size		
Minimum Value for Net Clear Opening	Desired Dimension	Formula
20 in	Egress opening width, in	= NINDH frame OM width - 2.694
24 in	Egress opening height, in	= (NINDH frame OM height x SR) - 5.172
5.7 ft ²	Egress opening area, ft ²	= ((Egress opening width, in) x (Egress opening height, in)) / 144

Egress Conversions		
Oriel Style Egress Minimum Opening and Conversions from Frame Size		
Minimum Value for Net Clear Opening	Desired Dimension	Formula
20 in	Egress opening width, in	= NINDH frame OM width - 2.694
24 in	Egress opening height, in	= (NINDH frame OM height x SR) - 5.406
5.7 ft ²	Egress opening area, ft ²	= ((Egress opening width, in) x (Egress opening height, in)) / 144

NOTE: SR is the sash ratio of the smallest sash to the glass height (2/5 or 1/3)

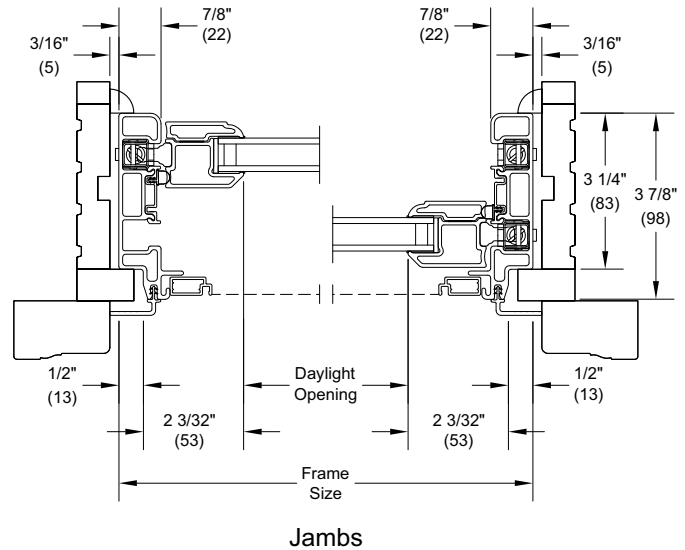
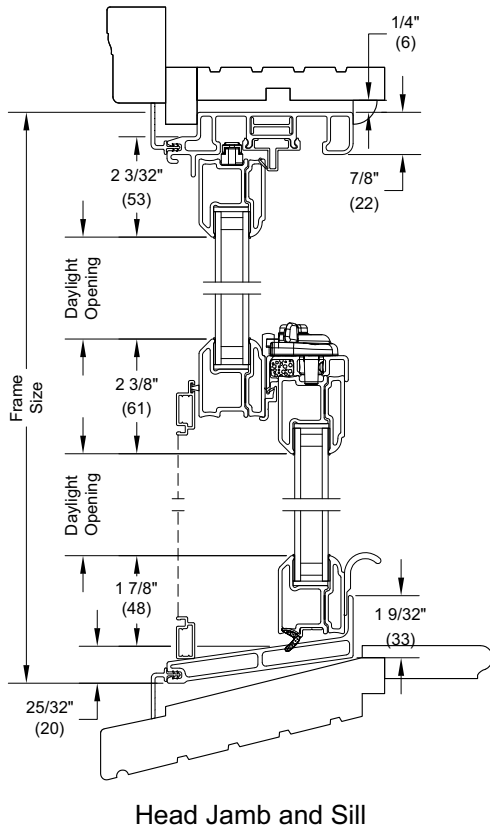
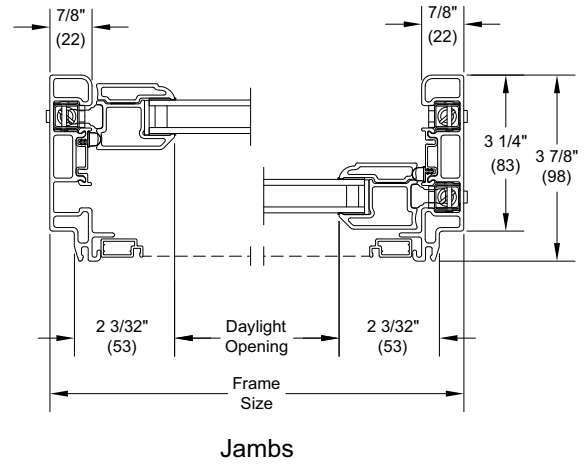
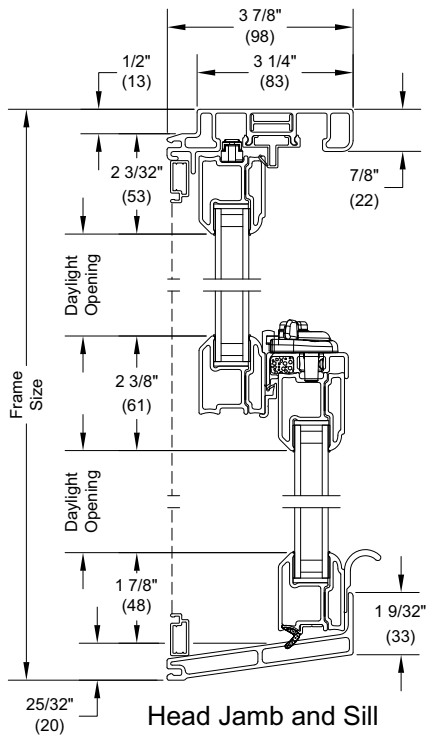
Must meet/exceed all three minimum values to meet egress. Limited travel may affect egress opening height.



APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Section Details: Operator

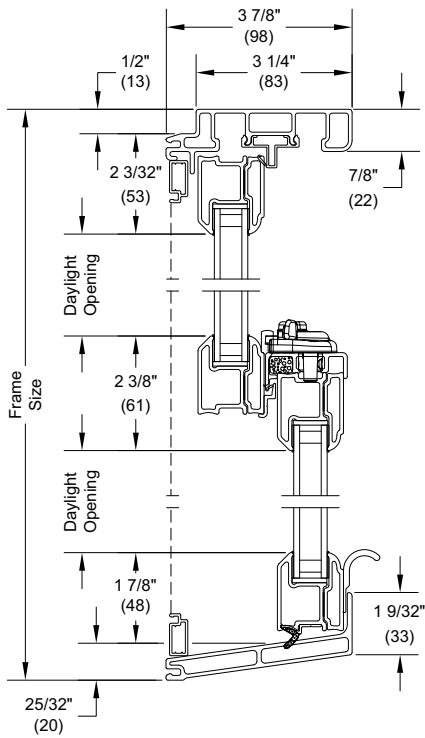
Scale: 3" = 1' 0"



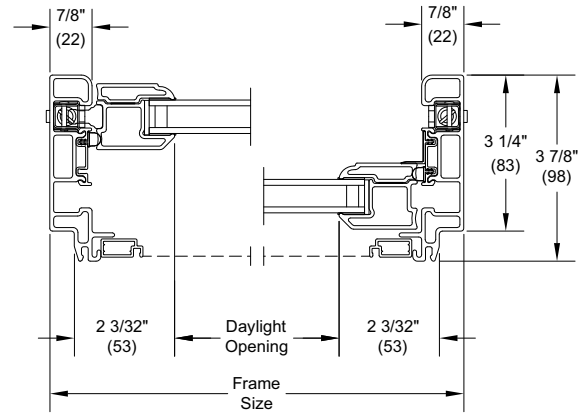
APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Section Details: Fixed Upper Sash

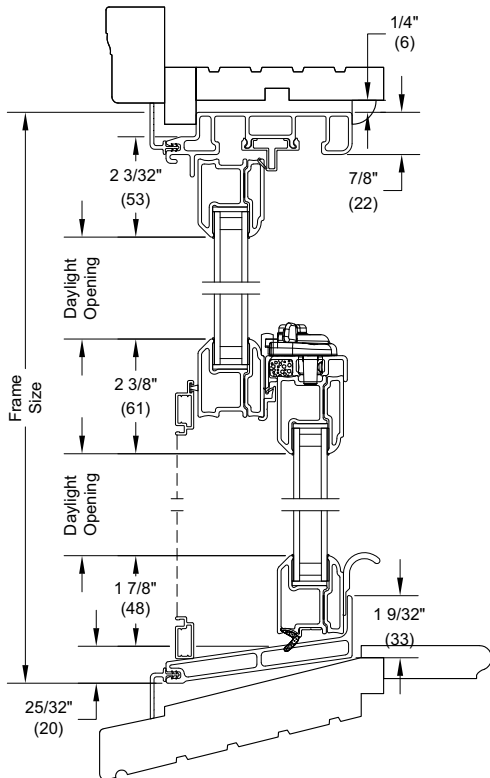
Scale: 3" = 1' 0"



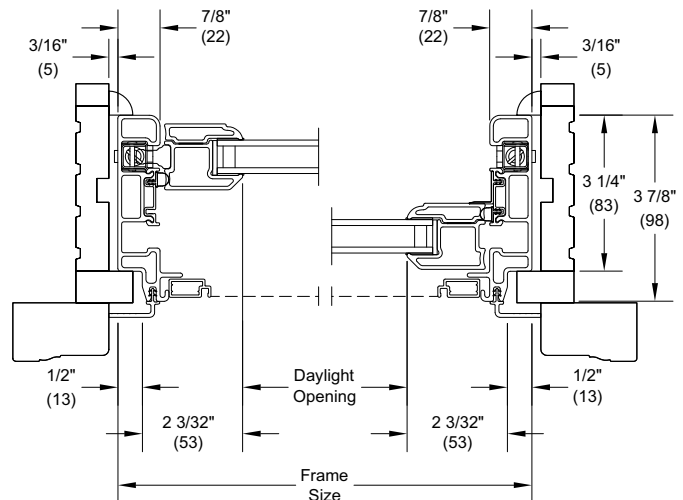
Head Jamb and Sill



Jamb



Head Jamb and Sill

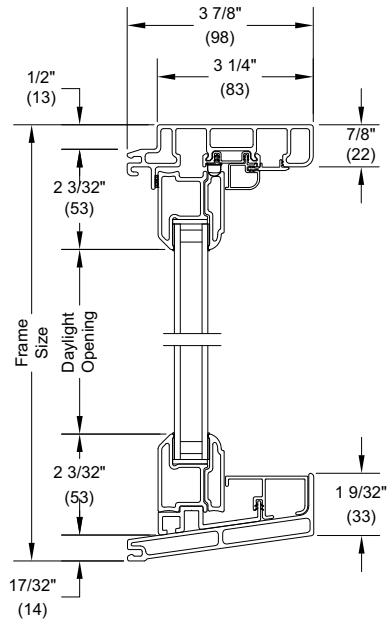


Jamb

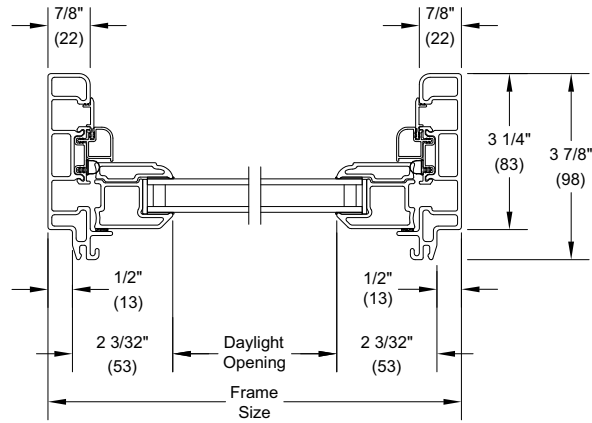
APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Section Details: Transom/Picture

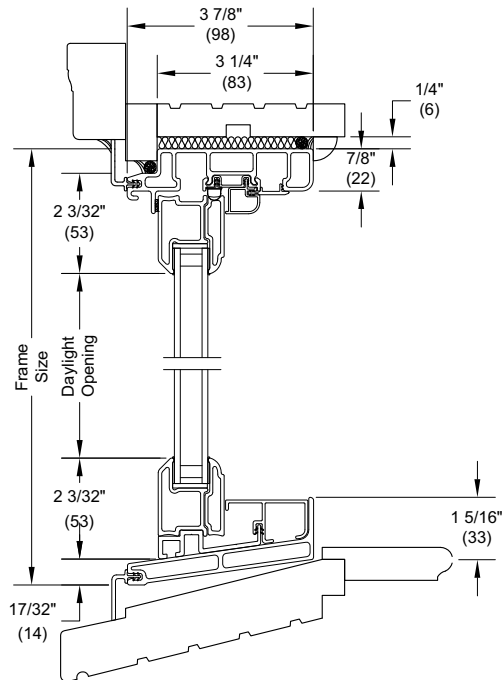
Scale: 3" = 1' 0"



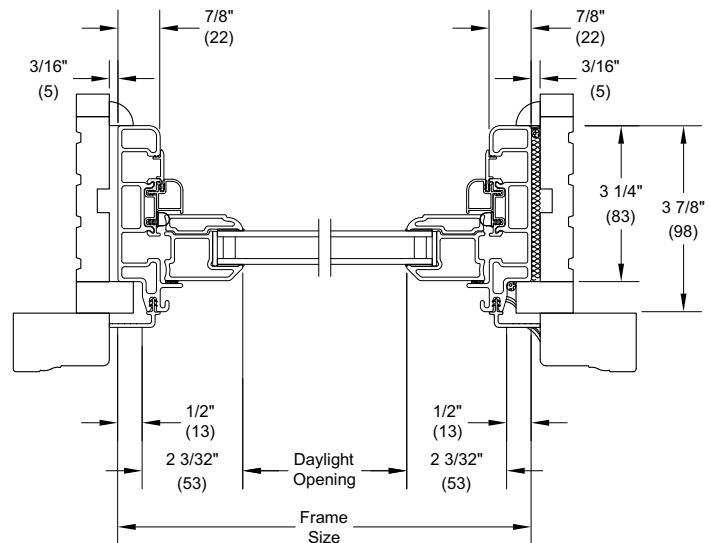
Head Jamb and Sill



Jamb

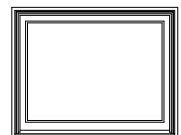


Head Jamb and Sill



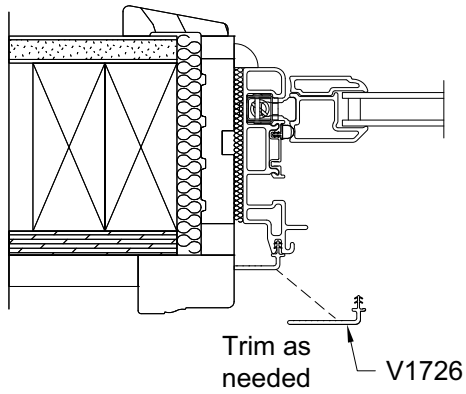
Jamb

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

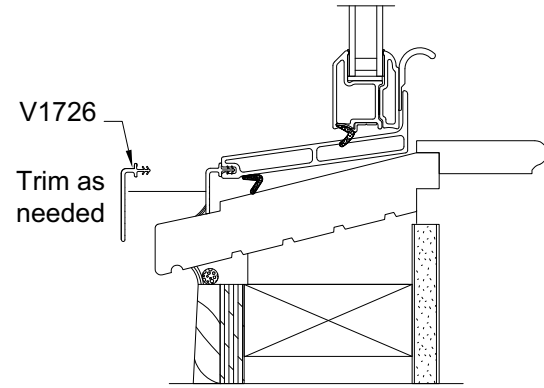


Section Details: Frame Expander and Panning Application

Scale: 3" = 1' 0"



Jamb Frame Expander

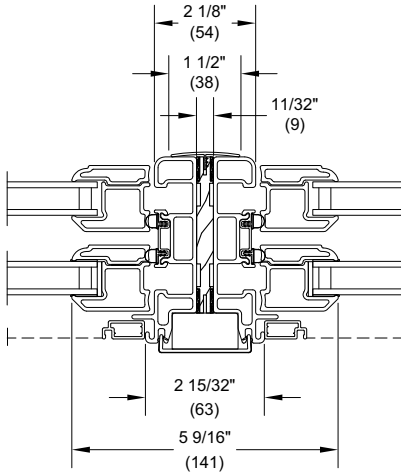


Sill Frame Expander

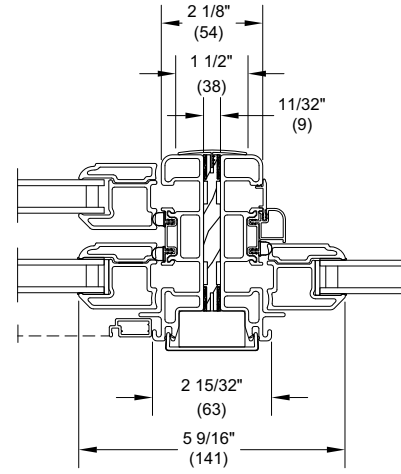
APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Section Details: Mullions

Scale: 3" = 1' 0"



Vertical Mullion Operator/Operator

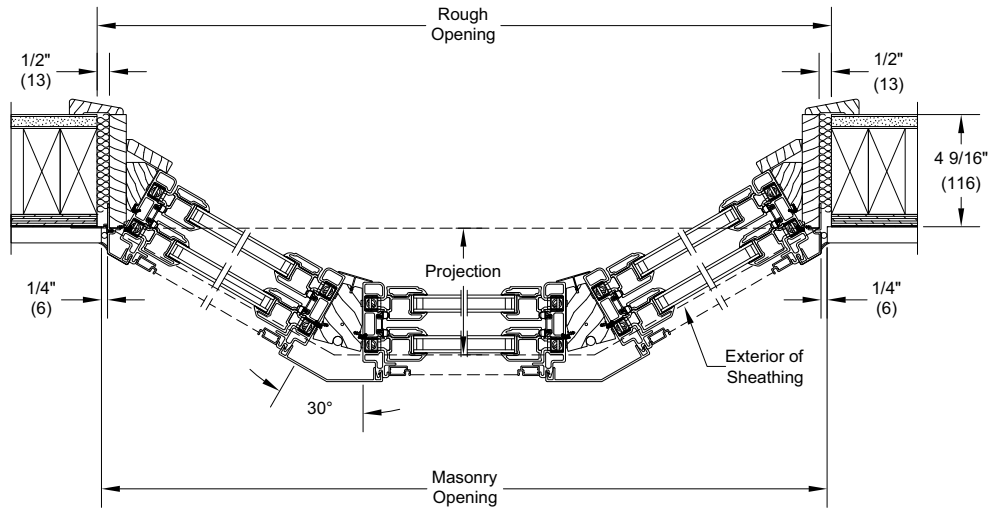


Vertical Mullion Operator/Picture

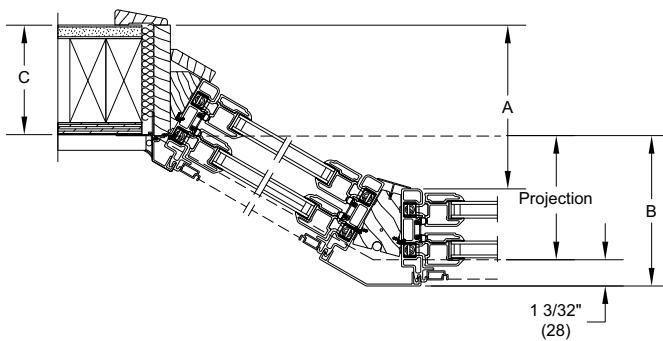
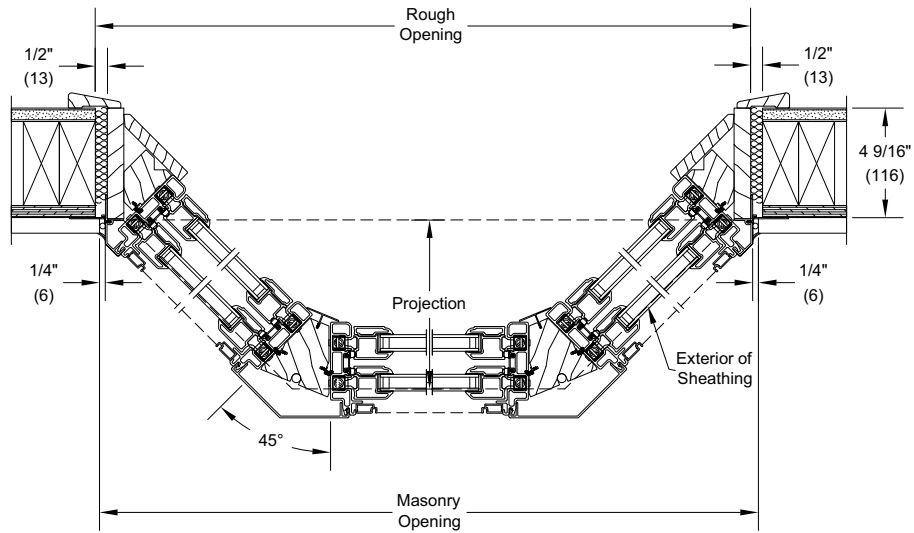
Section Details: 30° and 45° Bay Unit/Projection

Scale: 3" = 1' 0"

30° Bay



45° Bay



NINDH Bay
A= Projection 2 15/16 + Jamb Depth

APPLICATION MATERIALS
BAR2015-00207
1124 PRINCE ST
7/1/2015

Section Details: Vertical Bay

Scale: 3" = 1' 0"

APPLICATION MATERIALS

BAR2015-00207

1124 PRINCE ST

7/1/2015

