



# CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

217 E SOUTH STREET

Address

PRINCE HALL

Historic District

Historic Property

153-14-MW

Certificate Number

9/30/2014

Date of Issue

3/30/2015

Expiration Date

Project Description:

- Change previously approved COA 106-14-CA.

*This card must be kept pasted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the Inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.*

Signature,   
Raleigh Historic Development Commission

*Pending the resolution of appeals, commencement of work is at your own risk.*



# Planning & Development

Development Services  
 Customer Service Center  
 One Exchange Plaza  
 1 Exchange Plaza, Suite 400  
 Raleigh, North Carolina 27601  
 Phone 919-996-2495  
 eFax 919-996-1831

## Raleigh Historic Development Commission – Certificate of Appropriateness (COA) Application



- Minor Work (staff review) – 1 copy
- Major Work (COA Committee review) – 13 copies**
- Most Major Work Applications
- Additions Greater than 25% of Building Square Footage
- New Buildings
- Demo of Contributing Historic Resource
- Post Approval Re-review of Conditions of Approval

Group # 338426

**For Office Use Only**

Transaction # 409935

File # 153-14-MW

Fee 29.00

Amt Paid 29.00

Check # Credit Card

Rec'd Date 9-24-14

Rec'd By Trudy sent to cashier

• If completing by hand, please use **BLACK INK**. Do not use blue, red, any other color, or pencil as these do not photocopy.

Property Street Address **217 E South Street, Raleigh, NC 27601**

Historic District **Prince Hall Historic District**

Historic Property/Landmark name (if applicable) **N/A**

Owner's Name **Telegraph Road Properties, LLC**

Lot size **3,529 sf** (width in feet) **44 feet** (depth in feet) **80 feet**

For applications that require review by the COA Committee (Major Work), provide addressed, stamped envelopes to owners of all properties within 100 feet (i.e. both sides, in front (across the street), and behind the property) not including the width of public streets or alleys:

Property Address	Property Address

I understand that all applications that require review by the commission's Certificate of Appropriateness Committee must be submitted by 4:00 p.m. on the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.



Type or print the following:		
Applicant <b>Telegraph Road Properties, LLC (Rodney Axtman)</b>		
Mailing Address <b>7709 Sandy Bottom Way</b>		
City <b>Raleigh</b>	State <b>NC</b>	Zip Code <b>27613</b>
Date <b>9/24/14</b>	Daytime Phone <b>919.356.0057</b>	
Email Address <b>mflynn3@yahoo.com; rodneyaxtman@gmail.com</b>		
Signature of Applicant _____		

**Minor Work Approval (office use only)**

Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until 3/30/15. Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor work projects not approved by staff will be forwarded to the Certificate of Appropriateness Committee for review at the next scheduled meeting.

Signature [Handwritten Signature] Date 9/30/14

**Project Categories (check all that apply):**

Exterior Alteration

Addition

New Construction

Demolition

Will you be applying for state or federal rehabilitation tax credits for this project?

Yes

No

**(Office Use Only)**

Type of Work \_\_\_\_\_

\_\_\_\_\_

89

\_\_\_\_\_

**Design Guidelines** Please cite the applicable sections of the design guidelines ([www.rhdc.org](http://www.rhdc.org)).

Section/Page	Topic	Brief Description of Work
3.7/38-41	Windows and Doors	New windows to be installed

	TO BE COMPLETED BY APPLICANT		TO BE COMPLETED BY CITY STAFF		
	YES	N/A	YES	NO	N/A
<p>Attach 8-1/2 " x 11" sheets with written descriptions and drawings, photographs, and other graphic information necessary to completely describe the project. Use the checklist below to be sure your application is complete.</p> <p><b>Minor Work (staff review) – 1 copy</b></p> <p><b>Major Work (COA Committee review) – 13 copies</b></p>					
1. <b>Written description.</b> Describe clearly and in detail the nature of your project. Include exact dimensions for materials to be used (e.g. width of siding, window trim, etc.)	<input checked="" type="checkbox"/>		✓		
2. <b>Description of materials</b> (Provide samples, if appropriate)	<input checked="" type="checkbox"/>		✓		
3. <b>Photographs</b> of existing conditions are required.	<input checked="" type="checkbox"/>		✓		Copy of photos per client
4. <b>Paint Schedule</b> (if applicable)	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
5. <b>Plot plan</b> (if applicable). A plot plan showing relationship of buildings, additions, sidewalks, drives, trees, property lines, etc., must be provided if your project includes any addition, demolition, fences/walls, or other landscape work. Show accurate measurements. You may also use a copy of the survey you received when you bought your property. Revise the copy as needed to show existing conditions and your proposed work.	<input checked="" type="checkbox"/>	<input type="checkbox"/>		✓	
6. <b>Drawings</b> showing proposed work <ul style="list-style-type: none"> <li><input type="checkbox"/> Plan drawings</li> <li><input type="checkbox"/> Elevation drawings showing the new façade(s).</li> <li><input type="checkbox"/> Dimensions shown on drawings and/or graphic scale.</li> <li><input type="checkbox"/> 8-1/2" x 11" reductions of full-size drawings. If reduced size is so small as to be illegible, make 8-1/2" x 11" snap shots of individual drawings on the big sheet.</li> </ul>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	✓		
7. Stamped envelopes addressed to all property owners within 100 feet of property not counting the width of public streets and alleys. (Required for Major Work)	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
8. <b>Fee</b> ( <a href="#">See Development Fee Schedule</a> )	<input checked="" type="checkbox"/>				

**Wood Windows, Written Description:**

The property located at 217 E South Street, Raleigh, NC in the Prince Hall Historic District has been approved per COA Application 106-14-CA, pending approval of the windows. In the COA application, windows were to be 2/2 Ply-gem 100 series wood windows. It was later found that 2/2 Ply-gem wood windows have snap-in muntins, which are not acceptable per RHDC's guidelines. We are proposing to use 2/2 Sitaline EX double hung wood windows with SDL throughout the house, eliminating the snap in muntins.

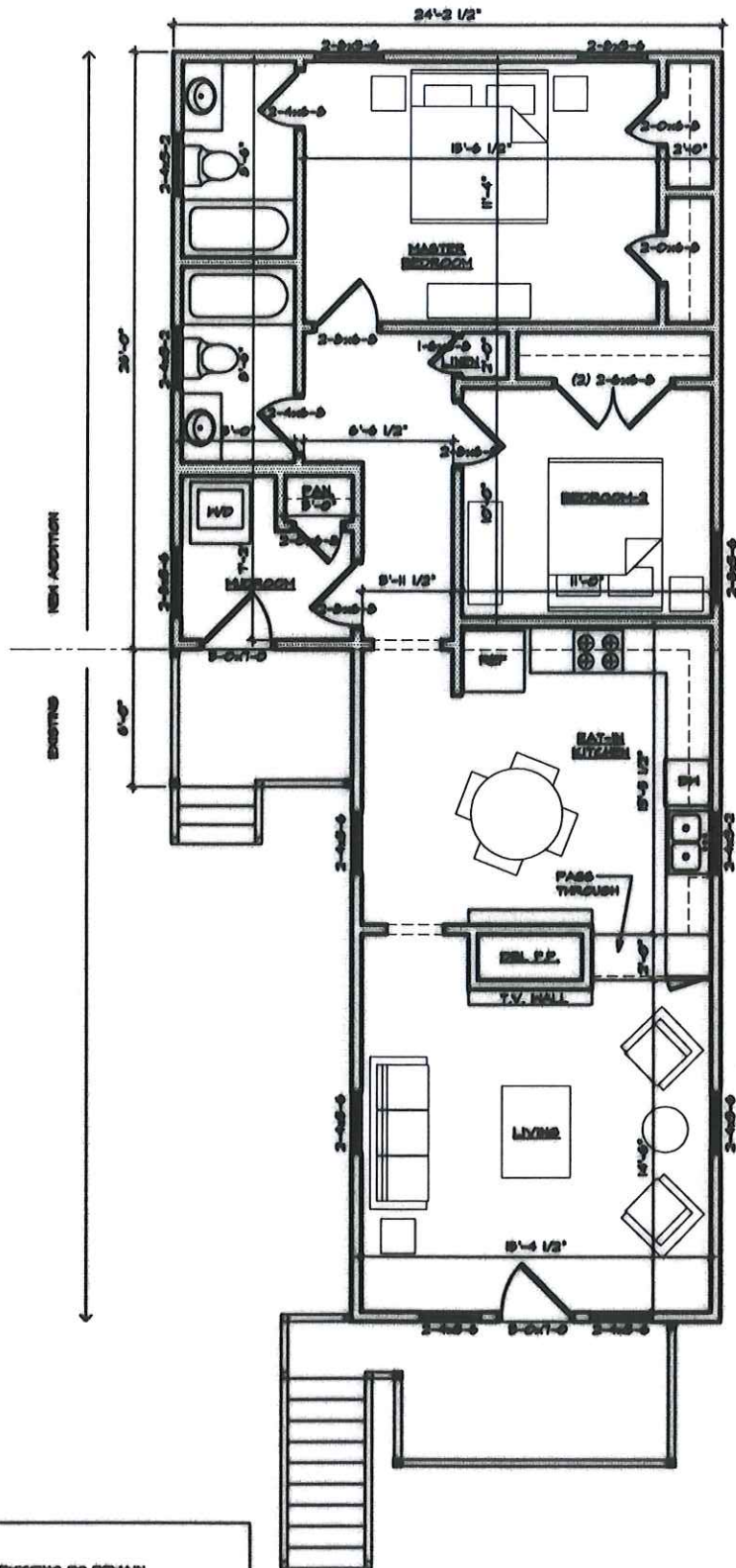
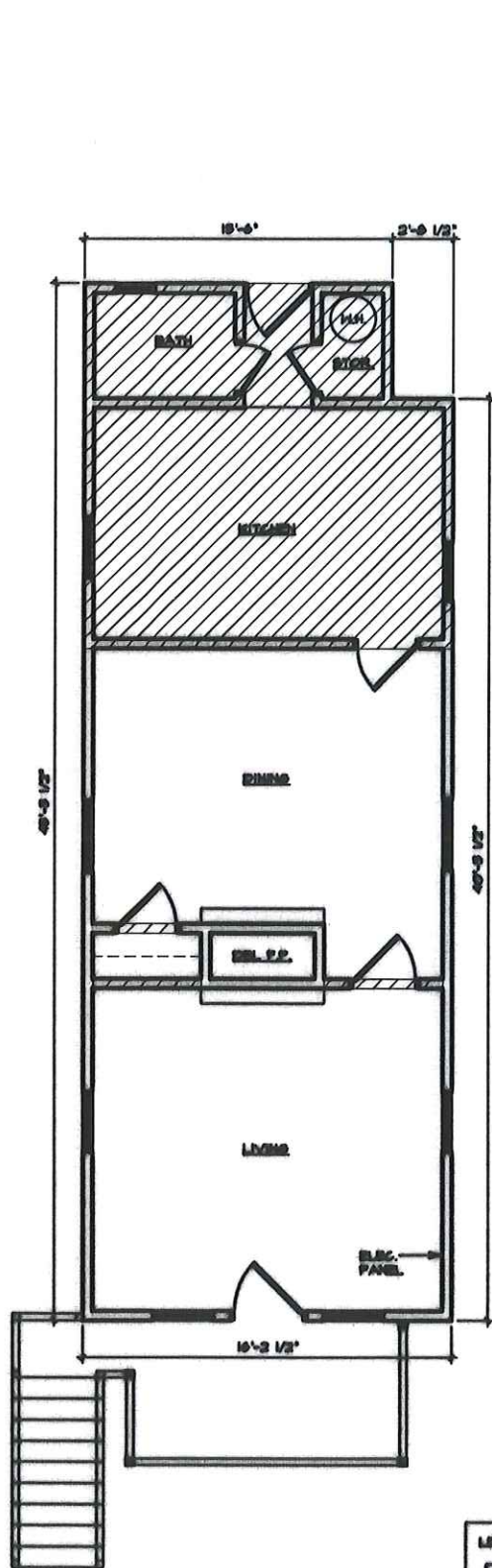
**Wood Windows, Description of Materials:**

All windows shall be all wood in construction, with no brick mould, and one vertical grille in the top and bottom of the window. The specifications for the windows is attached.




**Wood Wind, Plans:**

Attached: Plans for 217 E South with 2/2 windows.

Specifications for Sitaline EX Windows



**LEGEND:**

-  EXISTING TO REMAIN
-  DEMO
-  NEW 2x4 HIDDEN STUD MALL

**217 E SOUTH ST**

EXISTING • PROPOSED PLANS

SCALE: 1/8" = 1'-0"

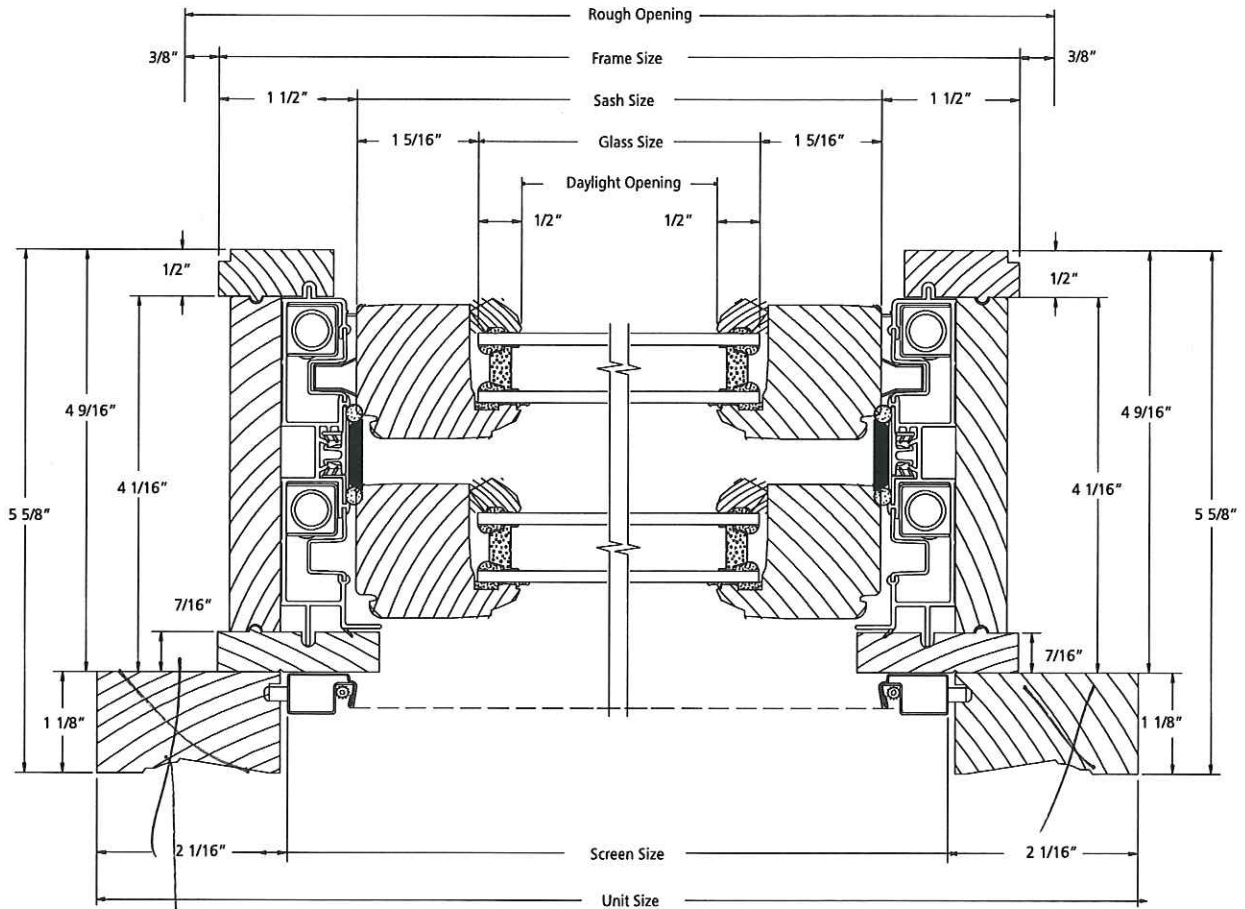
07/16/2014

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**1-WIDE UNIT**



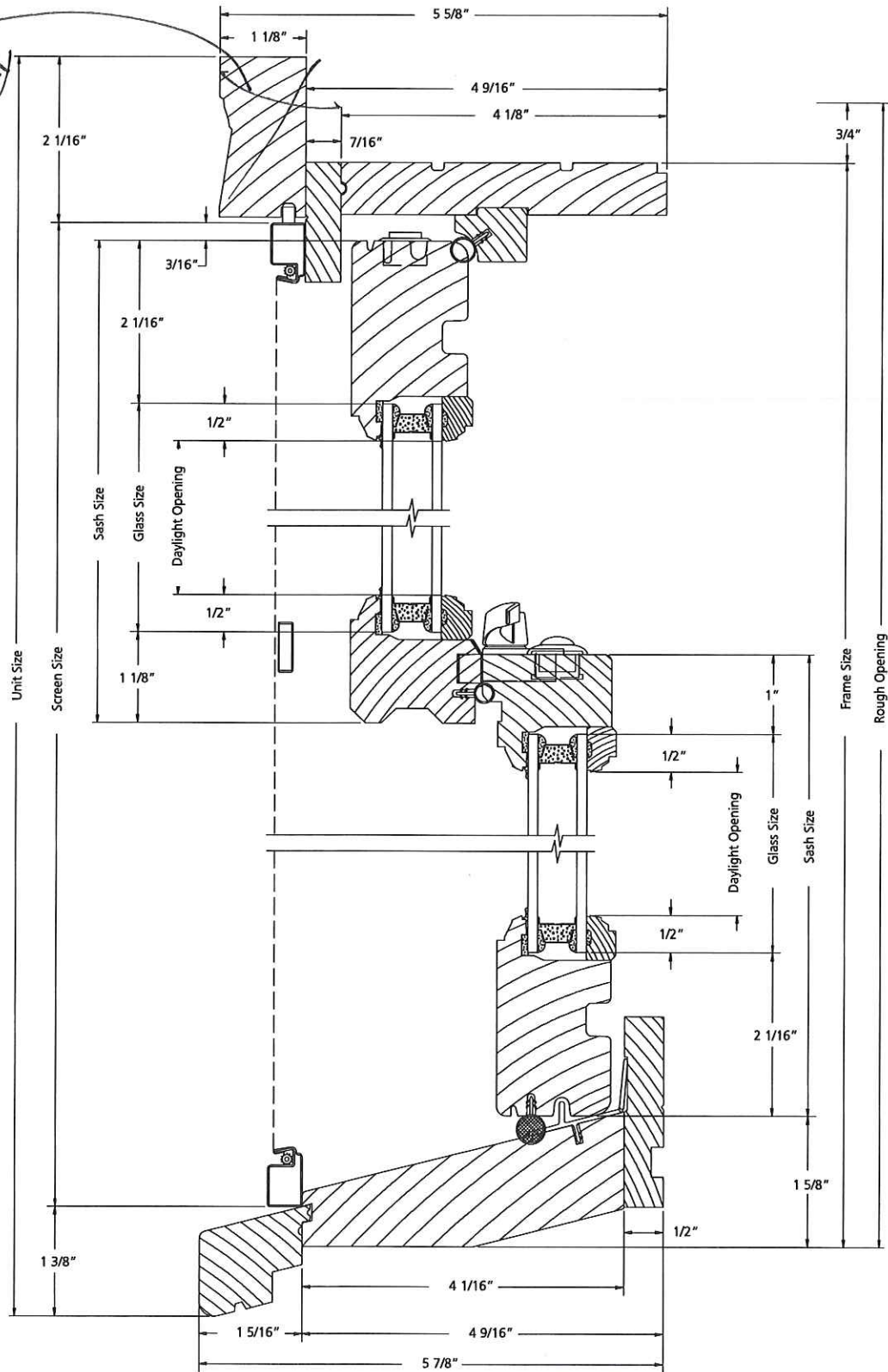
**HORIZONTAL SECTION**

*Trim per previously  
approved COA.  
TGT*

SCALE: 6" = 1'

**1-WIDE UNIT  
DP50**

*Trim  
per  
approved  
COA  
T&G*



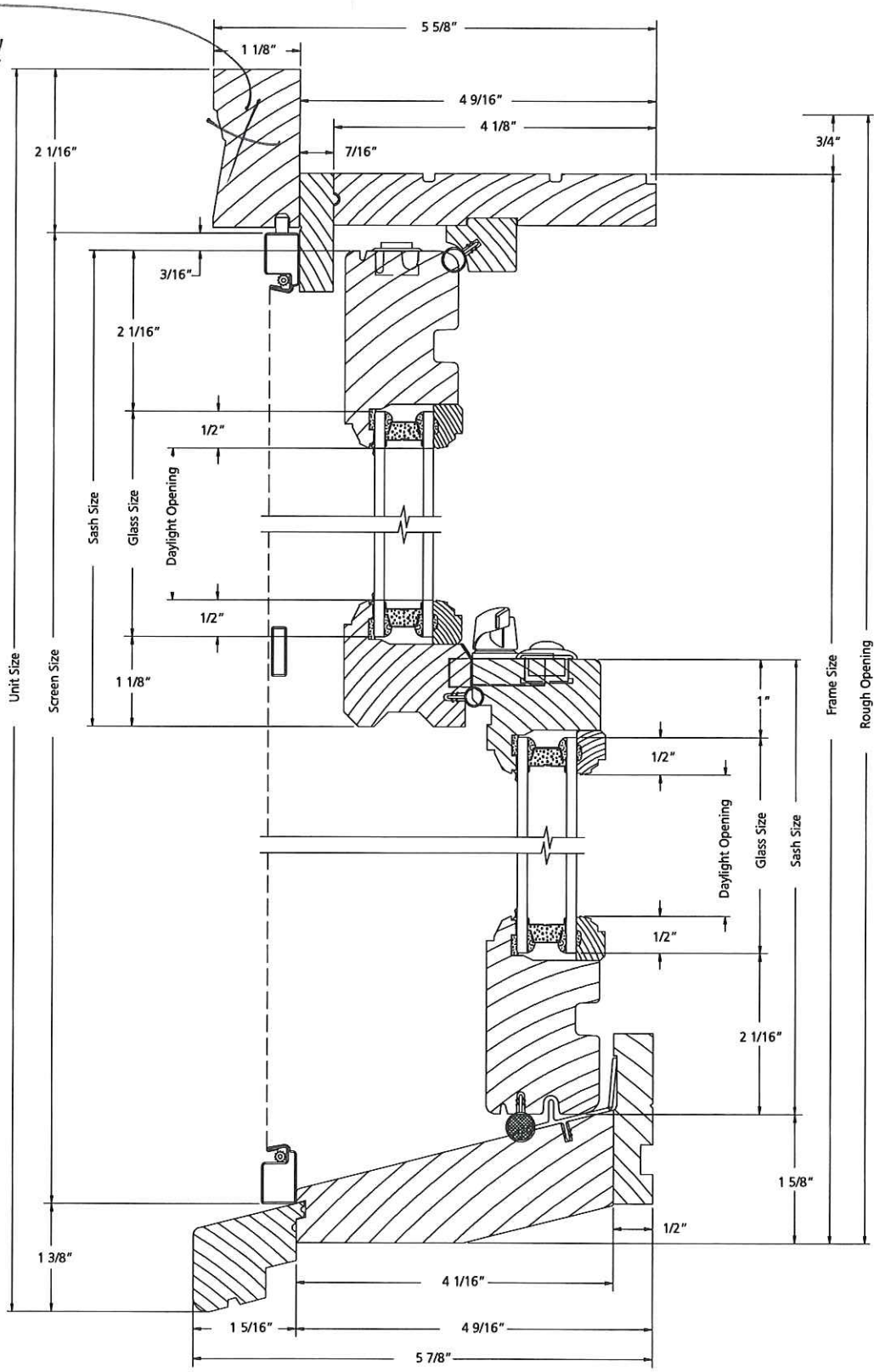
**VERTICAL SECTION**

SCALE: 6" = 1'



**1-WIDE UNIT  
DP35**

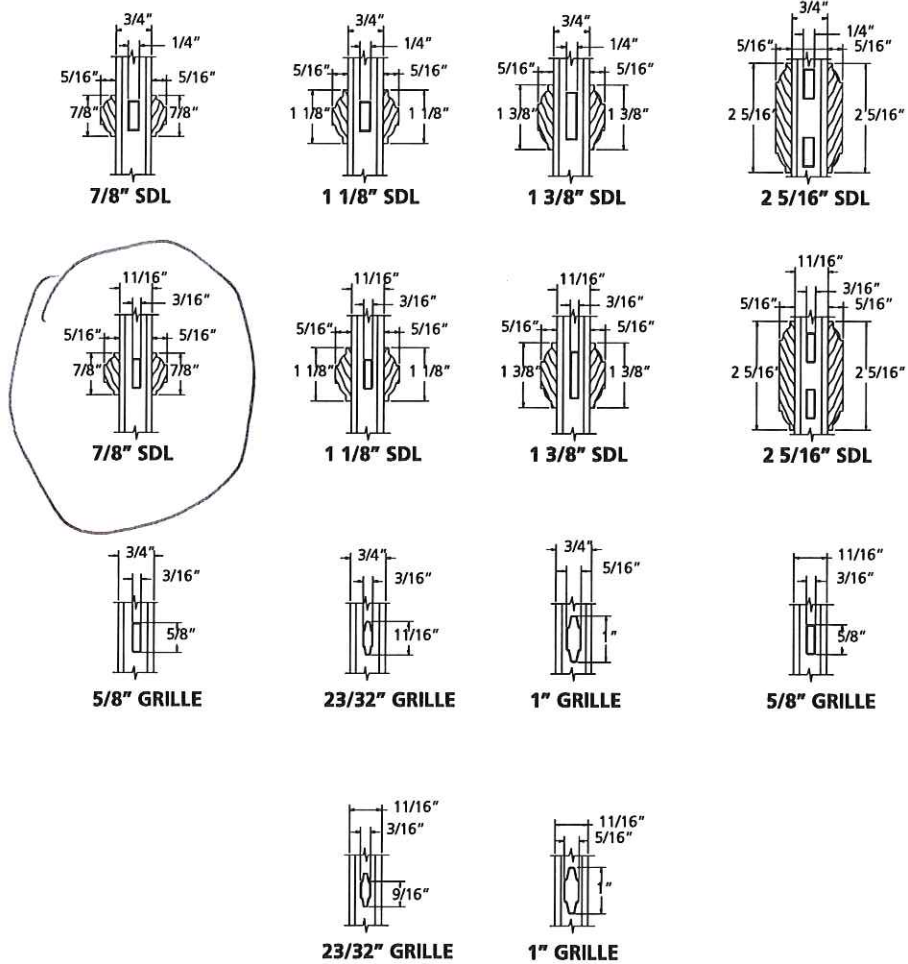
*Trim  
per previous  
approved  
C&A.  
TGT*



**VERTICAL SECTION**

SCALE: 6" = 1'

**DIVIDED LITE OPTIONS**



**GRILLES MEETING**  
NFRC 3mm RULE

**GRILLE PROFILES:**

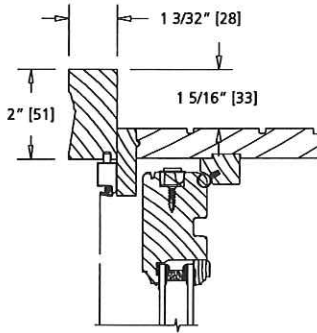
3/16" x 5/8"	ALLMETAL 1021101018XX140
3/16" x 1"	ALLMETAL 1020101018XX164
1/4" x 5/8"	ALLMETAL 1020102018XX140
1/4" x 1"	ALLMETAL 1020102018XX164
5.5mm x 18mm CONTOUR	ALLMETAL 1020301010XX255
8mm x 25mm CONTOUR	ALLMETAL 1020301018XX380

**Note:** All glass and airspace dimensions per current cardinal glass specs. Lites with shapes, angles or radii outside the Lisec Bender capabilities for stainless steel warm edge spacer will have aluminum box spacer with the same airspace dimension shown here.

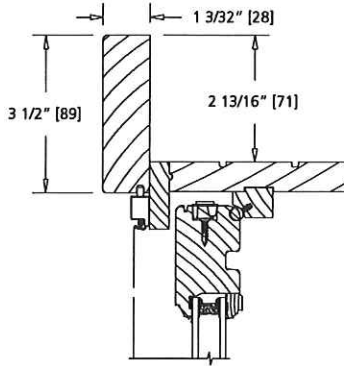
SCALE 3" = 1'

**TRIM & SILL OPTIONS**  
**DOUBLE-HUNG**

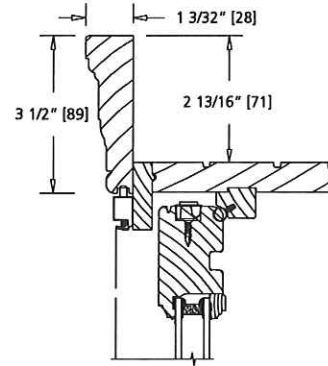
**EXTERIOR TRIM**



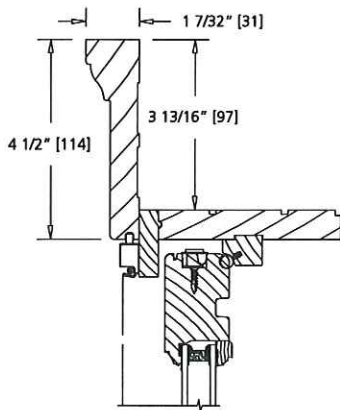
**BRICKMOULD**



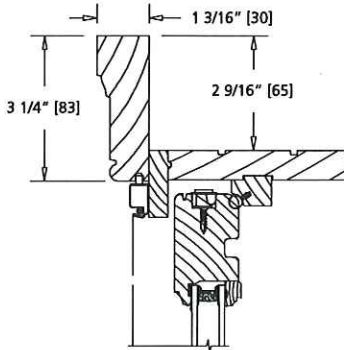
**FLAT CASING**



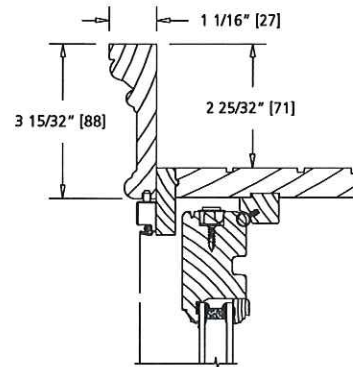
**ADAMS CASING**



**1 X 4 BACKBAND**

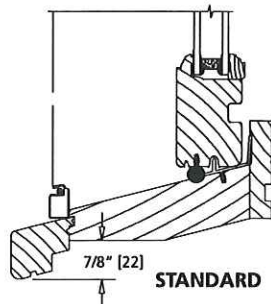


**WILLIAMSBURG**

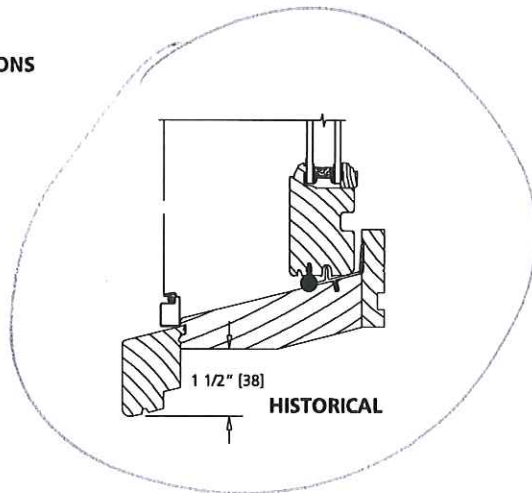


**RB 3 CASING**

**SILL OPTIONS**



**STANDARD**



**HISTORICAL**

SCALE: 3" = 1'

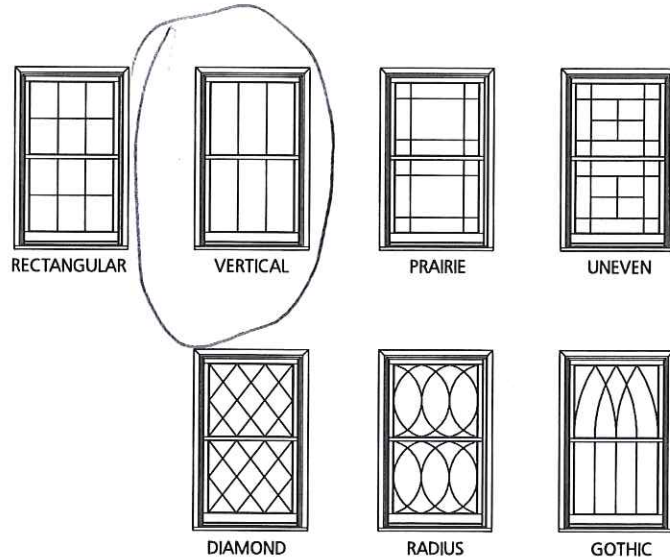


**LITE CUT INFORMATION**

Wood double-hung windows are available in 7/8", 1-1/8" and 1-3/8" widths for SDL (Simulated Divided Lites); 5/8" Flat, 23/32" and 1" Contour GBG (Grilles between the Glass); and 7/8", 1-1/8" and 1-3/8" Full Surround removable grilles. Standard lite cuts are rectangular.

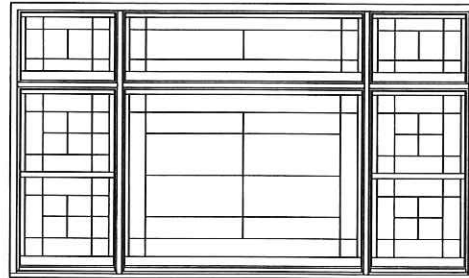
**LITE CUT OPTIONS**

Special lite cut patterns can include a wide variety of straight line and radius patterns. The illustrations shown here represent just a few of the possibilities. Rectangular, horizontal, vertical and Prairie lite patterns are available in all standard size wood double-hung windows. Uneven, diamond, radius and Gothic lite cuts are available, subject to approval. Approvals are based on the ability to fulfill the design requirement while maintaining the construction integrity of the finished product.



**BAR ALIGNMENT**

Alignment of divided lite muntin bars from one window to the next is often required by fine architectural design. Wood grilles, GBG (Grilles between the Glass), and Simulated Divided Lites may be specified with muntin bars aligned.



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**PRODUCT SPECIFICATIONS****EXTERIOR FINISH**

All exterior surfaces are covered with a factory-applied latex primer.

**AURALAST® WOOD**

AuraLast® wood is fundamentally different from wood resulting from traditional millwork preservation processes in that it uses a proprietary vacuum/pressure process to provide protection throughout the wood parts used to make windows and doors. AuraLast® wood is distinguished from wood using the current preservation methods by its unique ability to achieve greater penetration of the active ingredients into the wood parts, with a penetration of the treatment being a minimum of 92%.

**INTERIOR FINISH**

All interior surfaces are unfinished clear pine ready for on site finishing. Primed and pre-finished interiors are available in paint: Pure White, Extra White, Natural Choice, Moderate White; in stain: Wheat, Cherry, Fruitwood, Cordovan, Cider and Clear Lacquer.

**FRAME**

Frame is assembled from select kiln dried pine using AuraLast® wood on all exterior parts. Frame corner joints are tightly secured with metal fasteners and adhesive. Frame thickness is 1 1/16" (17.5mm) at head, side jamb and sill. Basic jamb width is 4-9/16" (116mm) and may be extended for different wall depths. Finished frame has exterior casing, sill nosing, weather-stripping, hardware, and interior stops applied.

**SASH**

Sash is 1-7/16" (36.5mm) thick select kiln-dried pine using AuraLast® wood. Stiles and rails are mortise and tenoned, machine clamped for squareness and secured with metal fasteners. The glass is mounted into the sash using a silicone-glazing compound on the exterior and acrylic sealant on the interior, then secured with interior applied profiled wood stops. Sash operate in a non-compression ivory colored jamb liner that allows both top and bottom sash to tilt inside for easy cleaning and removal without the use of tools. No finger plow sash available on venting units.

**GLAZING**

3/4" (19mm) thick sealed insulating glass is constructed from two panes of glass, utilizing a continuous roll formed stainless steel spacer with dual seal sealant. The glass is mounted into the sash using a silicone-glazing compound and secured with interior applied profiled wood stops. All insulating glass units comply with the performance requirements of IGCC in accordance with either ASTM E774 or E2190.

**GLAZING OPTIONS**

3/4" insulating glass available in Low-E with Argon, Low-E, Low-E 366, Clear, Neat Glass, reflective, tinted, or obscure, tempered or other specialty glass as specified. Preserve® film is a 0.003" thick polyethylene film with a low tack acrylic adhesive applied to the glass for protection during shipping and installation. 4,000 foot elevations and higher require a capillary tube to equalize environmental stress (otherwise known as High Altitude glazing). High Altitude glazing does not allow the use of Argon as listed under glazing options.

**WEATHER-STRIPPING**

Engineered system combines PVC ivory jamb liner with dual bulb weather-stripping at head. Checkrail features thermoplastic rubber bulb and recessed cam action sash lock for secure closure. Rigid vinyl water stops at sill provide additional restraint against weather.

**HARDWARE**

Sash operate by means of a dual block and tackle balance system with nylon roller pulleys and high-tension coil springs. Balance system gauged to sash weight and uses pre-stretched dacron cords attached to clutch mechanisms to insure smooth, operation and compliance with operating force requirements. Jamb liners are Ivory (White is optional). Recessed cam action sash lock is available in White, Chestnut Bronze, Desert Sand or optional Bright Brass, Antique Brass, Polished Brass, Brushed Chrome or Imitation Oil Rubbed Bronze. 28" glass width and larger units have two sash locks. Optional Lexan sash lift available for no finger plow sash.

**EXTERIOR INSECT SCREENS**

Charcoal fiberglass screen cloth (18x16 mesh) set in painted roll formed aluminum frame with color to match cladding - choice of Brilliant White, Chestnut Bronze, Desert Sand, French Vanilla, Hartford Green, Mesa Red, Black, Arctic Silver or Dark Chocolate, installed in channel on frame extrusion and held in place with spring loaded plungers at the top and sides of screen. Aluminum mesh and Phantom screen also available. Insect screens are intended to allow air and light in and to keep insects out. They are not intended to keep anyone or anything from falling through an open window. For safety screens or other security devices contact your local building supply retailer.

**GRILLES**

**SDL** (Simulated Divided Lites) - wood muntins permanently applied to the exterior of the insulating glass unit (not available on textured glass) in 7/8" (22mm), 1-1/8" (28.5mm), or 1-3/8" (34.9mm) widths, and a putty profile in 5/8" (15.9mm), 7/8" (22mm) and 1-1/8" (28.5mm) widths only. SDL is standard with a light bronze internal shadow bar to give a true divided lite appearance. As an option, SDL may be ordered with a silver shadow bar. Clear wood interior muntin bars match the exterior muntin width and are permanently bonded to the interior of the glass. Also available is a 2-5/16" (59mm) SDL bar, which simulates a double-hung checkrail.

**Full Surround Wood Grilles** - Rectangular unfinished clear pine wood grilles in 7/8" (22mm), 1-1/8" (28.6mm) and 1-3/8" (35mm) are available in patterns selected by the owner.

**GBG** (Grilles between the Glass) - 5/8" (15.9mm) flat and 23/32" or 1" contour mounted between the glass panes suspended within the air cavity.

**EXTERIOR TRIM**

1-3/32" (27.8mm) x 2" (50.8mm) brickmould with 1-1/16" (27mm) x 1-3/4" (44.5mm) nosing is standard. Flat casing is available as 1-3/32" (27.8mm) x 2" (50.8mm), 1-3/32" (27.8mm) x 3-1/2" (89mm), 1-3/32" (27.8mm) x 4-1/2" (114.3mm), and 1-3/32" (27.8mm) x 5-1/2" (139.7mm). The following profiled casings are available: RB-3 and Adams as 1-1/16" x 3-1/2" (89mm), and Williamsburg 1-3/16" x 3-1/4". Historical wood sill nosing 1-3/4" (44.5mm) and 2-13/16" (71.4mm) is also available.

*Continued on next page*



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**PRODUCT SPECIFICATIONS**

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**EXTENSION JAMBS**

Extension jambs are factory applied to the interior on all four sides of the frame and are 4/4 standard thick pine to accommodate wall depths up to 9-5/16" with one piece, and up to 12" with two pieces. 9/16" (14.2mm) option also available.

**INSTALLATION**

Installation per JELD-WEN Installation Method for Wood Windows JI1003 or JI1012. See [www.jeld-wen.com/resources](http://www.jeld-wen.com/resources) for instructions.

**PERFORMANCE**

**NFRC Certified** - (Rated and labeled in accordance with NFRC)

WDMA Hallmark Certified -

In accordance with **AAMA/NWWDA/101/I.S.2-97**

QUICK SPEC GUIDE

SPECIFICATION	STANDARD FEATURES	OPTIONAL FEATURES <i>Some options may require additional lead times. Consult your JELD-WEN Sales Representative.</i>
<b>FRAME</b>	<ul style="list-style-type: none"> <li>Fingerjoint Wood</li> </ul>	
<b>EXTERIOR FINISH</b>	<ul style="list-style-type: none"> <li>Primed</li> </ul>	<ul style="list-style-type: none"> <li>Natural</li> </ul>
<b>EXTERIOR TRIM</b>	<ul style="list-style-type: none"> <li>1-3/32" Brickmould</li> <li>Wood Sill Nose</li> <li>Drip Cap</li> </ul>	<ul style="list-style-type: none"> <li>Flat Casing: 1-3/32" x 2", 3-1/2", 4-1/2", and 5-1/2"</li> <li>Heritage Casing: 1-3/16" x 3-1/4"</li> <li>Adams Casing: 1-1/16" x 3-1/2"</li> <li>RB3 Casing: 1-1/16" x 3-1/12"</li> <li>1-7/32" x 4-1/2" Backband</li> <li>No Brickmould Option</li> <li>Historical Sill Nose</li> <li>Clad Metal Drip Cap (White only)</li> </ul>
<b>INTERIOR FINISH</b>	<ul style="list-style-type: none"> <li>Natural</li> </ul>	<ul style="list-style-type: none"> <li>Priming Available</li> </ul> <p>Pre-finished Interior Options are:</p> <ul style="list-style-type: none"> <li>Paint - Pure White, Extra White, Natural Choice, Moderate White</li> <li>Stain - Wheat, Fruitwood, Cherry, Cordovan, Cider</li> <li>Clear Lacquer</li> </ul>
<b>SIZE</b>	<ul style="list-style-type: none"> <li>Width: <ul style="list-style-type: none"> <li>Venting Double-Hung: 21-3/8, 25-3/8, 29-3/8, 31-3/8, 33-3/8, 37-3/8, 41-3/8, 45-3/8</li> <li>Picture Double-Hung: 21-3/8, 25-3/8, 29-3/8, 31-3/8, 33-3/8, 37-3/8, 41-3/8, 45-3/8, 49-3/8, 53-3/8, 61-3/8, 69-3/8, 77-3/8</li> </ul> </li> <li>Height: <ul style="list-style-type: none"> <li>Venting Double-Hung: 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 88, 92</li> <li>Picture Double-Hung: 15, 18, 24, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 88, 92</li> </ul> </li> <li>For RO, add 3/4"</li> </ul>	<ul style="list-style-type: none"> <li>Width: <ul style="list-style-type: none"> <li>Venting Double-Hung: Minimum: 16" Maximum: 45-3/8"</li> <li>Picture Double-Hung: Minimum: 16" Maximum: 77-3/8" Fixed Units over 49-3/8" wide can be up to 80" high Fixed Units up to 49-3/8" wide can be up to 92" high</li> </ul> </li> <li>Height: <ul style="list-style-type: none"> <li>Venting Double-Hung: Minimum: 28" Maximum: 92" * * glass can't exceed 42" high</li> <li>Picture Double-Hung: Minimum: 15" Maximum: 92" Fixed Units over 49-3/8" wide can be up to 80" high Fixed Units up to 49-3/8" wide can be up to 92" high</li> </ul> </li> <li>For RO, add 3/4"</li> </ul>
<b>GLAZING</b>	<ul style="list-style-type: none"> <li>Low-E Insulating Glass</li> <li>Preserve® Protective Film</li> </ul>	<ul style="list-style-type: none"> <li>Clear</li> <li>Obscure</li> <li>Bronze</li> <li>Low-E 366</li> <li>High Altitude</li> <li>Neat Glass</li> <li>Dual Low-E</li> <li>Reflective</li> <li>Tempered</li> </ul>

Continued on next page

QUICK SPEC GUIDE

SPECIFICATION	STANDARD FEATURES	OPTIONAL FEATURES <i>Some options may require additional lead times. Consult your JELD-WEN Sales Representative.</i>
<b>GRILLES</b>		<ul style="list-style-type: none"> <li>• 5/8" Flat, 23/32" or 1" Contour GBG</li> <li>• 7/8", 1-1/8", 1-3/8" Full Surround Wood Grilles</li> </ul> <p>SDL Bead Profile:</p> <ul style="list-style-type: none"> <li>• 7/8", 1-1/8", 1-3/8", 2-5/16" with Light Bronze Shadow Bar</li> <li>• 7/8", 1-1/8", 1-3/8", 2-5/16" with Silver Shadow Bar</li> </ul> <p>SDL Putty Profile:</p> <ul style="list-style-type: none"> <li>• 5/8", 7/8", 1-1/8" with Light Bronze Shadow Bar</li> <li>• 5/8", 7/8", 1-1/8" with Silver Shadow Bar</li> </ul>
<b>HARDWARE</b>	<ul style="list-style-type: none"> <li>• Balance: Dual Block and Tackle</li> <li>• Cam Locks</li> <li>• Ivory Jamb Liners (standard)</li> </ul>	<ul style="list-style-type: none"> <li>• White</li> </ul>
<b>HARDWARE COLOR</b>	<ul style="list-style-type: none"> <li>• White</li> <li>• Desert Sand</li> <li>• Chestnut Bronze</li> </ul>	<ul style="list-style-type: none"> <li style="width: 50%;">• Antique Brass</li> <li style="width: 50%;">• Brushed Chrome</li> <li style="width: 50%;">• Polished Brass</li> <li style="width: 50%;">• Oil Rubbed Bronze</li> </ul>
<b>JAMB</b>	<ul style="list-style-type: none"> <li>• 4-9/16"</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum: 4-9/16"</li> <li>• Maximum: 9-5/16" (one piece)</li> <li>• Maximum: 12" (two piece)</li> </ul>
<b>SCREENS</b>	<ul style="list-style-type: none"> <li>• BetterVue™</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminum Mesh available</li> <li>• Phantom Screen - Limitations apply, factory-applied</li> <li>• UltraVue™</li> </ul>
<b>SCREEN FRAME COLOR</b>	<ul style="list-style-type: none"> <li style="width: 50%;">• Brilliant White</li> <li style="width: 50%;">• Hartford Green</li> <li style="width: 50%;">• Chestnut Bronze</li> <li style="width: 50%;">• Black</li> <li style="width: 50%;">• Desert Sand</li> <li style="width: 50%;">• Arctic Silver</li> <li style="width: 50%;">• French Vanilla</li> <li style="width: 50%;">• Dark Chocolate</li> <li style="width: 50%;">• Mesa Red</li> </ul>	<ul style="list-style-type: none"> <li style="width: 50%;">• Bronze</li> <li style="width: 50%;">• Hunter Green</li> <li style="width: 50%;">• Heirloom White</li> <li style="width: 50%;">• Sage Brown</li> <li style="width: 50%;">• Bone White</li> <li style="width: 50%;">• Redwood</li> <li style="width: 50%;">• Dark Buckskin</li> <li style="width: 50%;">• Sea Foam</li> <li style="width: 50%;">• Smoke</li> <li style="width: 50%;">• Ivory</li> <li style="width: 50%;">• Mocha Cream</li> <li style="width: 50%;">• Cascade</li> </ul>



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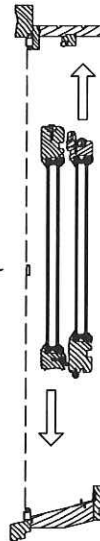
**HANDING & OPERATION  
DOUBLE-HUNG**

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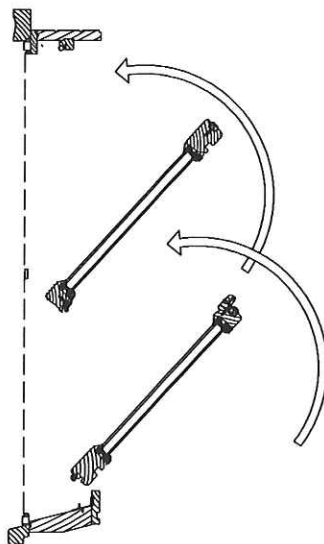
**DOUBLE-HUNG OPERATION:**  
When the sash are locked at the check rails the sash are closed and sealed in the sash opening of the frame.

When the sash are unlocked the lower sash travels vertically to any position desired. The upper sash can also be positioned as desired.

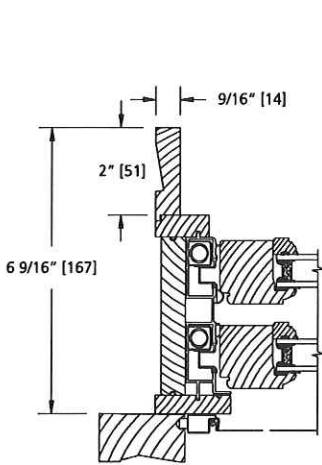


**SASH TILTING FOR WASHING**

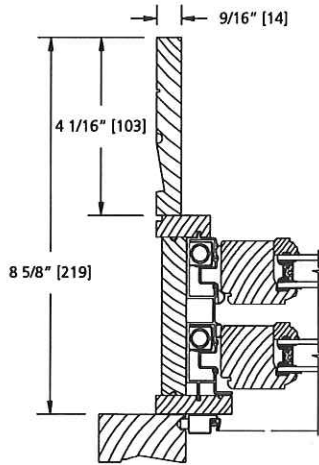
The Custom Double-Hung window will allow the sash to be tilted or removed for easy cleaning.



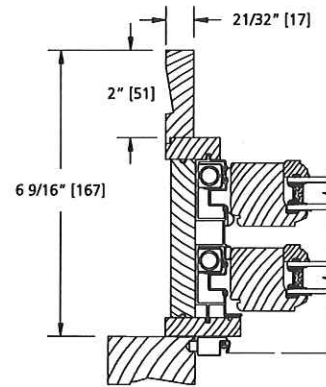
**JAMB EXTENDER OPTIONS**



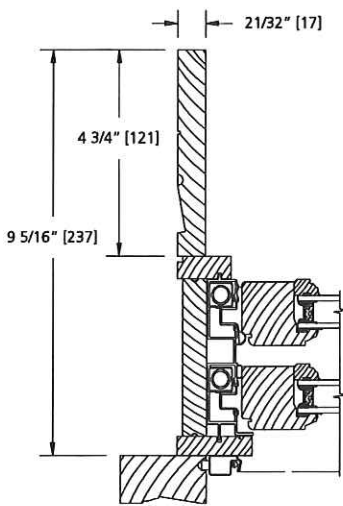
**6 9/16" WALL**  
9/16" JAMB THICKNESS (OPTION)



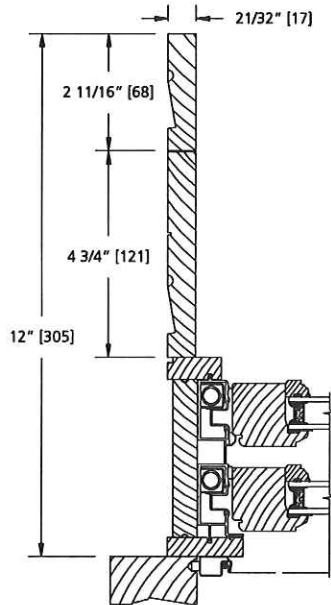
**8 5/8" WALL**



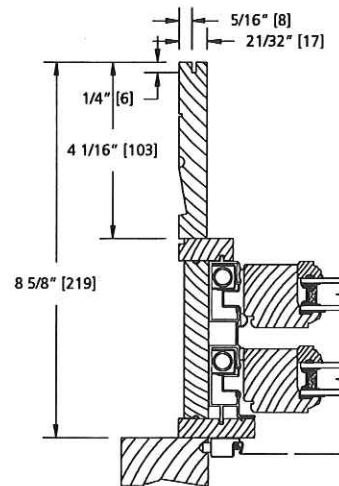
**6 9/16" WALL**  
4/4 JAMB THICKNESS (STANDARD)



**9 5/16" WALL**



**12" WALL**  
4/4 JAMB THICKNESS (STANDARD)  
2 PC JAMB EXTENSION SHOWN



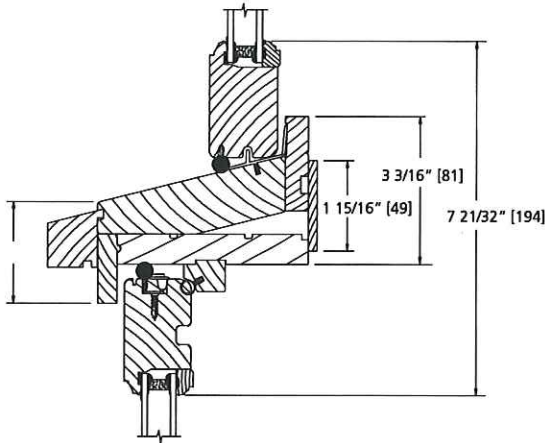
**8 5/8" WALL**  
4/4 JAMB THICKNESS (STANDARD)  
KERFED EXTENSION SHOWN

**Notes:**

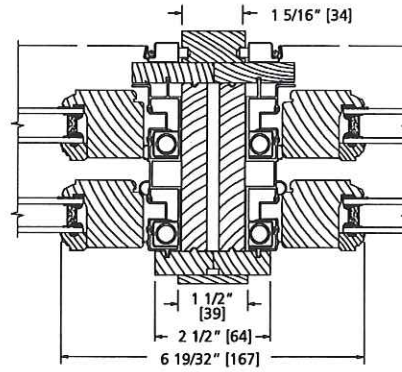
Double-Hungs to have standard (4/4 thick) extension option.  
Double-Hungs to have 9/16" thickness option & 4/4 kerfed option.

SCALE: 3" = 1'

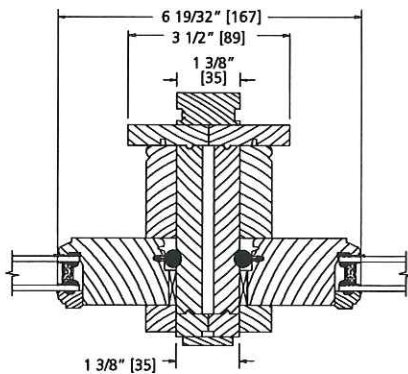
STANDARD MULLION OPTIONS



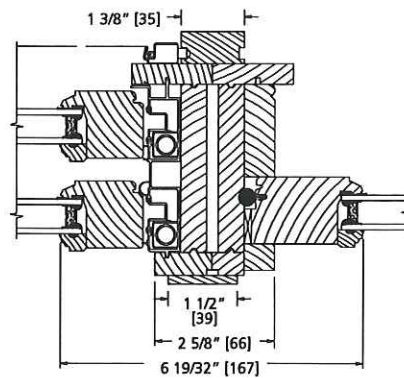
**OPERATING DOUBLE-HUNG  
WITH FIXED TRANSOM**



**TWIN OPERATING DOUBLE-HUNG**



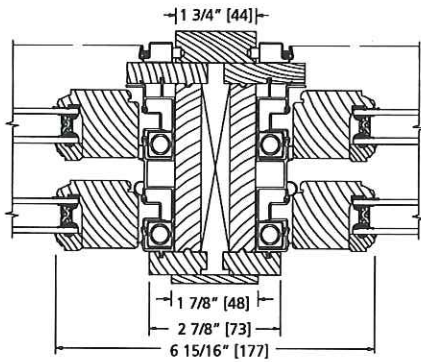
**DOUBLE-HUNG PICTURE  
WITH DOUBLE-HUNG PICTURE**



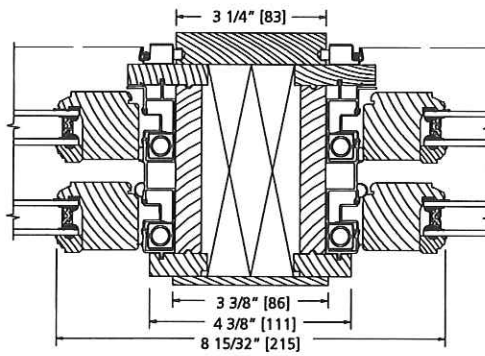
**TWIN OPERATING DOUBLE-HUNG  
WITH PICTURE FLANKERS**



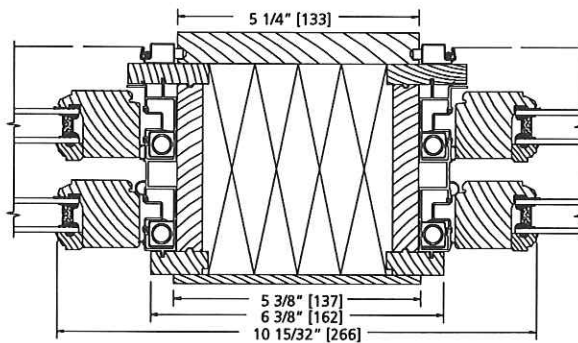
STANDARD MULLION OPTIONS



**TWIN OPERATING DOUBLE-HUNG  
WITH 1" SOLID SPREAD MULLION**



**TWIN OPERATING DOUBLE-HUNG  
WITH 2" SOLID SPREAD MULLION**



**TWIN OPERATING DOUBLE-HUNG  
WITH 4" SOLID SPREAD MULLION**