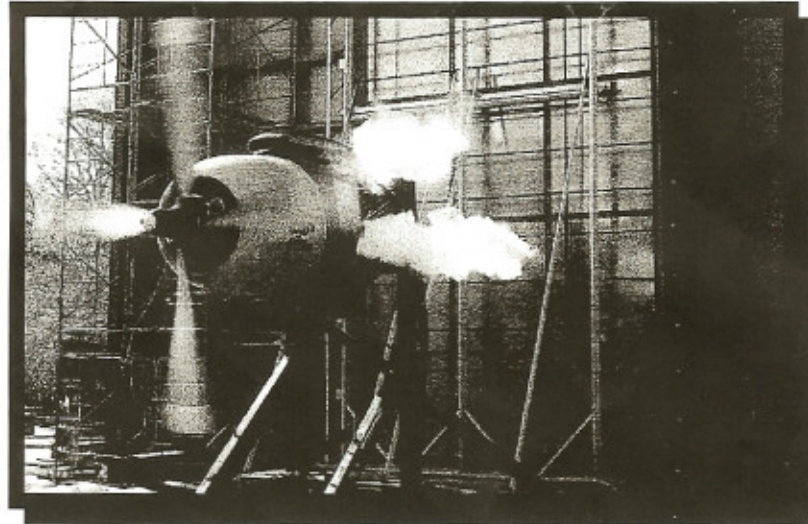




CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL*



TEST REPORT:

**ASTM E 330-97 PERFORMANCE TEST
U.S. ALUMINUM JC-462/M-411
REPORT #CCLI-03-091**

June 3, 2003

Prepared for:

UNITED STATES ALUMINUM CORPORATION
200 Singleton Drive
Waxahachie, TX 75165

1601 Luna Road
Carrollton, Texas 75006

S- UNITED, INC.
A Quality Control Company

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APPENDIX

APPENDIX A: U.S. ALUMINUM JC-462/M-411 DRAWINGS



1. PROJECT DATA

<u>Project:</u>	ASTM E 330-97 Performance Test U.S. Aluminum JC-462/M-411
<u>Date of Testing:</u>	May 19, 2003
<u>Tested For:</u>	U.S. Aluminum 200 Singleton Drive Waxahachie, TX 75165

<u>Witnessed By:</u>	(All or Partial Viewing)
Michael Brown	U.S. Aluminum
Terry Hopgood	U.S. Aluminum
Jeffrey Crump	Construction Consulting Laboratory, <i>International</i>



2. INTRODUCTION

This report presents the performance results of a U.S. Aluminum JC-462/M-411. Tests were conducted at the U.S. Aluminum testing facility in Waxahachie, TX.

3. SCOPE

Construction Consulting Laboratory, *International* (CCLI) was requested to witness and report the testing results of U.S. Aluminum JC-462/M-411. Tests were performed in accordance with ASTM E 330-97 "Standard Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference."

4. SUMMARY

The U.S. Aluminum JC-462/M-411 was tested in accordance with ASTM E 330-97 test specifications and achieved a Pressure of 45psf.

5. TEST SPECIMEN

Product Type: Aluminum Storefront
Series Model: JC-462/M-411
Publication No: ASTM E 330-97
Frame Size: 9'-4 $\frac{1}{4}$ " x 7'-3 $\frac{1}{8}$ "
Configuration: O.O

Refer to mock-up drawings in **Appendix A**. This report is not complete unless this laboratory symbol is stamped and initialed onto drawings.



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Weather-Stripping: None

Hardware: None

Glass: 1" overall thickness sealed insulating glass: 2 pcs. $\frac{1}{4}$ " tempered glass with $\frac{1}{2}$ " air space.



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Glazing: Captured with glazing gasket (part #NP225) located at interior and exterior of glass of frame jambs. Frame head and sill is exterior glazed with glazing gasket (part #NP225) at interior of glass and glazing bead (part #IM453) with glazing gasket (part #NP225) at exterior of glass.

Weep Arrangement: None

Sealant: Dow 795 at frame perimeter.

Reinforcement: None

Installation Features: Test specimen was installed in a nominal (2" x 10") yellow pine wood test buck attached with #12 x 3" wood screws spaced 4" from each vertical mullion at sub-head and sub-sill, total of four (4).

Other Features: Frame horizontals (part #IS463) attached to each vertical with two (2) #10 x 1" HWH screws at each end (part #ST-251). Vertical mullions are snap fit continuous (part #I-452 and IS-200). Side blocks are located inside the frame vertical pocket approximately at center of day light opening.

Date testing started: May 19, 2003

Date testing completed: May 19, 2003

Test performed at: U.S. Aluminum testing facility in Waxahachie, TX

6. PERFORMANCE RESULTS

<u>Title Of Test</u>	<u>Test Method</u>	<u>Measured</u>	<u>Allowed</u>
Uniform Structural	ASTM E 330-97		
-Exterior		45.00 PSF	45.00 PSF
-Interior		45.00 PSF	45.00 PSF
-Permanent Set		0.0625"	0.164"

*End reaction was 750-lbs (at each end of the intermediate vertical)

Detailed extrusion and assembly drawings indicating measured wall thickness and corner construction are on file and were compared to the test sample submitted. These records will be retained at CCLI for a period of four years.



7. CONCLUSION

The test specimen, U.S Aluminum JC-462/M-411 meets the performance requirements of ASTM E 330-97 test standard. The above results were obtained by using the designated test methods and indicate compliance with the above specification. This report does not constitute certification of this product, which may only be granted by the program administrator.

Respectfully submitted,

CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL*


JEFFREY CRUMP
TESTING TECHNICIAN


WESLEY A. WILSON
LABORATORY MANAGER



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U.S. ALUMINUM JC-462/M-411
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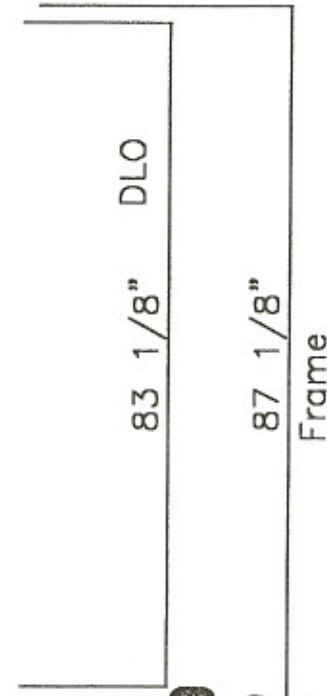
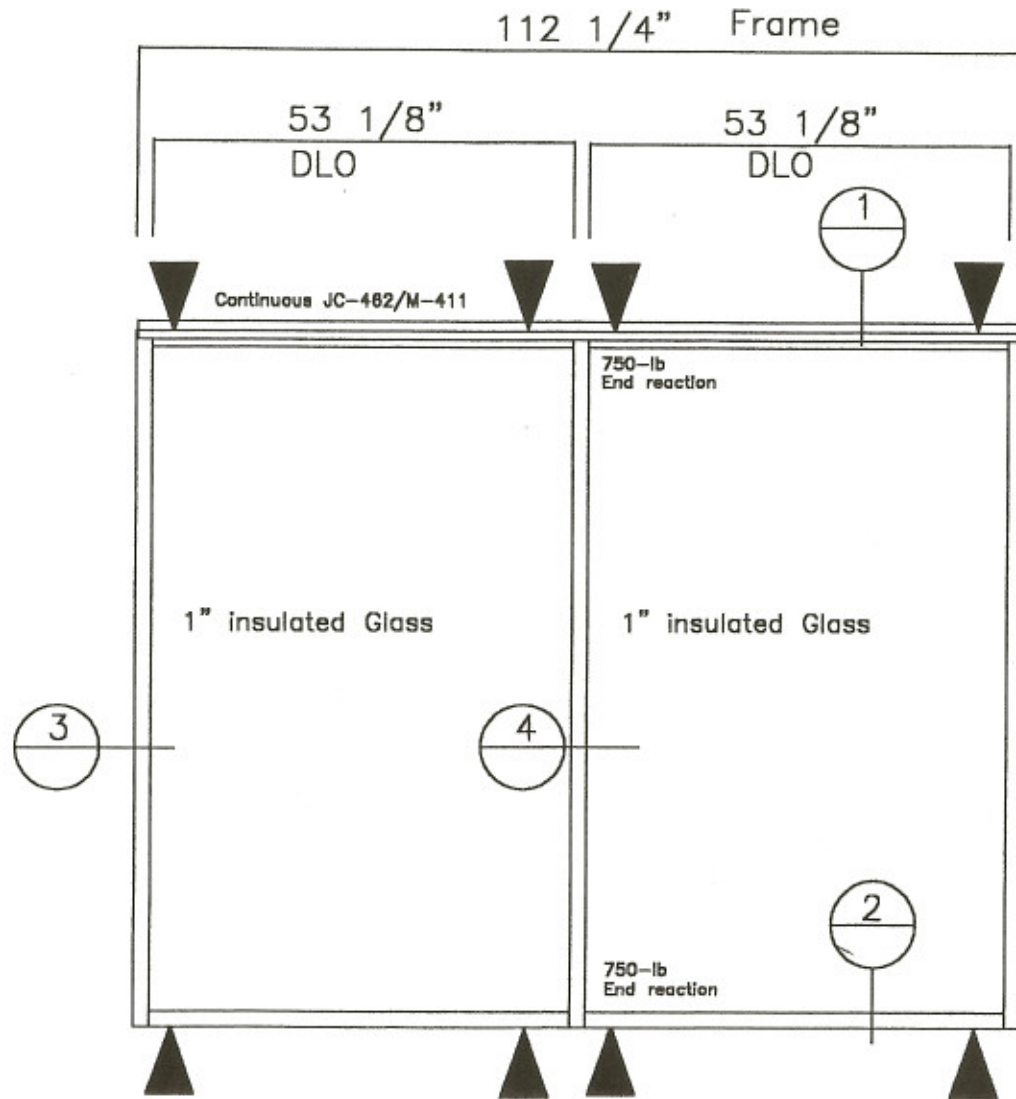
APPENDIX




APPENDIX A

PROJECT DRAWINGS

<u>DRAWING</u>	<u>DIE#</u>	<u>DATE</u>
JC-462/M-411 Mock Up Elevation		5/20/03
Jc-462/M411 Lay Out Drawing		5/20/03




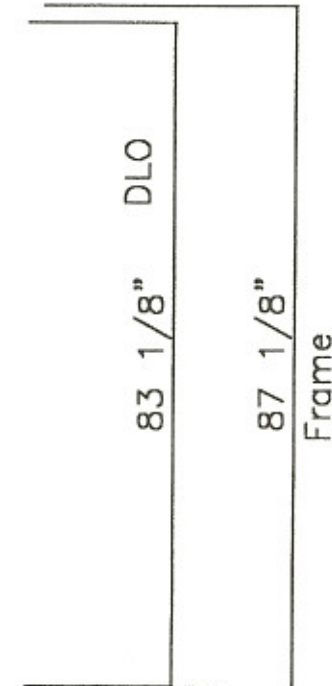
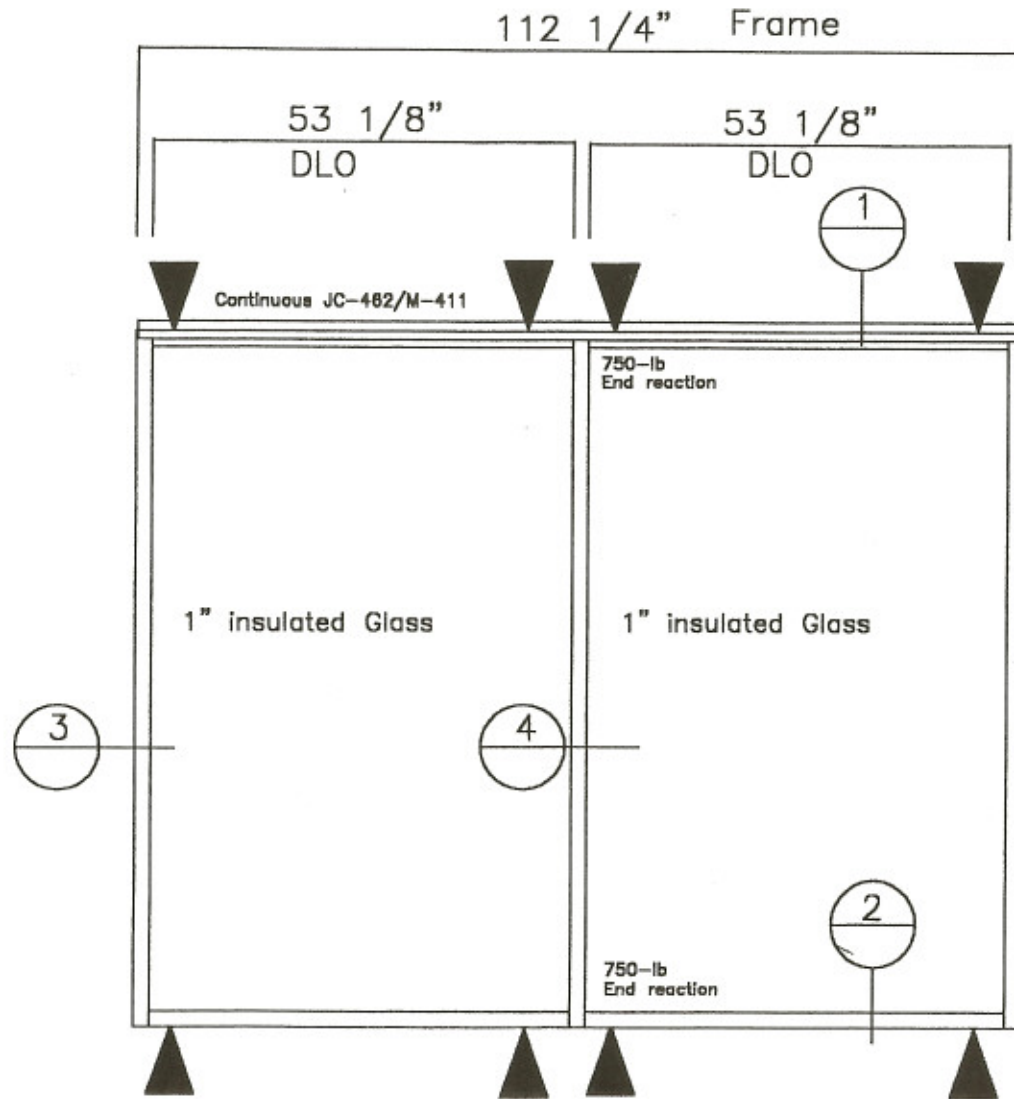

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JC-462/M-411 MOCK-UP ELEVATION

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Tested up to 45 PSF wind (ASTM-E-330)

 = Anchor location for #12 wood screws
 Adjusted screw size 5-22-03



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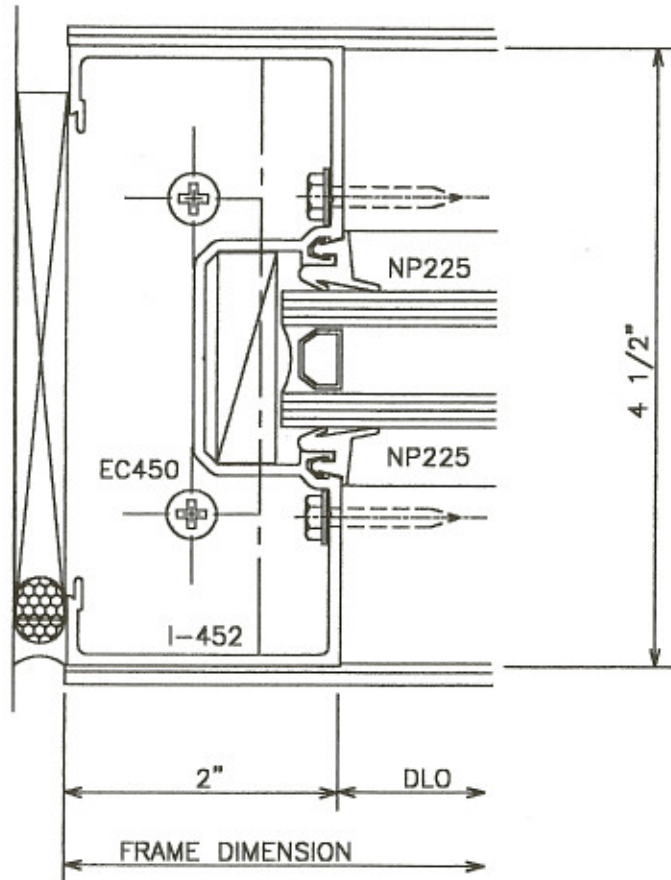
JC-462/M-411 MOCK-UP ELEVATION

Report # 03-07 Reviewed By [Signature]
 Date: 6/30/03

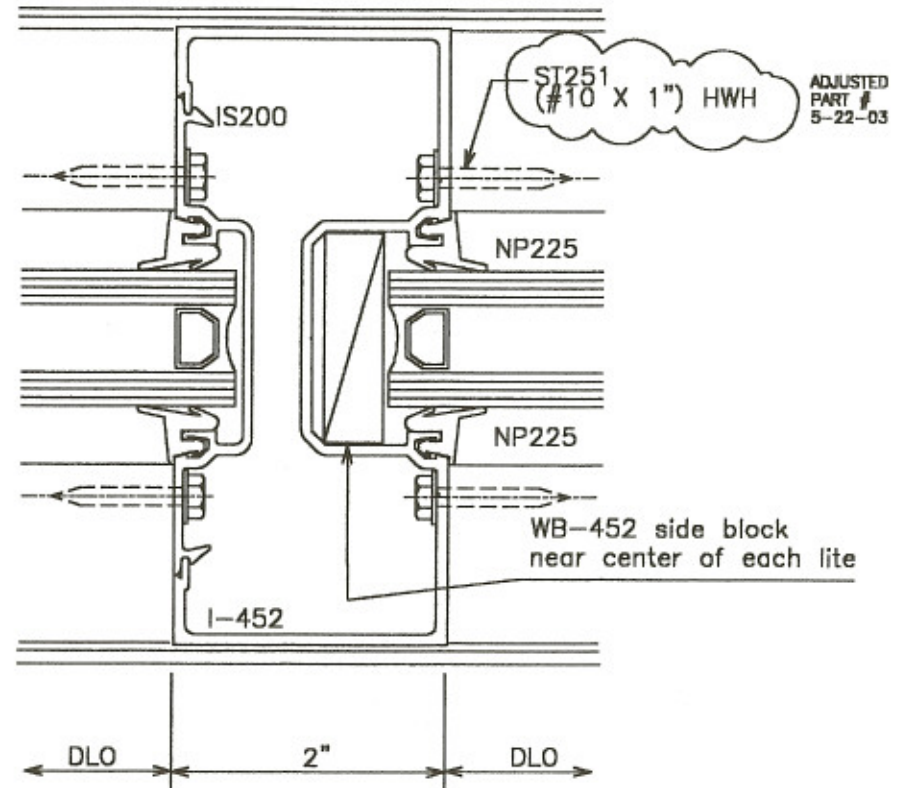
Tested up to 45 PSF wind (ASTM-E-330)

▲ = Anchor location for #12 wood screws Adjusted screw size 5-22-03

Note:
 Clamps applied to interm vert (⊕ 3rd points)
 to prevent separation of filler from I-452.
 This was not an anchor but provided
 lateral support, similar to a horizontal.



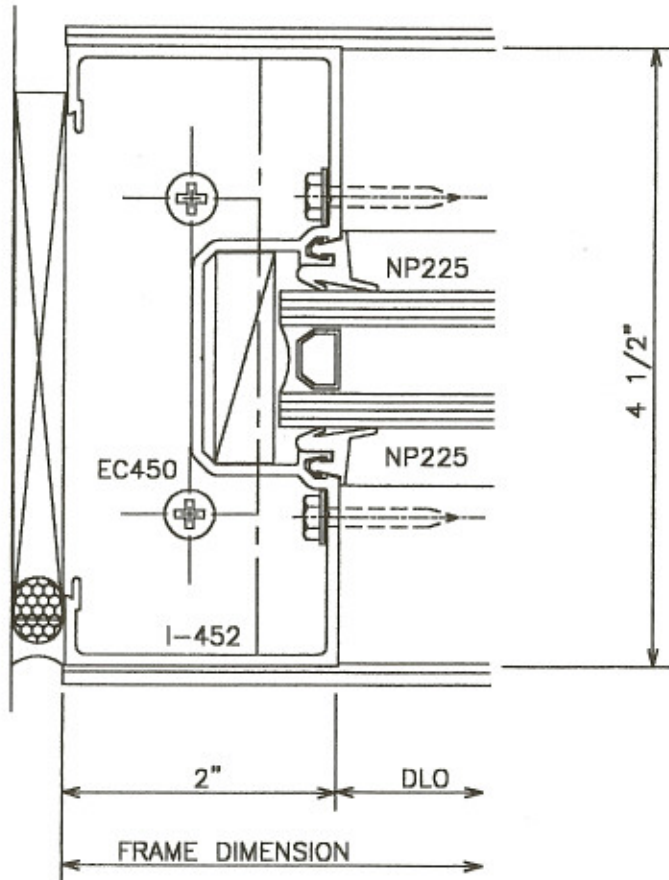
③ Jamb



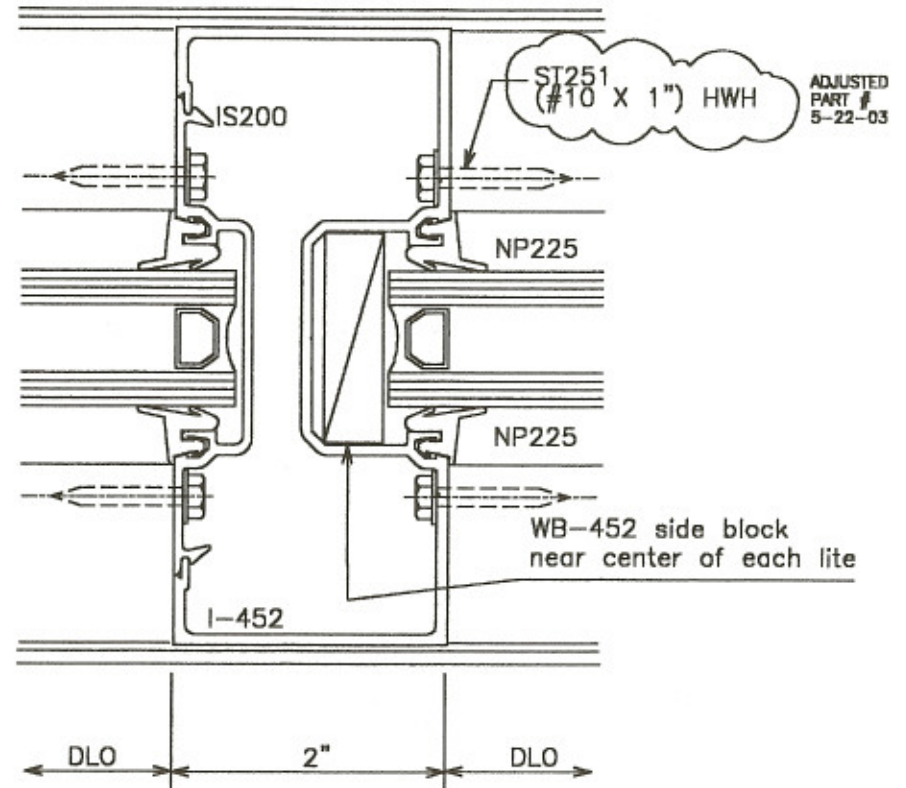
④ Int.Vert.

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Note:
 Clamps applied to interm vert (⊕ 3rd points)
 to prevent separation of filler from I-452.
 This was not an anchor but provided
 lateral support, similar to a horizontal.



③ Jamb

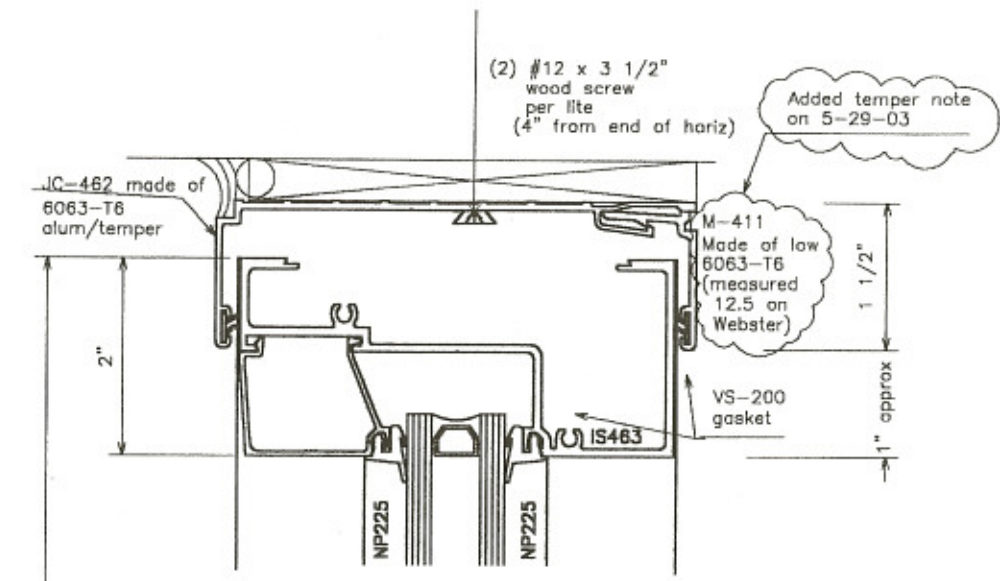


④ Int.Vert.

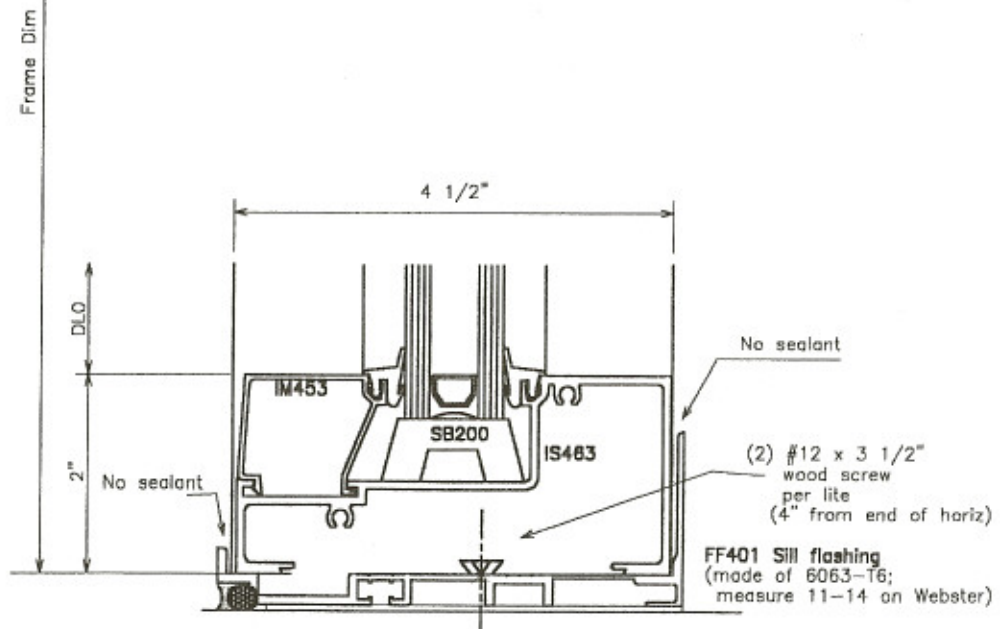


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① Head



② Sill

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