

NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI011840.01-R1
DATE: 02/05/2014
CERTIFICATION PROGRAM: Structural
COMPANY: Kudzu
CODE: 2118-1
REVISION DATE: 10/27/2014

To verify that the "Notice of Product Certification" is valid, please visit www.NAMICertification.com to assure that the product is active and currently listed. This certification represents product conformity to the applicable specification and that certification criteria has been satisfied. A NAMI approved certification label must be applied to the product to claim certification status. Please review and advise NAMI if any corrections are required to this document.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
Kudzu Millwork, Inc. 240 McCurdy Avenue South Rainsville, AL 35986	Series "1800/1840" Vinyl Single Hung Window Configuration: O/X Glazing: Insulated Glass (Annealed) Frame: W-902mm(35.50") H-1816mm(71.50") Sash: W-851mm(33.50") H-883mm(34.75")

SPECIFICATION	PRODUCT RATING
AAMA/WDMA/CSA 101/I.S.2/A440-08	Class R-PG40 902 x 1816 (36 x 72)-H Design Pressure: 1920 Pa (40 psf) Negative Design Pressure: 1920 Pa (40 psf) Water Penetration Resistance Test Pressure: 290 Pa (6.06 psf)

Product Tested By: Architectural Testing Incorporated
Report No: B5909.01-401-44/D2912.01-550-44(Gateway)/D2912.03-550-44(Gateway)
Expiration Date: **April 30, 2016**

A handwritten signature in black ink, appearing to be 'S. D.', written over a horizontal line.

Administrator's Signature: _____

**NATIONAL ACCREDITATION AND
MANAGEMENT INSTITUTE, INC.**
4794 George Washington Memorial Highway
Hayes, VA 23072
Tel: (804) 684-5124
Fax: (804) 684-5122

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COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
Kudzu Millwork, Inc. 240 McCurdy Avenue South Rainsville, AL 35986	Series "1800/1850" Vinyl Single Hung Window Configuration: O/X Glazing: Insulated Glass (Annealed) Frame: W-902mm(35.50") H-1511mm(59.50") Sash: W-849mm(33.43") H-730mm(28.75") DLO: W-786mm(30.93") H-667mm(26.25")

SPECIFICATION	PRODUCT RATING
AAMA/WDMA/CSA 101/I.S.2/A440-08	Class R-PG50 902 x 1511 (36 x 60)-H Design Pressure: 2400 Pa (50 psf) Negative Design Pressure: 2400 Pa (50 psf) Water Penetration Resistance Test Pressure: 360 Pa (7.52 psf)

Product Tested By: Architectural Testing Incorporated
Report No: B5909.01-401-44/D2912.01-550-44(Gateway)/D2912.03-550-44(Gateway)
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TEST REPORT

Report No.: B5909.01-401-44

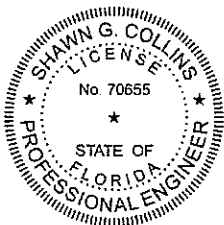
Rendered to:

ALL TEMP WINDOWS
Rainsville, Alabama

PRODUCT TYPE: PVC Single Hung Window
SERIES/MODEL: 1800/ 1840 SH & 1850 SH

SPECIFICATION: AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

Title	Summary of Results	
	Test Specimen #1	Test Specimen #2
Primary Product Designator	Class R-PG50 902 x 1511* (36 x 60*)-H	Class R-PG40 902 x 1816* (36 x 72*)-H
Design Pressure	±2400 Pa (±50.13 psf)	±1920 Pa (±40.10 psf)
Air Infiltration	0.5 L/s/m ² (0.09 cfm/ft ²)	0.4 L/s/m ² (0.07 cfm/ft ²)
Water Penetration Resistance Test Pressure	360 Pa (7.52 psf)	290 Pa (6.06 psf)



Shawn G. Collins
Digitally Signed by: Shawn G. Collins

Test Completion Date: 03/26/2012

2014.02.05 08:43:42 -05'00'

Reference must be made to Report No. B5909.01-401-44, dated 04/25/12 for complete test specimen description and detailed test results. Reference Architectural Testing, Inc. Report No. D2912.01-550-44 (Quanex) dated 12/20/13 or Report No. D2912.03-550-44 (All Temp Windows) dated 01/08/14 for complete *Gateway* test specimen description and test results.

0.0 Report Issued To: All Temp Windows
240 McCurdy Avenue. South
Rainsville, Alabama 35986

1.0 Test Laboratory: Architectural Testing, Inc.
2250 Massaro Boulevard
Tampa, Florida 33619
813-628-4300

2.0 Project Summary:

2.1 Product Type: PVC Single Hung Window

2.2 Series/Model: 1800/1840 SH &1850 SH

2.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimens tested successfully met the performance requirements for the following ratings: Test Specimen #1: **Class R-PG50 902 x 1511* (36 x 60*)-H**; Test Specimen #2: **Class R-PG40 902 x 1816* (36 x 72*)-H**. Reference Architectural Testing, Inc. Report No. D2912.550-44, dated 12/18/13 for complete *Gateway* test specimen description and test results.

General Note: An asterisk () next to the size designation indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.*

2.4 Test Dates: 02/13/2012 - 03/26/2012

2.5 Test Record Retention End Date: All test records for this report will be retained until April 25, 2016.

2.6 Test Location: Architectural Testing, Inc. test facility in Tampa, Florida.

2.7 Test Sample Source: The test specimens were provided by the client. Representative samples of the test specimens will be retained by Architectural Testing for a minimum of four years from the test completion date.

2.8 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimens reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix C. Any deviations are documented herein or on the drawings.

2.9 List of Official Observers:

<u>Name</u>	<u>Company</u>
Mike Rentz	All Temp Windows
Jeff Starbird	All Temp Windows
Chris Smart	All Temp Windows
John McClane	Architectural Testing, Inc.
Scott Parker	Architectural Testing, Inc.
Shawn G. Collins, P.E.	Architectural Testing, Inc.

3.0 Test Specification(s):

AAMA/WDMA/CSA 101/1.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

4.0 Test Specimen Description:

4.1 Product Sizes:

Test Specimen #1: 1800/1850 SH

Overall Area: 1.4 m ² (14.7 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	902	35-1/2	1511	59-1/2
Interior sash	849	33-7/16	730	28-3/4
Screen	811	31-15/16	714	28-1/8

Test Specimen #2: 1800/1840 SH

Overall Area: 1.6 m ² (17.6 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	902	35-1/2	1816	71-1/2
Interior sash	851	33-1/2	883	34-3/4
Screen	811	31-15/16	870	34-1/4

4.0 Test Specimen Description: (Continued)

The following descriptions apply to all specimens.

4.2 Frame Construction:

Frame Member	Material	Description
Sill	Extruded PVC	Drawing #10481; pocketed sill.
Head/ jambs	Extruded PVC	Drawing #8940
Meeting rail	Extruded PVC	Drawing #7615

	Joinery Type	Detail
Sill, head and jambs corners	Thermally welded	Mitered, coped and butted.
Meeting rail	Mechanically fastened and sealed with silicone.	Secured with two #8 x 2" flat head screws at each end.

4.3 Sash Construction:

Sash Member	Material	Description
Lock rail	Extruded PVC	Drawing #7106
Bottom rail	Extruded PVC	Drawing #7110
Stiles	Extruded PVC	Drawing #7111
Glazing bead	Extruded PVC	Drawing #6177

	Joinery Type	Detail
All corners	Thermally welded	Mitered and butted.

4.4 Weatherstripping:

Description	Quantity	Location
4.7mm (0.187") backed by 7.1mm (0.280") high polypile with center fin.	1 each	Interlock at sash lock rail, interior side of sill riser, interior side and lateral side of stiles.

4.0 Test Specimen Description: (Continued)

4.5 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimens can be made.*

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
19.05mm (3/4") IG	Reinforced butyl	2.3mm (3/32") annealed	2.3mm (3/32") annealed	Interior glazed onto double-sided foam tape and secured with snap-in glazing beads. (Lamatek-4Z400-00014)

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
Fixed lite	1	786 x 667	30-15/16 x 26-1/4	12.7mm (1/2")

4.6 Drainage:

Drainage Method	Size	Quantity	Location
Weep slot	22.2mm x 3.2mm (7/8" x 1/8")	1 each	Sill frame; (3") from each corner on the face of lower hollow and exterior vertical leg of sash pocket.
Weep notch	9.5mm x 3.2mm (3/8" x 1/8")	1 each	Sill frame; vertical screen track stops, at corners.

4.7 Hardware:

Description	Quantity	Location
Vinyl tilt latch (Truth-46.20.42.001/002)	2	Sash; top rail ends.
Metal sweep lock (Vision-3176)	2	177.8mm (7") from top rail ends.
Pivot bar (Amesbury BSI-23410)	2	Sash; bottom rail ends.
Block and tackle balance assembly (Amesbury BSI-Series 841) [Specimen #1- 26C and Specimen #2- 32B]	2	One per jamb.

4.0 Test Specimen Description: (Continued)

4.8 Reinforcement:

Drawing Number	Location	Material
ATW-146	Meeting rail	Aluminum 6063-T5
ATW-145	Sash; top rail	Aluminum 6063-T5
ST-1426B	Sash; stiles	0.068 galvanized steel

4.9 Screen Construction:

Frame Material	Corner Construction	Mesh Type	Mesh Attachment Method
Roll-formed aluminum	Vinyl keyed	Fiberglass	Flexible wraparound vinyl spline.

5.0 Installation:

The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the window was sealed with silicone.

Location	Anchor Description	Anchor Location
Perimeter nail fin	#8 x 51mm (2") flat head screws	51mm (2") from each corner and 102mm (4") on center.

6.0 Test Results: The temperature during testing was 24°C (76°F). The results are tabulated as follows:

Test Specimen #1: 1800/1850 SH

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 67 N (15 lbf) Maintain motion: 89 N (20 lbf) Locks: 11.1 N (2.5 lbf)	Report Only 155 N (35 lbf) max. 100 N (25 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.5 L/s/m ² (0.09 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	1
Water Penetration, per ASTM E 547 at 360 Pa (7.52 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 taken at meeting rail +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	10.2 mm (0.40") 9.4 mm (0.37")	Report Only	3, 4, 5
Uniform Load Deflection, per ASTM E 330 taken at sash stile +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	7.1 mm (0.28") 3.1 mm (0.12")	Report Only	3, 4, 5
Uniform Load Structural, per ASTM E 330 taken at meeting rail +3600 Pa (+75.19 psf) -3600 Pa (-75.19 psf)	0.5 mm (0.02") 1.0 mm (0.04")	3.0 mm (0.12") max. 3.0 mm (0.12") max.	4, 5
Uniform Load Structural, per ASTM E 330 taken at sash stile +3600 Pa (+75.19 psf) -3600 Pa (-75.19 psf)	0.5 mm (0.02") 0.3 mm (0.01")	2.8 mm (0.11") max. 2.8 mm (0.11") max.	4, 5

6.0 Test Results: (Continued)

Test Specimen #2: 1800/1840 SH

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 87 N (19.5 lbf) Maintain motion: 142 N (32 lbf) Locks: 11 N (2.5 lbf)	Report Only 155 N (35 lbf) max. 100 N (25 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.4 L/s/m ² (0.07 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	1
Water Penetration, per ASTM E 547 at 290 Pa (6.06 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 taken at meeting rail +1920 Pa (+40.19 psf) -1920 Pa (-40.19 psf)	10.2 mm (0.40") 8.9 mm (0.35")	Report Only	3, 4, 5
Uniform Load Deflection, per ASTM E 330 taken at sash stiles +1920 Pa (+40.19 psf) -1920 Pa (-40.19 psf)	11.4 mm (0.45") 2.3 mm (0.09")	Report Only	3, 4, 5
Uniform Load Structural, per ASTM E 330 taken at meeting rail +2880 Pa (+60.15 psf) -2880 Pa (-60.15 psf)	0.3 mm (0.01") <0.3 mm (<0.01")	3.1 mm (0.12") max. 3.1 mm (0.12") max.	4, 5
Uniform Load Structural, per ASTM E 330 taken at sash stiles +2880 Pa (+60.15 psf) -2880 Pa (-60.15 psf)	2.3 mm (0.09") <0.3 mm (<0.01")	3.3 mm (0.13") max. 3.3 mm (0.13") max.	4, 5

6.0 Test Results: (Continued)

Note 1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

Note 2: With and without insect screen.

Note 3: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

Note 4: Loads were held for 10 seconds.

Note 5: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.



Digitally Signed by: Scott Parker

Scott Parker
Technician



Digitally Signed by: Shawn G. Collins

Shawn G. Collins, P.E.
Manager-Regional Operations

SP:coc

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Alteration Addendum (1)

Appendix-B: Photograph (1)

Appendix-C: Drawings (15)

This report produced from controlled document template ATI 00438, issued 01/31/12

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
1	04/26/12	Cover, 3-9	Added sentence regarding reference must be made to the full report for complete test specimen description and detailed test results. Corrected report date in header on several pages.
2	10/04/12	5	Corrected glazing thickness conversion to 3/32" Corrected report date in header on several pages.
3	12/18/13	Cover, 1	Updated <i>Gateway</i> references to report# D2912.01-550-44, dated 12/20/13.
4	02/03/14	Cover, 1	Updated <i>Gateway</i> references to report# D2912.03-550-44, dated 01/08/14.

Appendix A

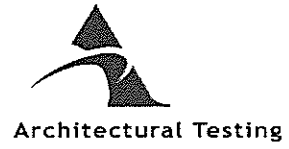
Alteration Addendum

- Alteration #1:** Date - 02/14/2012
Cause for alteration - Higher product rating for down size units.
Remedial action taken - Sill frame design change.
- Alteration #2:** Date - 02/22/2012
Cause for alteration - Design cost change. (Specimen #1)
Remedial action taken - Changed from surface mount metal tilt latch to surface mount plastic tilt latch.
- Alteration #3:** Date - 02/22/2012
Cause for alteration - Glass breakage (Specimen #2)
Remedial action taken - Changed from non-reinforced stiles to reinforced stiles.
- Alteration #4:** Date - 03/09/2012
Cause for alteration - Failed permanent set at stiles. (Specimen #2)
Remedial action taken - Thicker reinforcement.
- Alteration #5:** Date - 03/26/2012
Cause for alteration - Design cost change. (Specimen #1)
Remedial action taken - Changed from surface mount plastic tilt latch to routed end plastic tilt latch.

Appendix B
Photograph



Photo No. 1
Series 1800 Single Hung Window



Test Report No.: B5909.01-401-44
Revision 3: 12/18/13
Report Date: 04/25/12

Appendix C

Drawings

ALL TEMP

1840 SH - DP40	
• Mikron - 10481	SILL
• Mikron - 8940	JAMB / HEAD
• Mikron - 7615	MEETING RAIL
• Mikron - 7106	LOCK RAIL
• Mikron - 7110	BOTTOM RAIL
• Mikron - 7111	STILE
• Mikron - 6177	GLAZING BEAD
MIKRON - 7057	SASH STOPS
Amesbury Textile - W23271NW0020	VINYL FELT
Truth - 46.20.42.002	RH TILT LATCH
Truth - 46.20.42.001	LH TILT LATCH
Vision - 3176	SWEEP LOCK
Merchants Fastener - 08DW16PBUGLECTCC	MEETING RAIL SCREWS
Merchants Fastener - 08A05POSZATWHT	LOCK SCREWS
Lamatek - 4Z400-00014	GLAZING TAPE
Frank Lowe - NEOGREEN 2RB-89-0.125-020-024	SET BLOCKS
Amesbury BSI - 23410	PIVOT PINS
Merchants Fastener - 06A03PP4H	PIVOT PIN SCREWS
Merchants Fastener - 08A04PPSZ	BALANCE SCREWS
Amesbury BSI - SERIES 841 32B SP4/2/12	BALANCES
• PROFILE - ATW-146	MEETING RAIL REINFORCEMENT
• PROFILE - ATW-145	LOCK RAIL REINFORCEMENT
• HYGRADE - ST1426B (15 GA. - 0.068")	STILE REINFORCEMENT
PPG - 2.5 MM	GLASS
TRUSEAL - DURALITE	SPACER



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# B5909.01-401-44

Date 4/2/2013 Tech SP

ALL TEMP

1850 SH - DP50

• Mikron - 10481	SILL
• Mikron - 8940	JAMB / HEAD
• Mikron - 7615	MEETING RAIL
• Mikron - 7106	LOCK RAIL
• Mikron - 7110	BOTTOM RAIL
• Mikron - 7111	STILE
• Mikron - 6177	GLAZING BEAD
MIKRON - 7057	SASH STOPS
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Vision - 3176	SWEEP LOCK
Merchants Fastener - 08DW16PBUGLECTCC	MEETING RAIL SCREWS
Merchants Fastener - 08A05POSZATWHT	LOCK SCREWS
Lamatek - 4Z400-00014	GLAZING TAPE
Frank Lowe - NEOGREEN 2RB-89-0.125-020-024	SET BLOCKS
Amesbury BSI - 23410	PIVOT PINS
Merchants Fastener - 06A03PP4H	PIVOT PIN SCREWS
Merchants Fastener - 08A04PPSZ	BALANCE SCREWS
Amesbury BSI - SERIES 841 <i>26C</i>	<i>SP/4/2/12</i> BALANCES
• PROFILE - ATW-146	METTING RAIL REINFORCEMENT
• PROFILE - ATW-145	LOCK RAIL REINFORCEMENT
• HYGRADE - ST1426B (15 GA. - 0.068")	STILE REINFORCEMENT
PPG - 2.5 MM	GLASS
TRUSEAL - DURALITE	SPACER

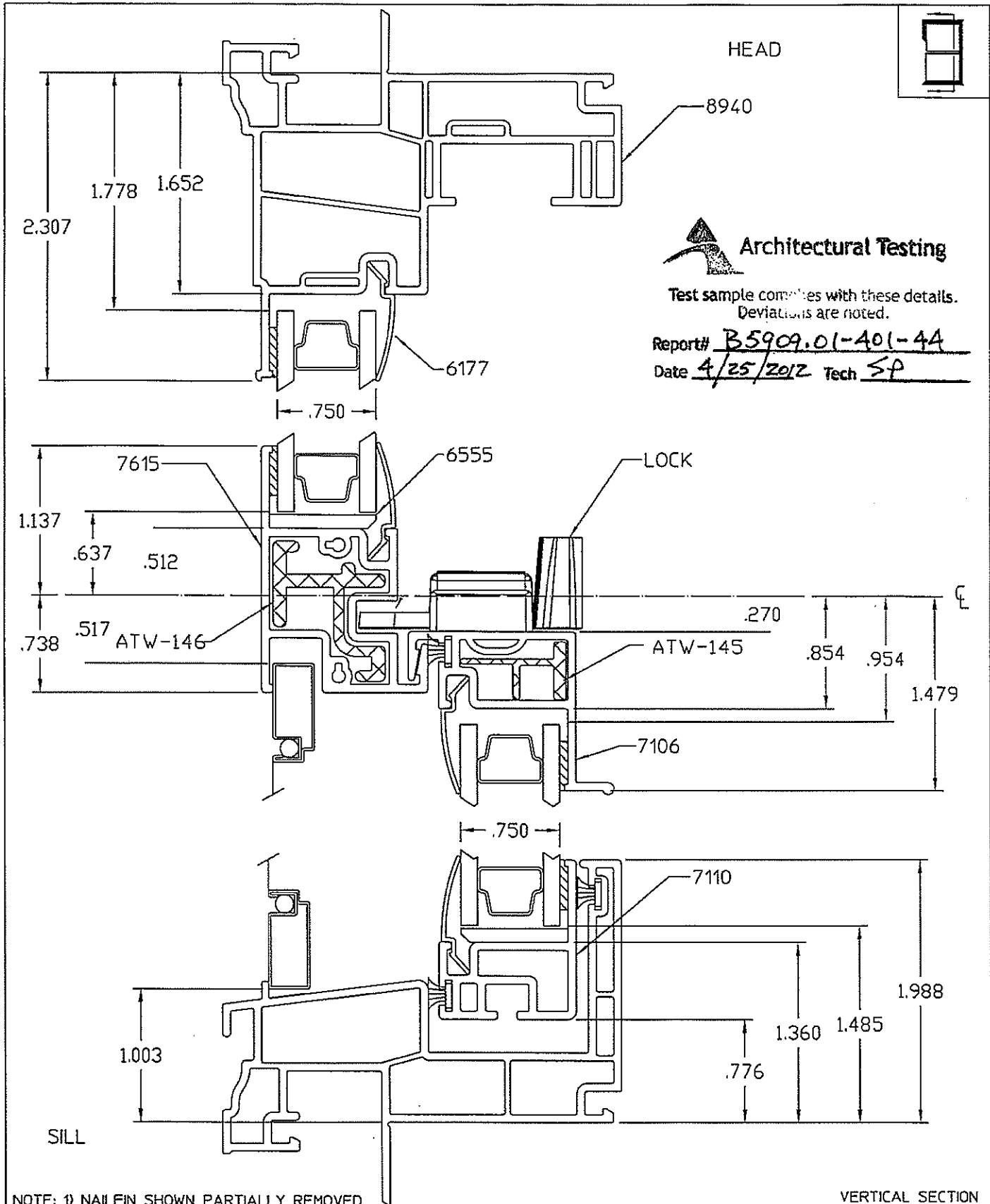


Architectural Testing

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Deviations are noted.


Report# B5909.01-401-44

Date 4/2/2012 Tech SP



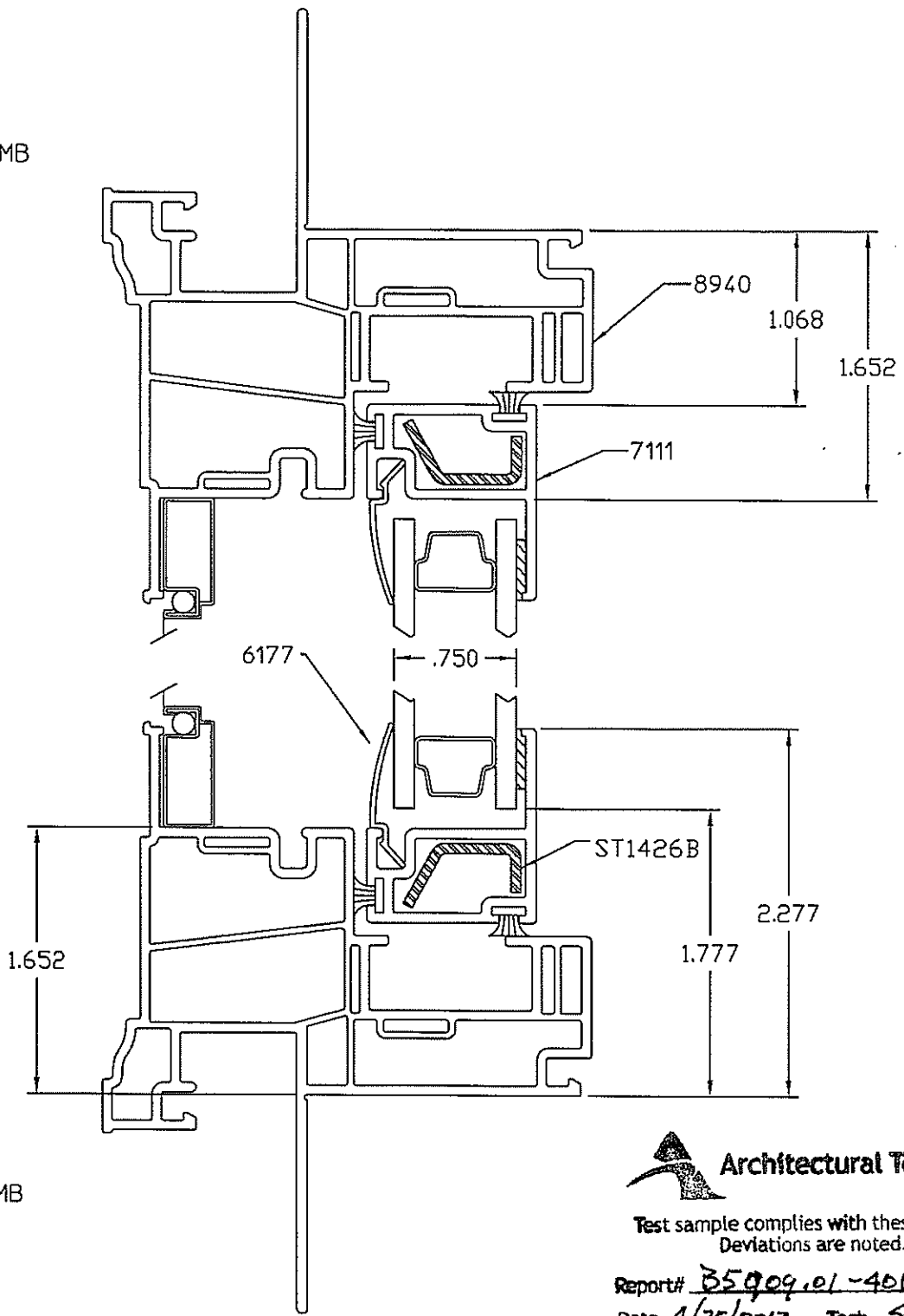
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VERTICAL SECTION

 <p>MIKRON Quality Extruded Products</p>	<p>SSTSH - DP50 1800 SERIES DETAIL DRAWING</p>	<p>This document contains confidential and proprietary information. Do not copy or disclose without consent of Mikron Ind. Inc. © 2011 Mikron Ind. Inc. All rights reserved.</p>		<p>NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED</p>	
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		SCALE:	1:1	DESIGNED BY:	TTW
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DWG. NAME:		180223.2.2			



JAMB



JAMB




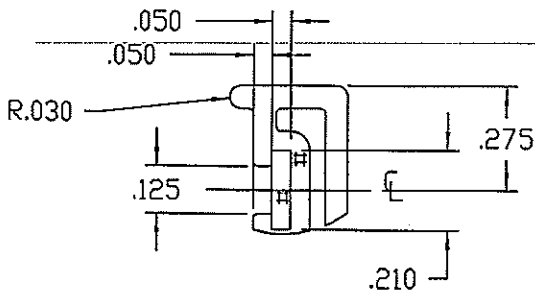
Architectural Testing

Test sample complies with these details.
Deviations are noted.

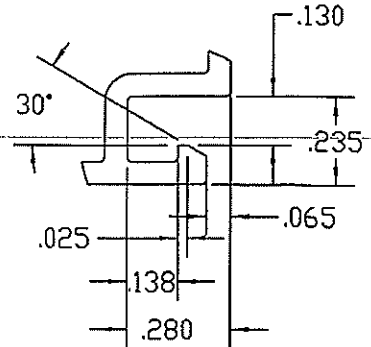
Report# B5009.01-401-44
Date 4/25/2012 Tech SP

HORIZONTAL SECTION - VENT

 Quality Extruded Products	SSSH - DP50 1800 SERIES DETAIL DRAWING	<small>This document contains confidential and proprietary information. Do not copy or disclose without consent of Mikron Ind. Inc. ©2011 Mikron Ind. Inc. All rights reserved.</small>		<small>NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED</small>	
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Detail A
Scale 2:1



Detail B
Scale 2:1

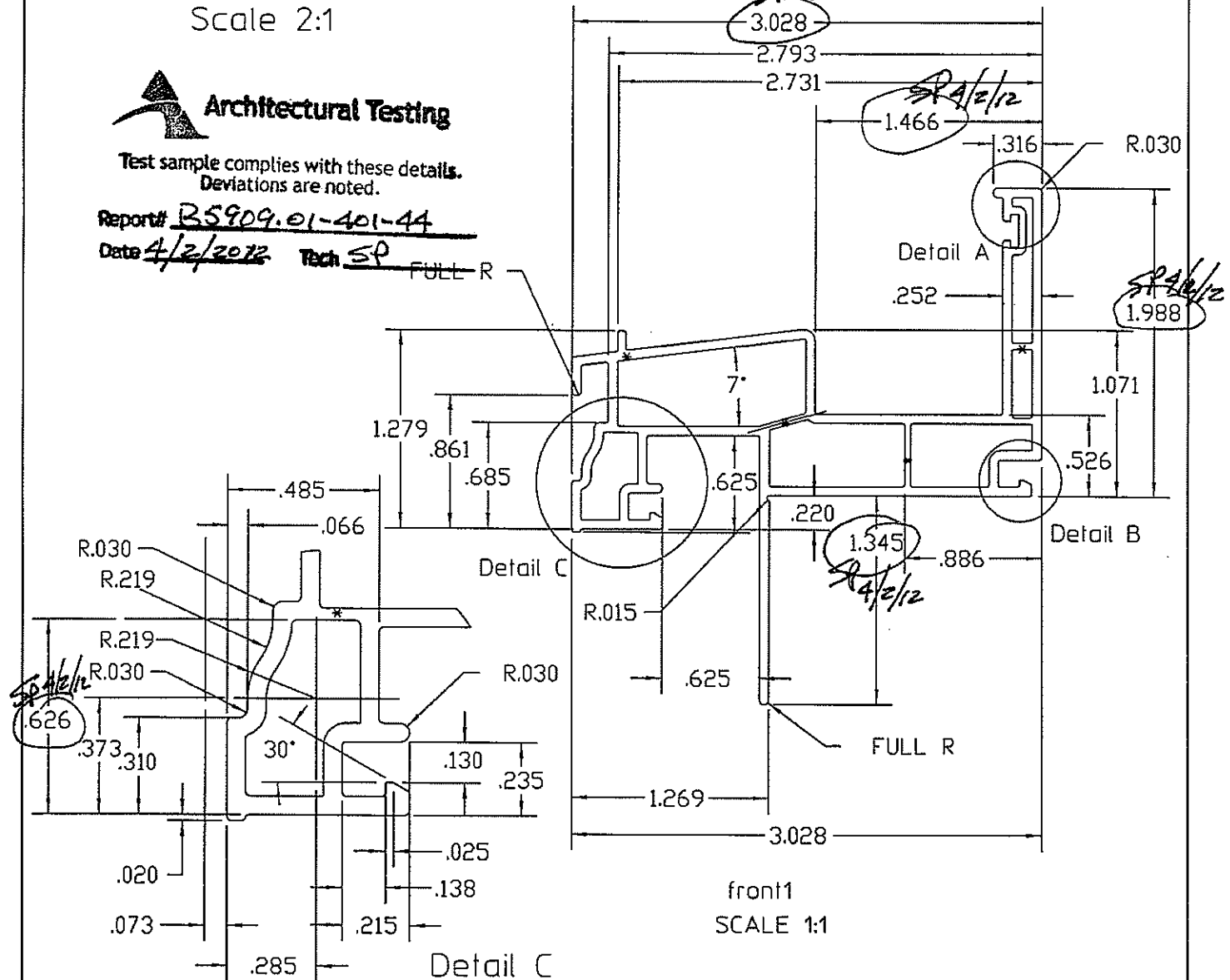


Test sample complies with these details.
Deviations are noted.

Report# B5909.01-401-44

Date 4/2/2012 Tech SP

FULL R



front1
SCALE 1:1

Detail C
Scale 2:1

NOTES: 1. * = .040 WALL THICKNESS
2. ** = .050 WALL THICKNESS

SSTSH SILL

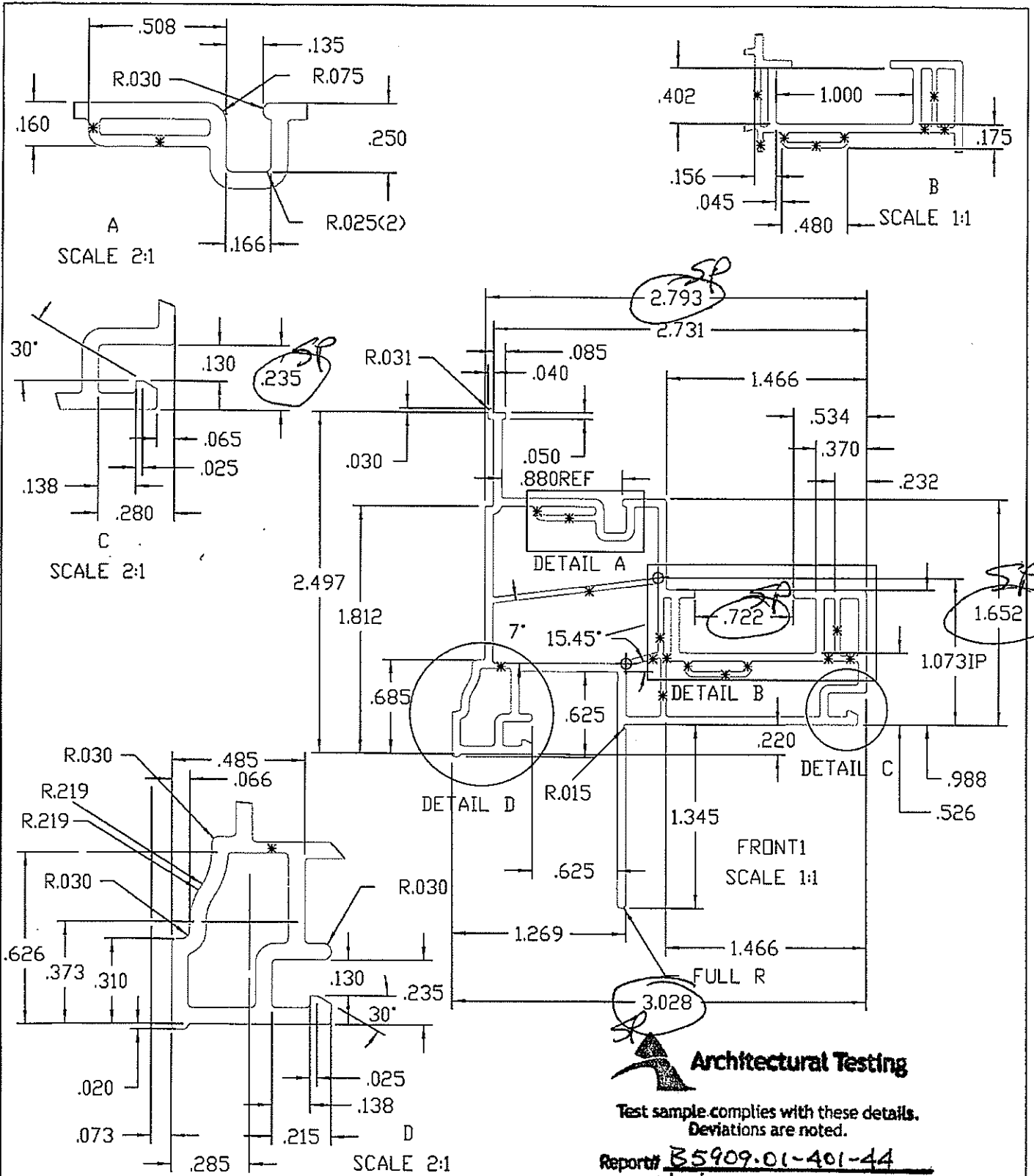
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NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED

DATE:	8/18/11	TYP. WALL:	.060
SCALE:	1:1	DESIGNED BY:	TTW
AREA:	.918	DRAFTED BY:	TTW
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DWG. NAME:			10481

MIKRON
Quality Extruded Products

DIE DRAWING



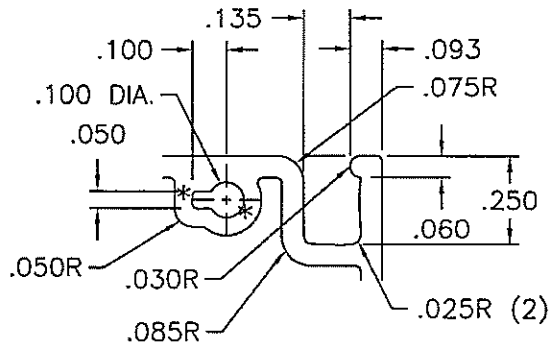
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 2. * = .040 WALL THICKNESS
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Architectural Testing

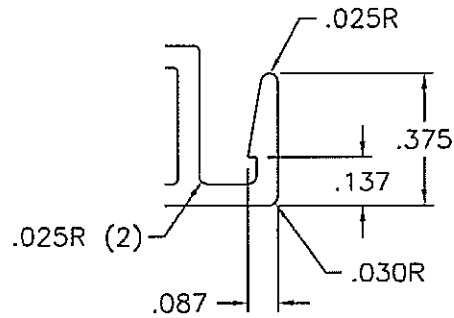
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Report# B5909.01-401-44
 Date 4/2/2012 Tech SP

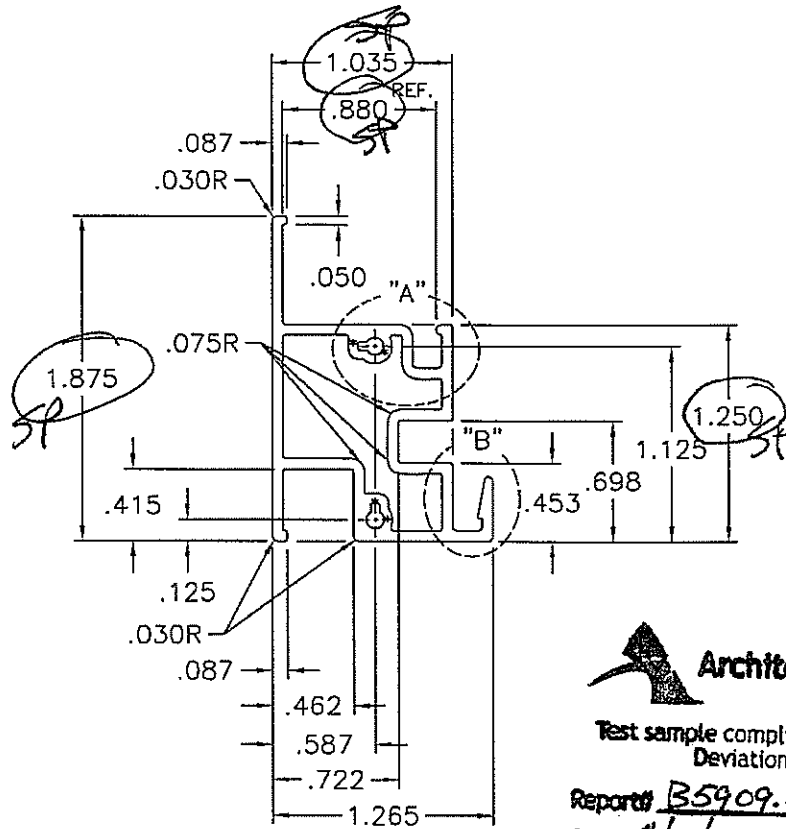
C	Added Bat Pocket Walls Area/WT/FT were 1.029/.648 1/23/09 TTW								TSH FRAME
B	Added Exd Mtg Rail Nub Area/WT/FT was 1.027/.647 1/16/04 TTW	This document contains confidential and proprietary information. Do not copy or disclose without consent of Mikron Ind. Inc. ©2009 Mikron Ind. Inc. All rights reserved.	NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED	DATE:	7/11/03	TYP. WALL:	.060		
A	Added Non Fin part # 9192 Note 1/9/04 TTW			SCALE:	1:1	DESIGNED BY:	TTW		
MIKRON Quality Extruded Products		DIE DRAWING		AREA:	1.047	DRAFTED BY:	TTW		
				WT./FT.:	.660	FILE NAME:	8940		
				DWG. NAME:			8940		



DETAIL "A"
SCALE: 2=1



DETAIL "B"
SCALE: 2=1



Test sample complies with these details.
Deviations are noted.

Report# B5909.01-401-44
Date 4/2/2012 Tech SP

NOTE: * = .050 WALL

FIXED INTERLOCK

MIKRON IND. INC.

PART NO.: 7615

DATE: 8/20/97

TYP. WALL: .062

DRAFTED BY: J.F.

DWG. NO.: 7615

NOTE: .015 TYPICAL CORNER RADIUS
UNLESS OTHERWISE SPECIFIED

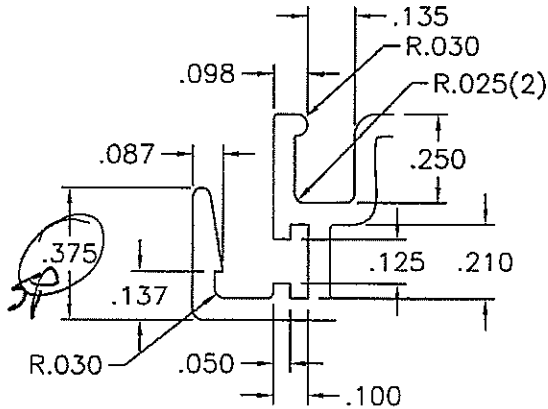
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INDUSTRIES, INC. ©1997 MIKRON INDUSTRIES,
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DIE DRAWING

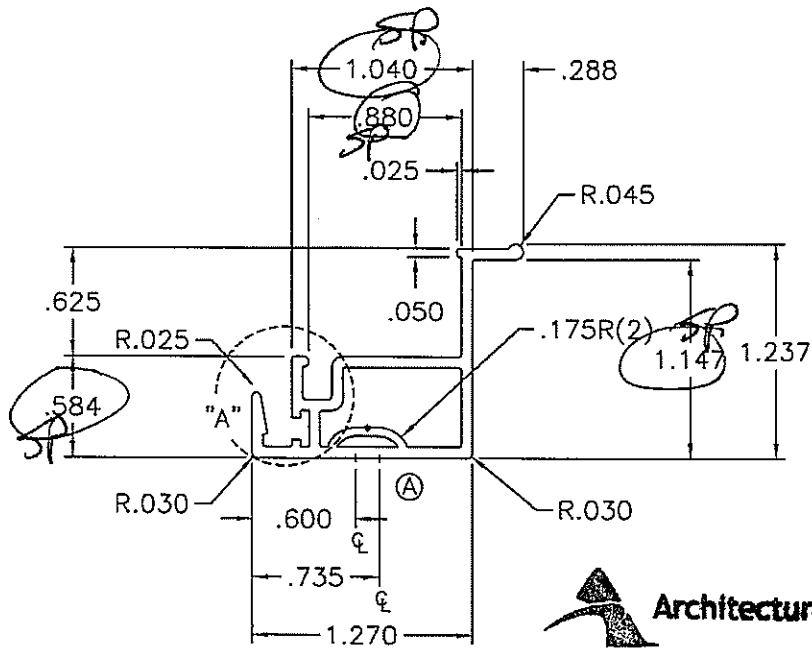
SCALE: 1=1

AREA: .465

WT./FT.: .293



DETAIL "A"
SCALE: 2=1



Test sample complies with these details.
Deviations are noted.

Report# B5909.01-401-44
Date 4/2/2012 Tech SP

NOTE: * = .050 WALL
PART WITH O.A. DIM OF 1.285 = 7146

VENT INTERLOCK

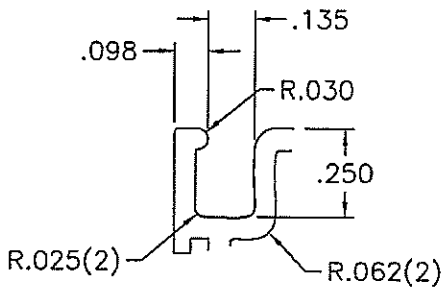
A	REV. SCREW BOSS 1/15/95 JF
NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED	
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MIKRON IND. INC.

DIE DRAWING

PART NO.: 7106
DATE: 11/29/94
TYP. WALL: .062
DRAFTED BY: TAO
DWG. NO.: 7106

SCALE: 1=1
AREA: .324
WT.\FT.: .204



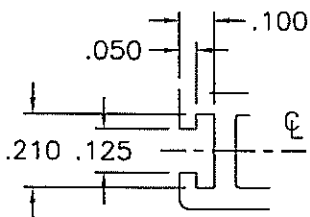
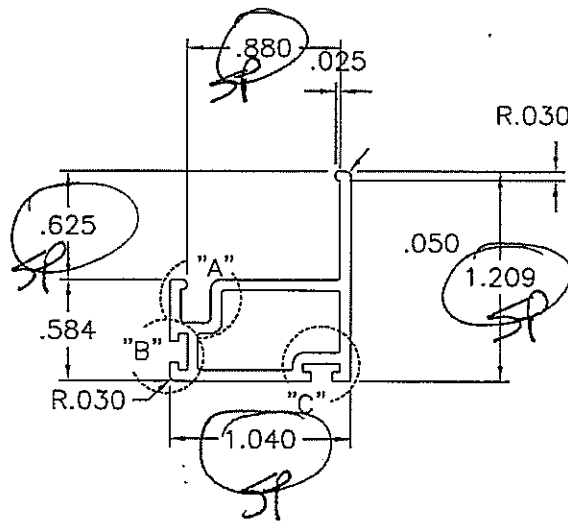
DETAIL "A"
SCALE: 2=1



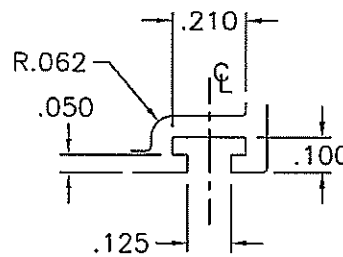
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# BS909.01-401-44
Date 4/2/2012 Tech SP



DETAIL "B"
SCALE: 2=1



DETAIL "C"
SCALE: 2=1

TILT SINGLE HUNG
VENT BAR

PART WITH O.A. DIMS OF 1.035 X 1.215 = 7150

MIKRON IND. INC.

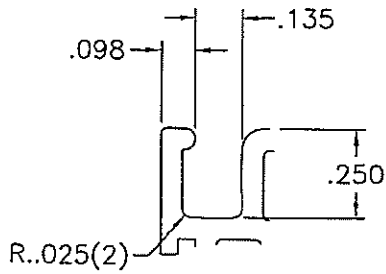
PART NO.: 7111
DATE: 11/30/94

NOTE: .015 TYPICAL CORNER RADIUS
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DIE DRAWING

SCALE: 1=1
AREA: .256
WT.\FT.: .161

TYP. WALL: .062
DRAFTED BY: TAO
DWG. NO.: 7111



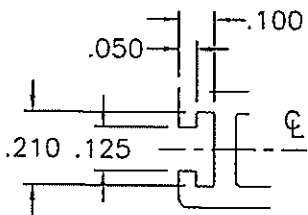
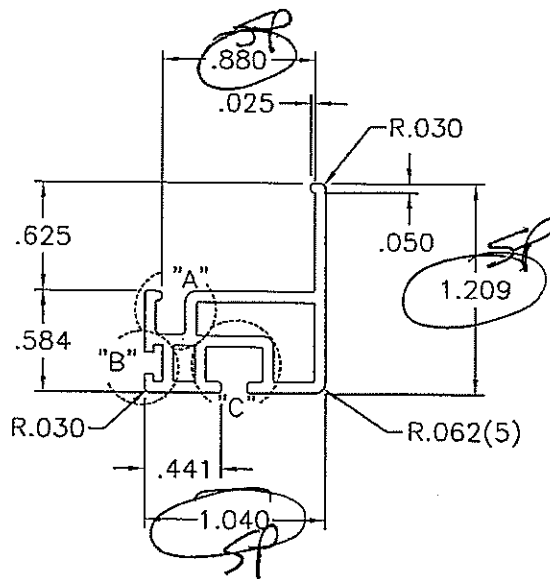
DETAIL "A"
SCALE: 2=1

 Architectural Testing

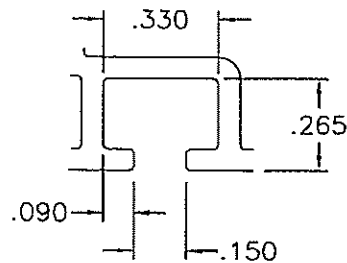
Test sample complies with these details.
Deviations are noted.

Report# B5909.01-401-44

Date 4/2/12 Tech SP



DETAIL "B"
SCALE: 2=1



DETAIL "C"
SCALE: 2=1

PART WITH O.A. DIMS OF 1.035 X 1.215 = 7149

VENT RAIL

MIKRON IND. INC.

PART NO.: 7110

DATE: 11/30/94

TYP. WALL: .062

DRAFTED BY: TAO

DWG. NO.: 7110

NOTE: .015 TYPICAL CORNER RADIUS
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DIE DRAWING

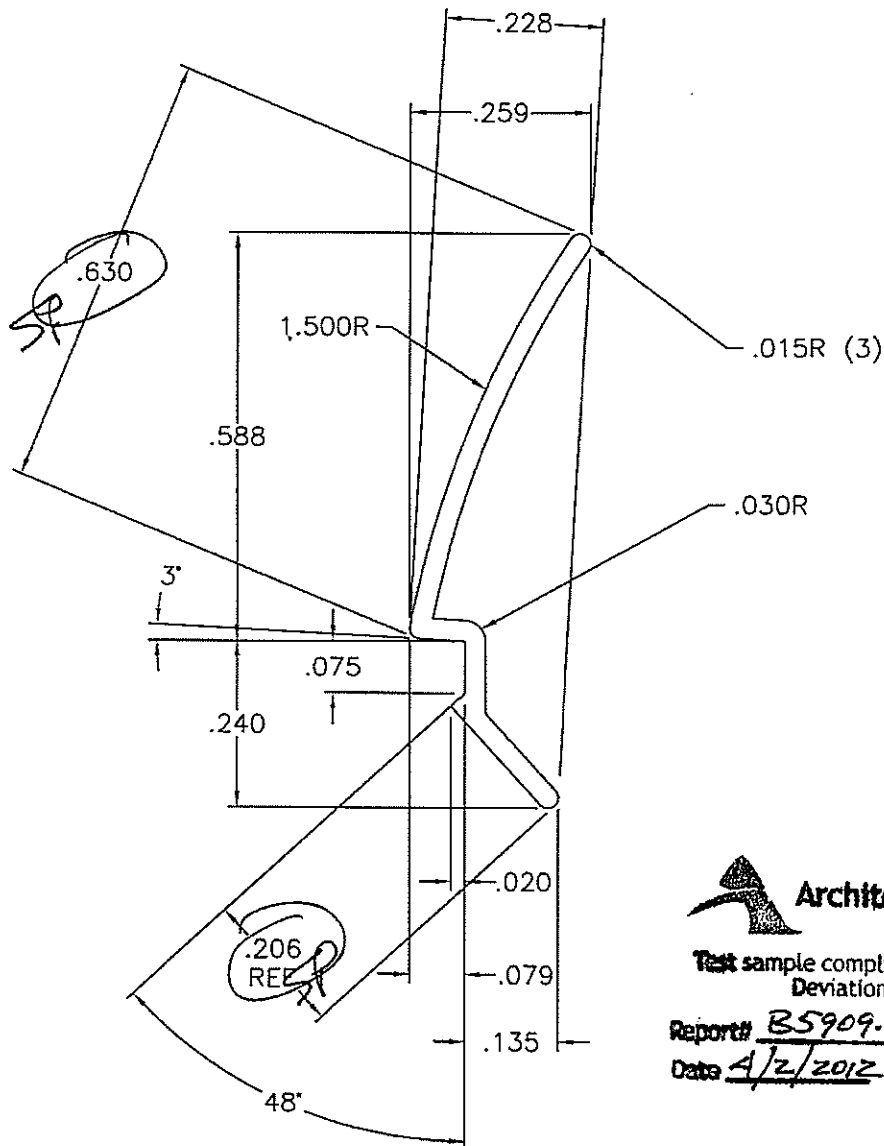
SCALE: 1=1

AREA: .289

WT.\FT.: .182



ACTUAL SIZE
SCALE: 1=1



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# B5909-01-401-44

Date 4/2/2012 Tech SP

C Revised title block/format 7/28/94 VB

NOTE: 1) LURAN VERSION OF THIS DIE = 7774

GLAZING BEAD

B Changed wall thickness 5/10/93

A Dim. changes 9/24/93

NOTE: .015 TYPICAL CORNER RADIUS
UNLESS OTHERWISE SPECIFIED

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MIKRON IND. INC.

DIE DRAWING

PART NO.: 6177

DATE: 8/25/92

TYP. WALL: .030

DRAFTED BY: MDL

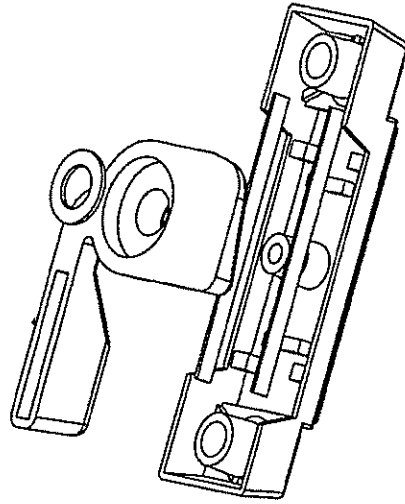
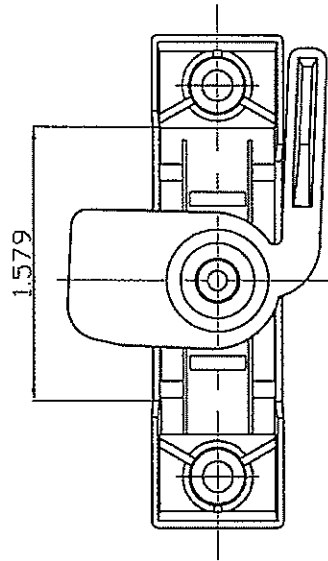
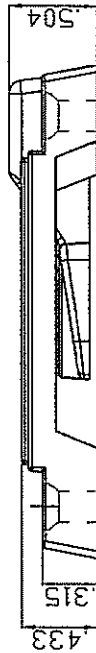
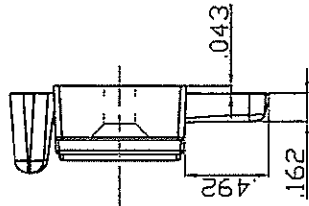
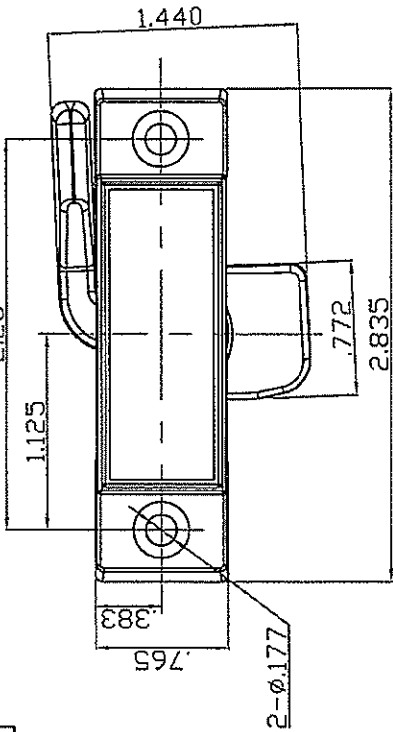
DWG. NO.: 6177

SCALE: 4=1

AREA: .030

WT./FT.: .019

00-971E

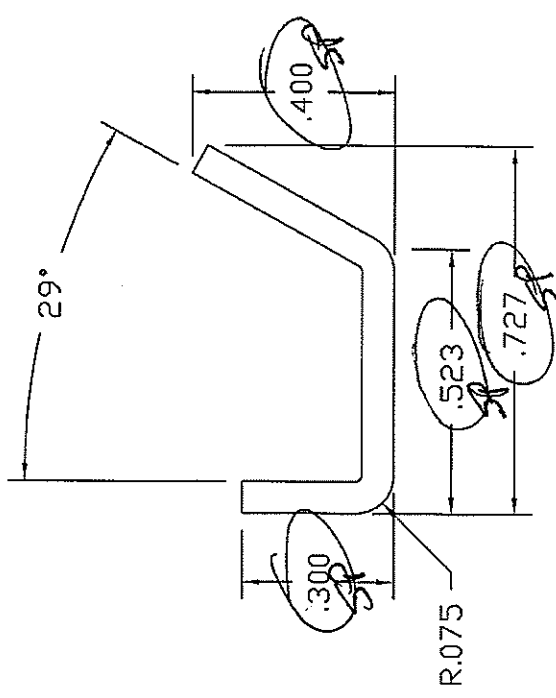


Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report# B5909.01-401-44
 Date 4/2/2012 Tech SP

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REV	MARK	CHG	DESCRIPTION	BY	DATE
1.1					
<p>1. Materialin.</p> <p>2. Unspecified Walls.....in.</p> <p>3. Unspecified Radii.....in.</p> <p>4. Tolerances:</p> <p>.xx - ± .06</p> <p>.xx - ± .03</p> <p>.xxx - ± .01</p> <p>.xxx - ± .005</p> <p>Angles ± 1/2°</p>					
VISION			TITLE:		
DESIGNER:			PART NAME: ASSEMBLY		
DRAWN BY: Ansy			DRAWING NUMBER: 3176-00		
APPROVED BY:			SCALE MATERIAL DATE		
			1:1 2011.10.12		
DIE NO.					

REVISIONS		
REV.	DESCRIPTION	DATE



Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report# B509.01-401-44
 Date 4/2/2012 Tech SP

TOLERANCE UNLESS OTHERWISE SPECIFIED DECIMAL ANGULAR	TITLE HYGRADE METAL MOULDING	
	MATERIAL .068 GALV.	DWG NO. ST-1426B
DRAWN BY RCM	SCALE 3:1	DATE 3-15-11
APPROVED BY	REV. NEW	APPROVED BY

THIS DOCUMENT IS THE PROPERTY OF
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 MOULDING MANUFACTURING CORP.

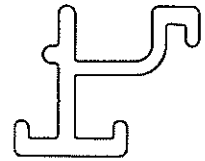


Architectural Testing

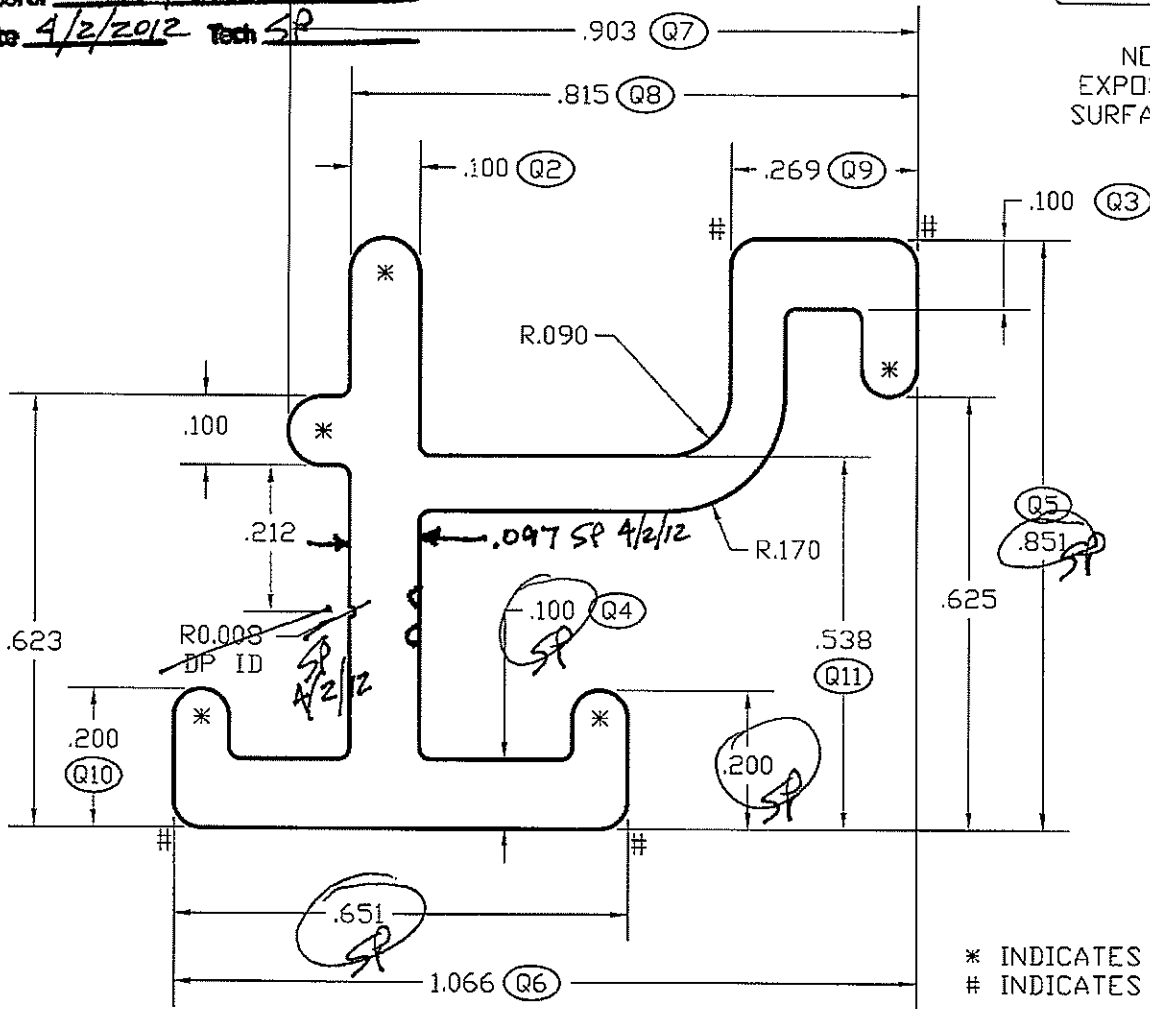
Test sample complies with these details.
Deviations are noted.

Report# B5909.01-401-44
Date 4/2/2012 Tech SP

ACTUAL
SIZE



NO
EXPOSED
SURFACES



* INDICATES FULL R
INDICATES R0.040

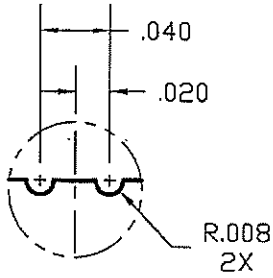
(Q1)

UNLESS OTHERWISE SPECIFIED
TYP. WALL .080
BREAK SHARP CORNERS TO .016 R.

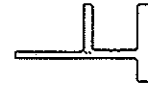
SECTION DATA		PROFILE EXTRUSION COMPANY		
ESTIMATED AREA	.251 SQ. IN.	Rome, Georgia Plant		
ESTIMATED WT./FT.	.301 LBS.			
ESTIMATED PERI.	5.459 IN.			
FACTOR	18			
CIRCUM. CIR. DIA.	.816 TO 1.316	DESCRIPTION		
		SH FRAME MTR. STIFFNER		ALUMINUM ASSOCIATION TOL- ERANCES APPLY TO ALL DI- MENSIONS UNLESS OTHERWISE NOTED
REVISIONS	A.	DWN. BY DEW	DATE: 10-10-11	CHKD. BY
	B.			ALLOY & TEMPER 6063-T5
	C.			CUSTOMER ALL TEMP WINDOWS
	D.			DWG. NO. ATW-146
APPROVED BY:		DATE:		JOB #: 08021101
				DIE NO. ATW-146

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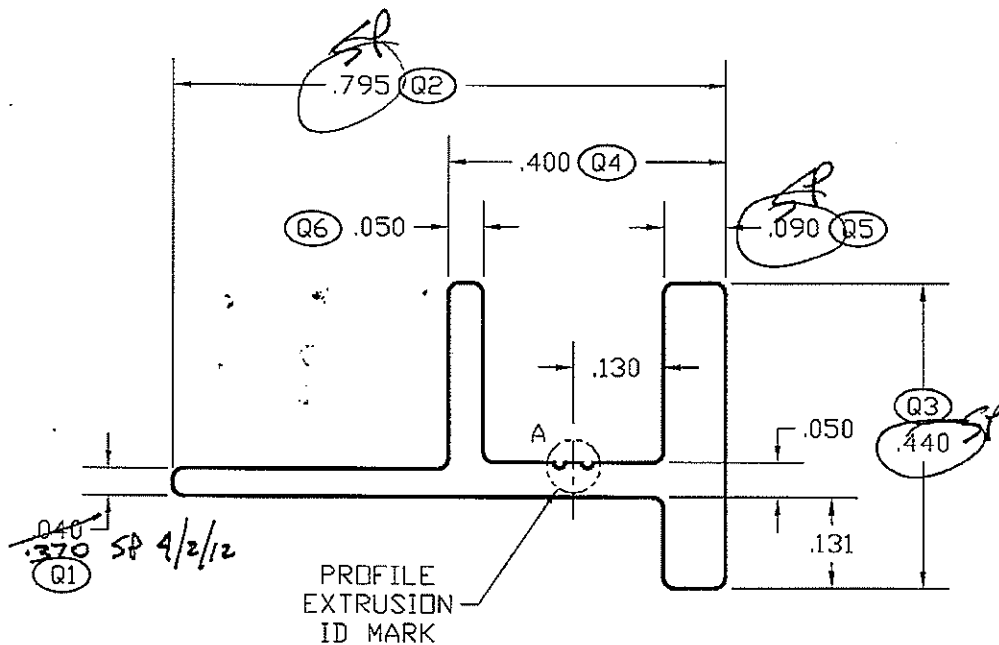
DETAIL A
SCALE 10:1



ACTUAL
SIZE



NO
EXPOSED
SURFACES



PROFILE
EXTRUSION
ID MARK



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# B5909.01-401-44
Date 4/2/2012 Tech SP

CUSTOMER DWG#: CW-3

UNLESS OTHERWISE SPECIFIED
TYP. WALL AS NOTED
BREAK SHARP CORNERS TO .016 R.

SECTION DATA			PROFILE EXTRUSION COMPANY			
ESTIMATED AREA	.083	SQ. IN.	Rome, Georgia Plant			
ESTIMATED WT./FT.	.100	LBS.				
ESTIMATED PERI.	2.924	IN.				
FACTOR	29		DESCRIPTION			
CIRCUM. CIR. DIA.	.545 TO 1.045		SH SASH STIFFNER			ALUMINUM ASSOCIATION TOL- ERANCES APPLY TO ALL DI- MENSIONS UNLESS OTHERWISE NOTED
REVISIONS						DWN. BY: DEW
A.			SOLID <input checked="" type="checkbox"/> SEMI-HOLLOW <input type="checkbox"/> HOLLOW <input type="checkbox"/>			CUSTOMER ALL TEMP WINDOWS
B.			CLASS			DWG. NO. ATW-145
C.			SCALE: 4:1			DIE NO. ATW-145
D.			APPROVED BY:			DATE:
			JOB #: 08021101			