Architectural Testing

TEST REPORT

Report No. A7802.01-501-47

Rendered to:

VEKA INC.
Fombell, Pennsylvania

PRODUCT TYPE: PVC Horizontally Sliding Window, Type XO
SERIES/MODEL: SS93WW

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

	Summary of Results	
Title	**Test Specimen #1 Vertical Reinforcement**	**Test Specimen #2 Full Reinforcement**
Primary Product Designator	Class R-PG45 1930 x 1371 (76 x 54) - HS	Class R-PG45 1930 x 1371 (76 x 54) - HS
Design Pressure	+2160 Pa (+45.11 psf)	+2160 Pa (+45.11 psf)
Negative Design Pressure	-2400 Pa (-50.13 psf)	-3120 Pa (-65.16.13 psf)
Air Infiltration	0.5 L/s/m^2 (0.09 cfm/ft^2)	N/A
Water Penetration Resistance Test Pressure	330 Pa (6.90 psf)	N/A

Test Completion Date: 02/16/2011

Reference must be made to Report No. A7797.01-501-47, dated 02/22/11 for complete test specimen description and detailed test results.

1.0 Report Issued To: Veka Inc.
100 Veka Drive
Fombell, Pennsylvania 16123-025

2.0 Test Laboratory: Architectural Testing, Inc.
1140 Lincoln Avenue
Springdale, Pennsylvania 15144
724-275-7100

3.0 Project Summary:

3.1 Product Type: PVC Horizontal Sliding Window, Type XO

3.2 Series/Model: SS93WW

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-PG45 1930 x 1371 (76 x 54) - HS**; Test Specimen #2: **Class R-PG45 1930 x 1371 (76 x 54) - HS**.

3.3 Test Dates: 02/15/2011 – 02/16/2011

3.4 Test Location: Veka Inc. test facility in Fombell, Pennsylvania. Calibration of test equipment was performed by Architectural Testing in accordance with AAMA 205-01 "In-Plant Testing Guidelines for Manufacturers and Independent Laboratories".

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

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

3.7 List of Official Observers:

Name	Company
Doug Merry	Veka Inc.
Cornell Charles	Veka Inc.
Joseph Allison	Architectural Testing, Inc.

4.0 Test Specification(s):

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

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimen #1:

Overall Area: 2.6 m^2 (28.5 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
Overall size	1930	76	1371	54
Sash size	975	38-3/8	1295	51
Screen size	930	36-5/8	1311	51-5/8

Test Specimen #2:

Overall Area: 2.6 m^2 (28.5 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
Overall size	1930	76	1371	54
Sash size	975	38-3/8	1295	51
Screen size	930	36-5/8	1311	51-5/8

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member	**Material**	**Description**
Head, sill, jambs, fixed stile	PVC	Extruded

	Joinery Type	**Detail**
All corners	Mitered	Thermally welded
Fixed rail	Square cut and coped	Fastened with four #8 x 2" truss head screws, two at each end

5.0 Test Specimen Description: (Continued)

5.3 Sash Construction:

Sash Member	Material	Description
All rails and stiles	PVC	Extruded

	Joinery Type	Detail
All corners	Mitered	Thermally welded

5.4 Weatherstripping:

Description	Quantity	Location
0.187" x 0.270" center fin pile	3 Rows	Bottom rail, jamb stile
0.187" x 0.270" center fin pile	2 Rows	Fixed meeting stile
0.187" x 0.270" center fin pile	1 Row	Frame perimeter, lock stile, top rail

5.5 Glazing:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
1" IG	Rectangular shaped steel, single sealed	1/8" annealed	1/8" annealed	The sash and fixed lite were exterior glazed. The glass was set against a double-sided adhesive tape and secured with rigid vinyl glazing beads.

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
Sash	1	876 x 1197	34-1/2 x 47-1/8	5/8"
Fixed lite	1	876 x 1273	34-1/2 x 50-1/8	5/8"

5.0 Test Specimen Description: (Continued)

5.6 Drainage:

Drainage Method	Size	Quantity	Location
Weepslot with cover	1-5/16" by 5/16"	2	Exterior sill face, one 3-1/2" in from each end.
Weepslot with open cell foam baffle	1" by 1/4"	2	Interior sill track, one at each end.
Weepslot	1" by 1/4"	2	Sill intermediate wall, one at each end

5.7 Hardware:

Description	Quantity	Location
Metal cam lock and keeper	2	Lock stile, one 8" in from each end with corresponding metal keeper on the fixed meeting stile.
Dual metal rollers with plastic housing	2	Bottom rail, one at each end

5.8 Reinforcement:

Drawing Number	Location	Material
RF SE9346 AOM	Lock stile (Specimen #1 and #2)	Extruded aluminum
RF SH9304 AOM	Fixed meeting stile (Specimen #1 and #2)	Extruded aluminum
RF SE9345 AOM	Jamb stile (Specimen #1 and #2)	Extruded aluminum
RF SE9345 AOM	Top rail, bottom rail (Specimen #2 only)	Extruded aluminum

5.9 Screen Construction:

Frame Material	Corner Construction	Mesh Type	Mesh Attachment Method
Roll-formed aluminum	Square-cut and secured with snap-in plastic corner keys	Fiber	Flexible vinyl spline

6.0 Installation:

The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/8" shim space. The exterior perimeter of the window was sealed with sealant. The sill was set onto a bed of silicone sealant.

Test Specimen #1:

Location	Anchor Description	Anchor Location
Head, sill	#8 x 2" truss head screws	5 each, evenly spaced and beginning 5" in from each end.
Jambs	#8 x 2" truss head screws	3 per jamb, located 5" in from each end and at midspan.

Test Specimen #2:

Location	Anchor Description	Anchor Location
Head, sill	#8 x 2" truss head screws	5 per head / sill, located 5" from each end and then evenly spaced. Two additional screws per head / sill located 6" from each side of midspan. (7 total)
Jambs	#8 x 2" truss head screws	3 per jamb, located 5" in from each end and at midspan.

7.0 Test Results: The temperature during testing was 20°C (68°F). The results are tabulated as follows:

Test Specimen #1:

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 89 N (20 lbf) Maintain motion: 58 N (13 lbf) Latches: N/A Locks: 22 N (5 lbf)	Report Only 90 N (20 lbf) max. 100 N (22.5 lbf) max. 100 N (22.5 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.6 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	N/A	N/A	3
Uniform Load Deflection, per ASTM E 330	N/A	N/A	3
Uniform Load Structural, per ASTM E 330	N/A	N/A	3
Forced Entry Resistance, per ASTM F 588, Type: A - Grade: 10	Pass	No entry	
Thermoplastic Corner Weld	Pass	Meets as stated	
Deglazing, per ASTM E 987 Operating direction, 320 N (72 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (52 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #1: (Continued)

Title of Test	Results	Allowed	Note
Optional Performance			
Water Penetration, per ASTM E 547 at 330 Pa (6.90 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 taken at the fixed meeting stile +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	 6.8 mm (0.27") 6.3 mm (0.25")	 Report Only	 4, 5, 6
Uniform Load Structural, per ASTM E 330 taken at the fixed meeting stile +3600 Pa (+75.19 psf) -3600 Pa (-75.19 psf)	 0.3 mm (0.01") 0.3 mm (0.01")	 4.6 mm (0.18") max. 4.6 mm (0.18") max.	 5, 6

Test Specimen #2:

Title of Test	Results	Allowed	Note
Optional Performance			
Uniform Load Deflection, per ASTM E 330 taken at the fixed meeting stile +3120 Pa (+65.16 psf) -3120 Pa (-65.16psf)	 9.05 mm (0.36") 8.5 mm (0.34")	 Report Only	 4, 5, 6
Uniform Load Structural, per ASTM E 330 taken at the fixed meeting stile +4680 Pa (+97.74 psf) -4680 Pa (-97.74 psf)	 0.5 mm (0.02") 0.5 mm (0.02")	 5.3 mm (0.21") max. 5.3 mm (0.21") max.	 5, 6

7.0 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 client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 4: 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 5: Loads were held for 10 seconds.

Note 6: 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.

The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made. 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 specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

Joseph E. Allison
Digitally Signed by: Joseph E. Allison

Joseph E. Allison
Senior Technician

Lynn George
Digitally Signed by: Lynn George

Lynn George
Director – Regional Operations

JEA:sld

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Alteration Addendum (1)
Appendix-B: Drawings (11)

Appendix A

Alteration Addendum

***Note**: No alterations were required.*

Appendix B

Drawings

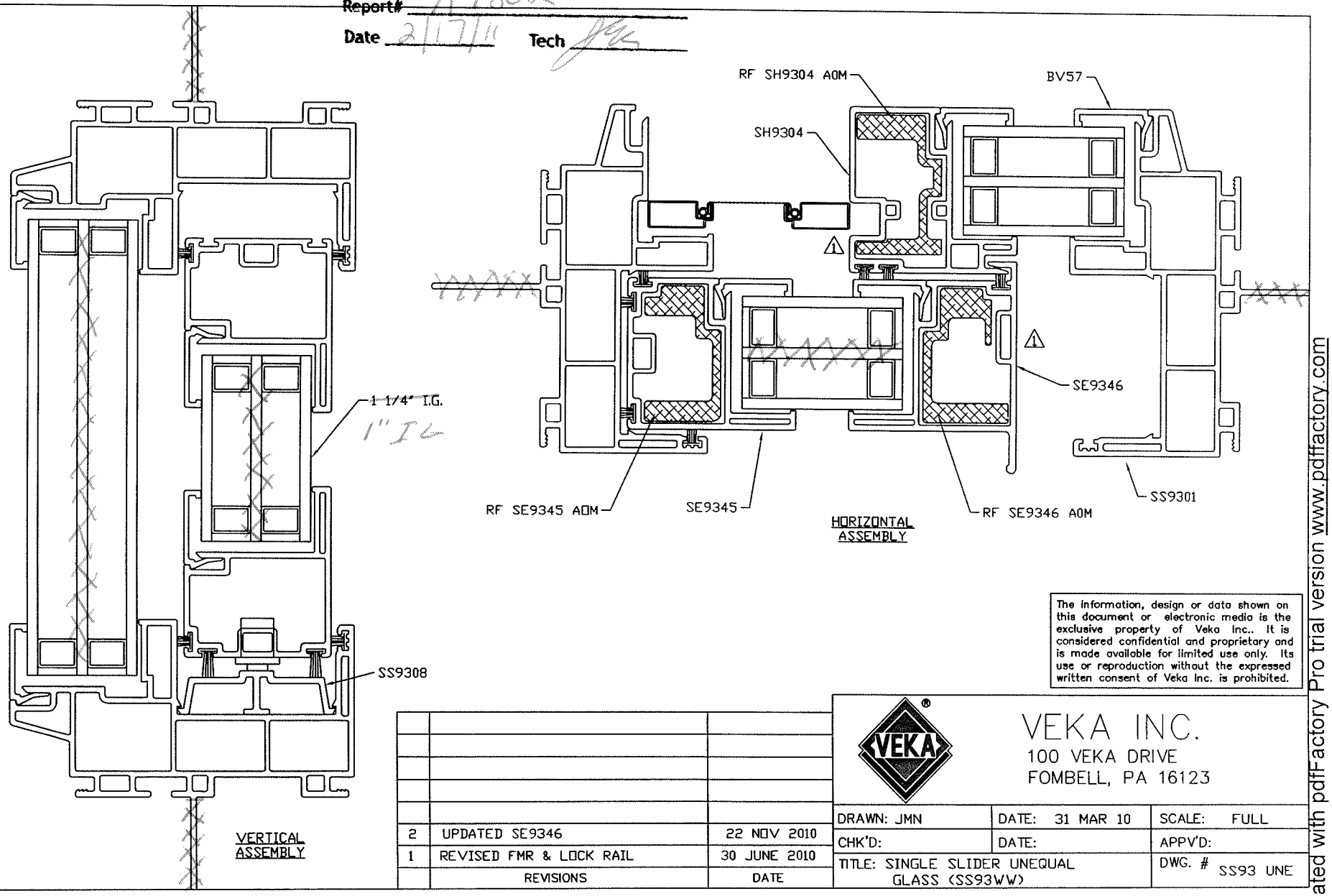
Architectural Testing

Test sample complies with these details.
Deviations are noted.

With vatical reinforcement only

Report# A7802

Date 2/17/11 Tech JEL



	REVISIONS	DATE
2	UPDATED SE9346	22 NOV 2010
1	REVISED FMR & LOCK RAIL	30 JUNE 2010

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

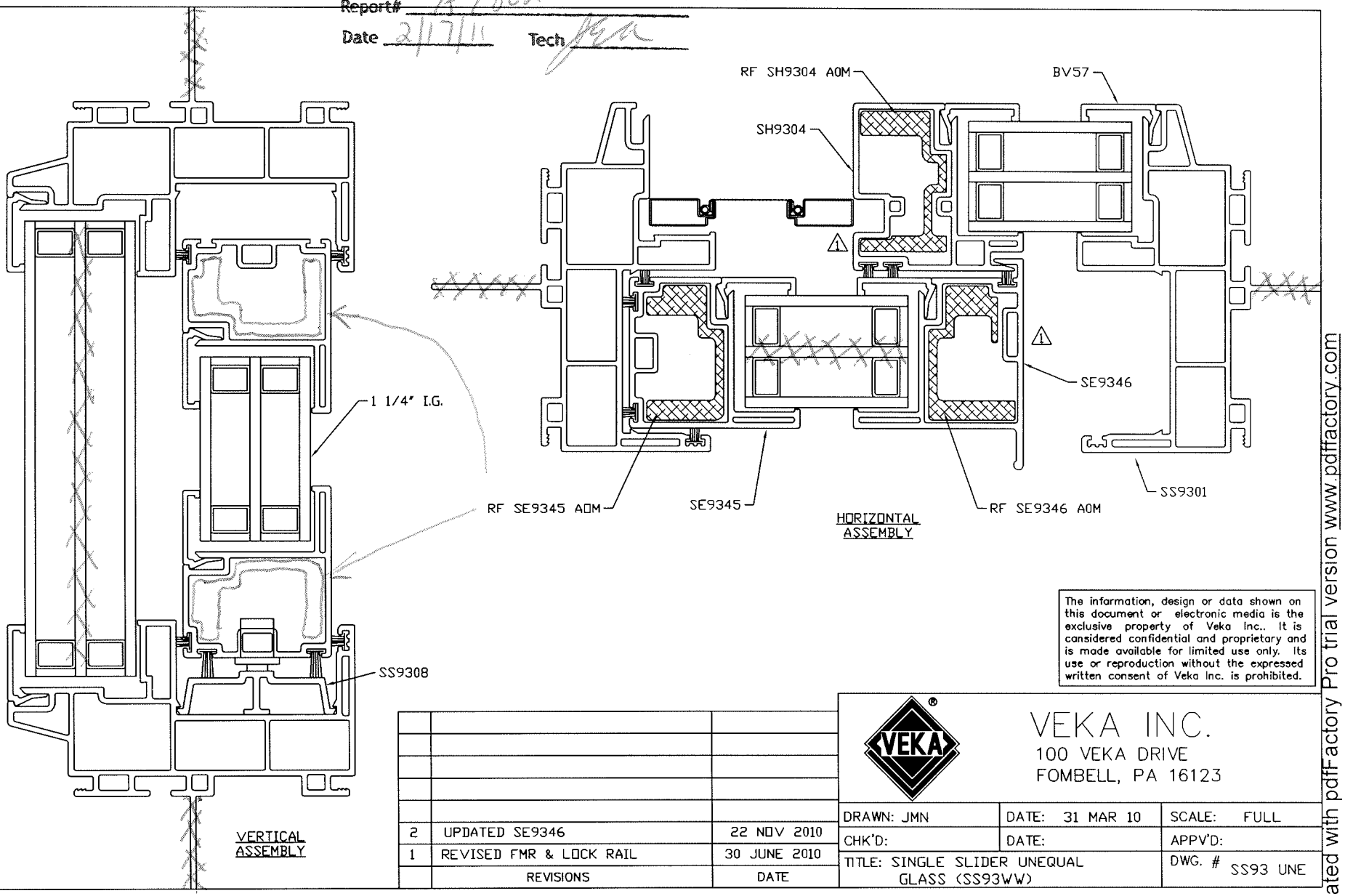
DRAWN: JMN	DATE: 31 MAR 10	SCALE: FULL
CHK'D:	DATE:	APPV'D:
TITLE: SINGLE SLIDER UNEQUAL GLASS (SS93WW)		DWG. # SS93 UNE

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A7502 with Full Reinforcement

Date 2/17/11 Tech



	REVISIONS	DATE
2	UPDATED SE9346	22 NOV 2010
1	REVISED FMR & LOCK RAIL	30 JUNE 2010

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

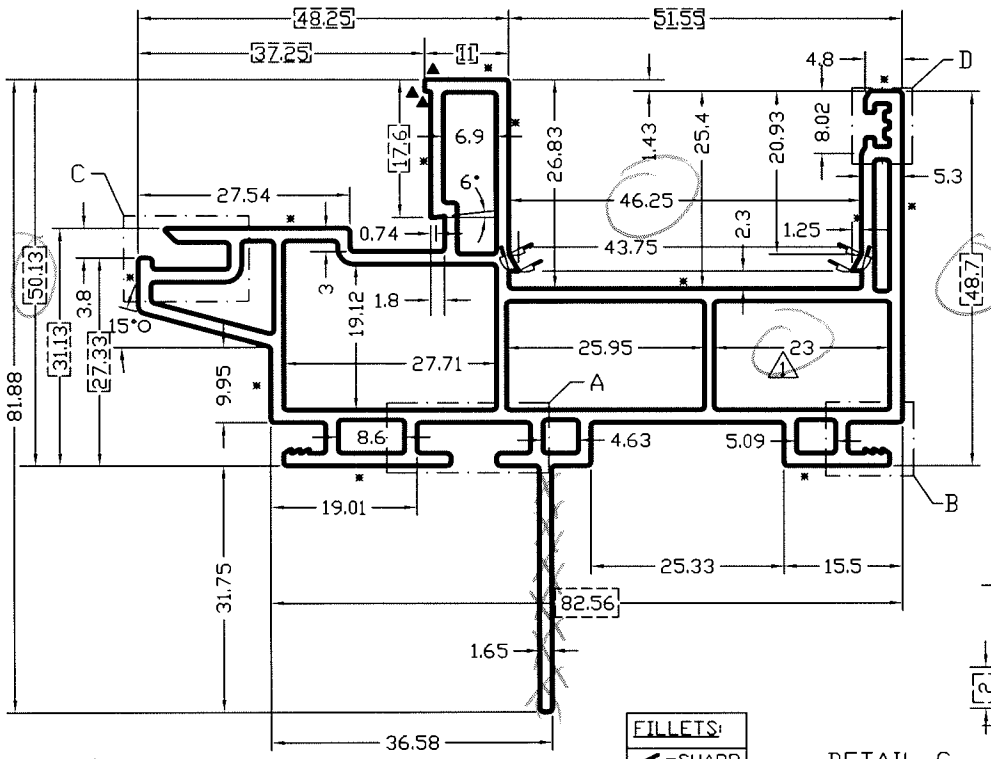
DRAWN: JMN	DATE: 31 MAR 10	SCALE: FULL
CHK'D:	DATE:	APPV'D:
TITLE: SINGLE SLIDER UNEQUAL GLASS (SS93WW)		DWG. # SS93 UNE

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A780n

Date 2/17/11 Tech



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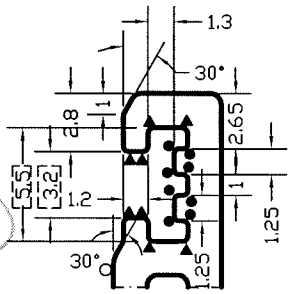
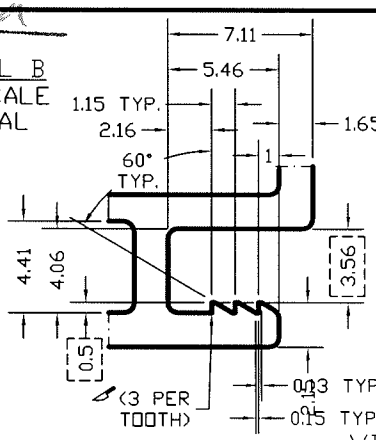
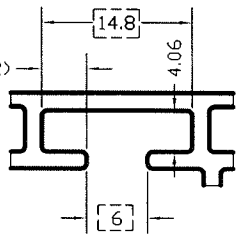


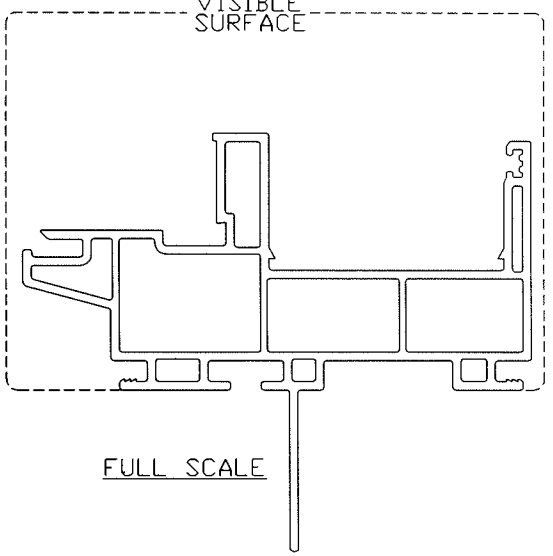
DETAIL D
4X SCALE



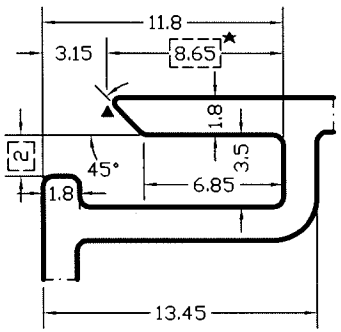
DETAIL B
4X SCALE
TYPICAL



DETAIL A
2X SCALE



FULL SCALE



DETAIL C
4X SCALE

FILLETS:
=SHARP
● =R0.2
▲ =R0.25
=R1.0

★ = DIMENSION TAKEN FROM FURTHEST POINT ON RADIUS

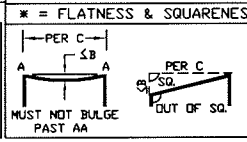
MATERIAL: RIGID PVC

DIMENSIONS ARE IN MILLIMETERS.

NOTE: ALL DIMENSIONS CAN BE ASSUMED AS ORIGINATING FROM SHARP CORNERS, UNLESS NOTED OTHERWISE.

=CRITICAL DIMENSION

* = FLATNESS & SQUARENESS CRITICAL



B	PER C
e ≤.0154	PER 10MM
≤.20mm.	130mm.
≤.16mm.	105mm.
≤.07mm.	45mm.

1	26.1 TO 23, 22.85 TO 25.95	24 SEPT 2010 (TJF)
	REVISIONS	DATE

WEIGHT: 0.788 lb/ft AREA: 805.582mm²

UNSPECIFIED WALL THICKNESS OUTER 1.65mm INNER 1.3mm

UNSPECIFIED RADII 0.5mm UNSPECIFIED TOLERANCE ±0.2mm

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

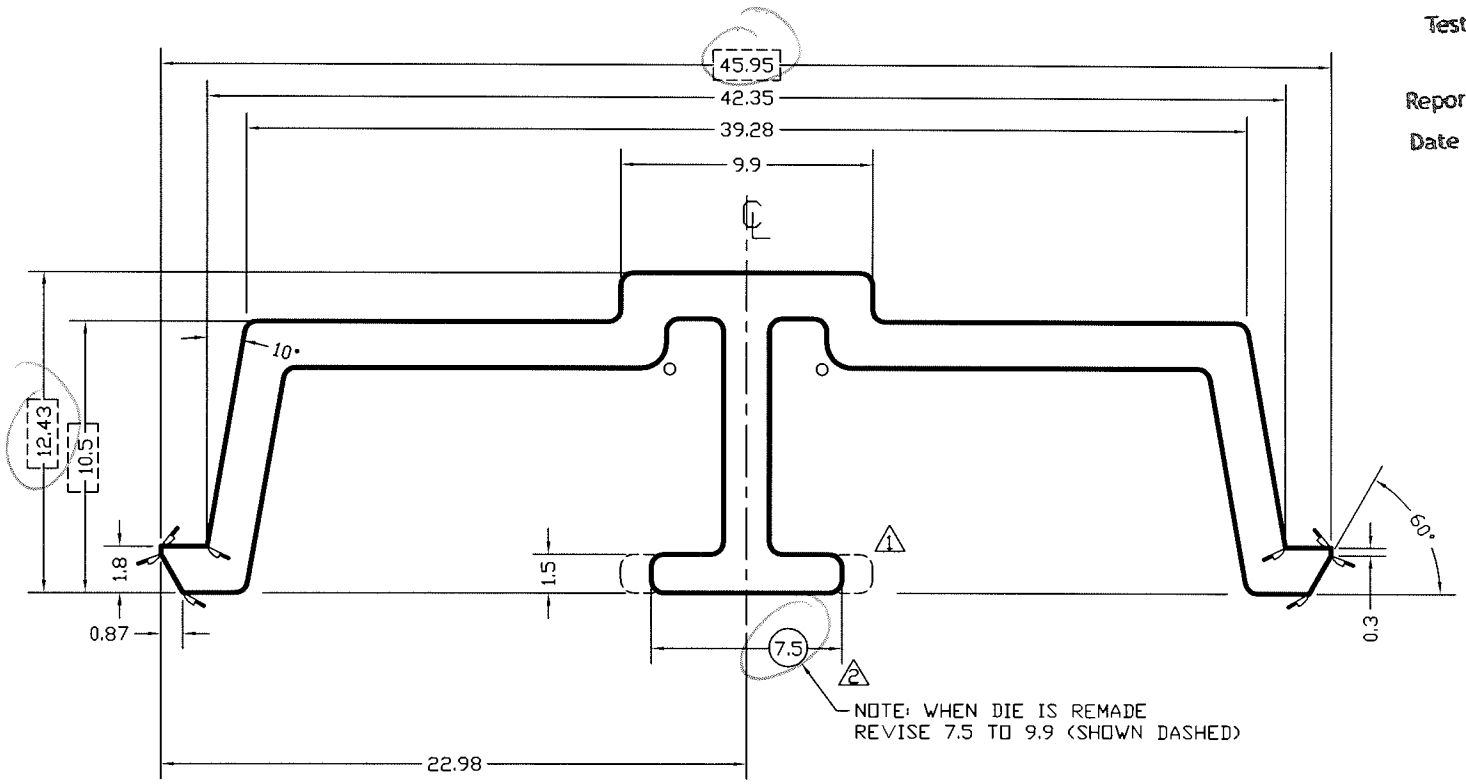
DRAWN: SMB	DATE: 7 JULY 2010	SCALE: AS NOTED
CHK'D:	DATE:	APPV'D:
TITLE SINGLE SLIDER FRAME		DWG. # SS9301

Architectural Testing

Test sample complies with these details.
Deviations are noted.

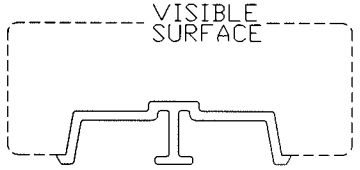
Report# A7805

Date 2/16/11 Tech



5X SCALE

FILLETS:
O =R1.0
=SHARP



FULL SCALE

NOTE: PART IS SYMMETRICAL ABOUT ℄

DIMENSIONS ARE IN MILLIMETERS.

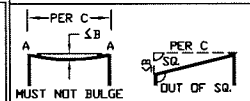
★ = DIMENSION TAKEN FROM FURTHEST POINT ON RADIUS

MATERIAL: RIGID PVC

NOTE: ALL DIMENSIONS CAN BE ASSUMED AS ORIGINATING FROM SHARP CORNERS, UNLESS NOTED OTHERWISE.

=CRITICAL DIMENSION

* = FLATNESS & SQUARENESS CRITICAL



B ≤.0154	PER C PER 10MM
≤.20mm.	130mm.
≤.16mm.	105mm.
≤.07mm.	45mm.

2	9.9 TO 7.5, ADJUST AREA & WEIGHT PER REV	27 SEPT 2010 TJF
1	4.2 TO 9.9, ADJUST AREA & WEIGHT PER REV	19 AUG 2010 TJF
	REVISIONS	DATE

WEIGHT: 0.139 lb/ft AREA: 141.929 mm² 1

UNSPECIFIED WALL THICKNESS 1.8mm

UNSPECIFIED RADII 0.5mm UNSPECIFIED TOLERANCE ±0.2mm

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

DRAWN: SMB	DATE: 16 JULY 10	SCALE: AS NOTED
CHK'D:	DATE:	APPV'D:
TITLE ROLLER TRACK		DWG. # SS9308

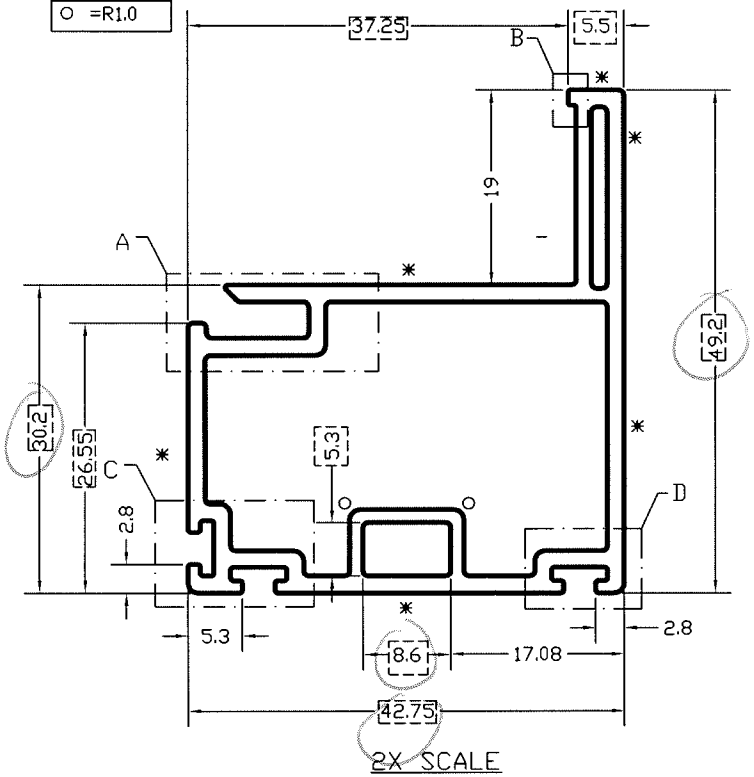
Architectural Testing

Test sample complies with these details.
Deviations are noted.

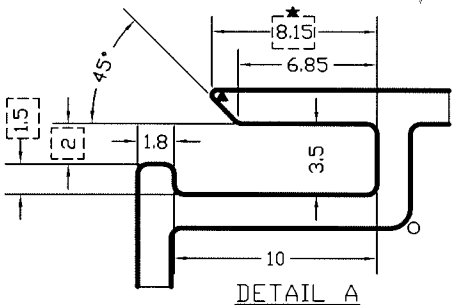
Report# A780h

Date 2/17/11 Tech

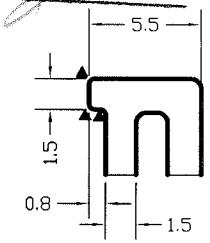
FILLETS:
▲ =R0.25
○ =R1.0



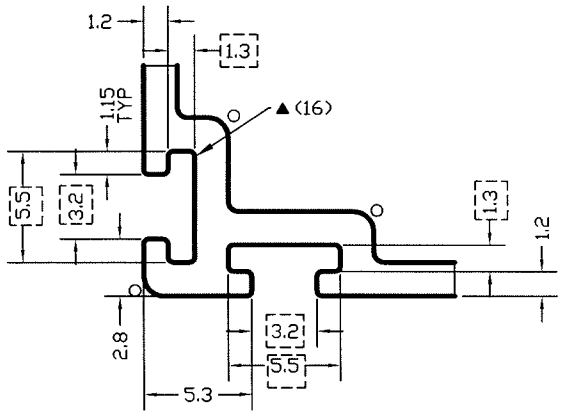
2X SCALE



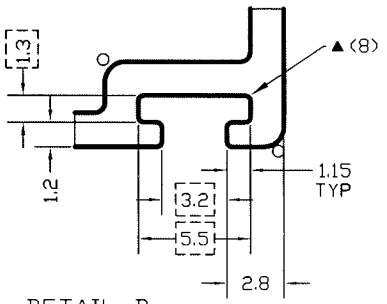
DETAIL A
4X SCALE



DETAIL B
4X SCALE

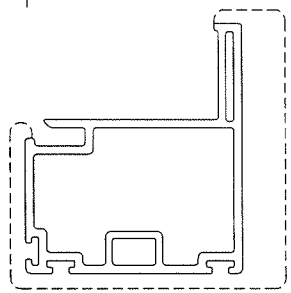


DETAIL C
4X SCALE



DETAIL D
4X SCALE

VISIBLE SURFACE



FULL SCALE

DIMENSIONS ARE IN MILLIMETERS.

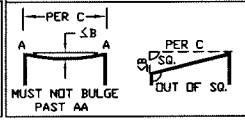
★ = DIMENSION TAKEN FROM FURTHEST POINT ON RADIUS

MATERIAL: RIGID PVC

NOTE: ALL DIMENSIONS CAN BE ASSUMED AS ORIGINATING FROM SHARP CORNERS, UNLESS NOTED OTHERWISE.

[---] =CRITICAL DIMENSION

* = FLATNESS & SQUARENESS CRITICAL



B ℓ ≤.0154	PER C PER 10MM
≤.20mm.	130mm.
≤.16mm.	105mm.
≤.07mm.	45mm.

REVISIONS	DATE

WEIGHT: 0.349 lb/ft AREA: 356.481mm²

UNSPECIFIED WALL THICKNESS OUTER 1.65mm INNER 1.3mm

UNSPECIFIED RADII 0.5mm UNSPECIFIED TOLERANCE ±0.2mm

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

DRAWN: BJF	DATE: 28 JUN 10	SCALE: AS NOTED
CHK'D:	DATE:	APPV'D:
TITLE COMMON SASH		DWG. # SE9345

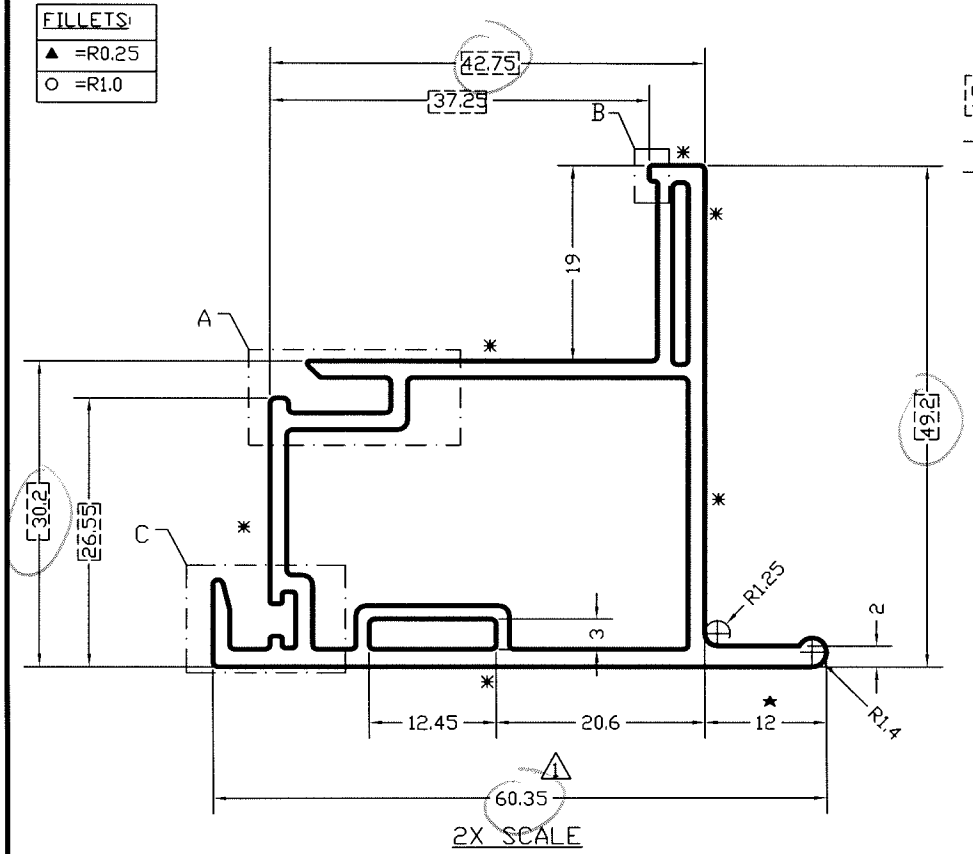
Architectural Testing

Test sample complies with these details.
Deviations are noted.

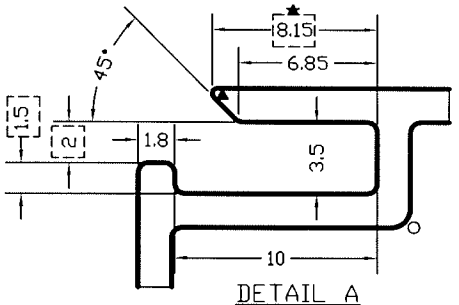
Report# ATSC

Date 2/17/11 Tech

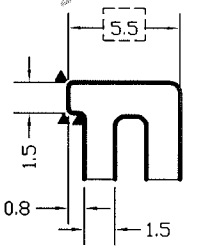
FILLETS:
▲ =R0.25
O =R1.0



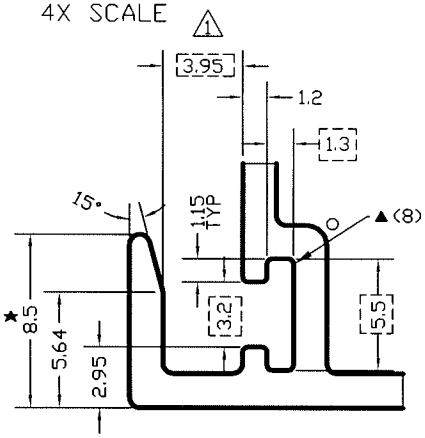
2X SCALE



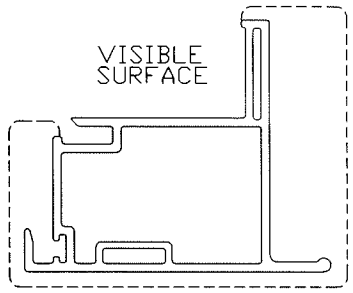
DETAIL A
4X SCALE



DETAIL B
4X SCALE



DETAIL C
4X SCALE



FULL SCALE

DIMENSIONS ARE IN MILLIMETERS.

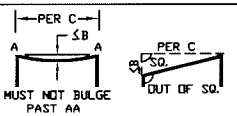
★ = DIMENSION TAKEN FROM FURTHEST POINT ON RADIUS

MATERIAL: RIGID PVC

NOTE: ALL DIMENSIONS CAN BE ASSUMED AS ORIGINATING FROM SHARP CORNERS, UNLESS NOTED OTHERWISE.

[---] =CRITICAL DIMENSION

* = FLATNESS & SQUARENESS CRITICAL



B	PER C
≤.0154	PER 10MM
≤.20mm.	130mm.
≤.16mm.	105mm.
≤.07mm.	45mm.

1.	REV. INTERLOCK WIDTH	19 NOV 10 JMN
	REVISIONS	DATE

WEIGHT: 0.379 lb/ft AREA: 387.626 mm²

UNSPECIFIED WALL THICKNESS OUTER 1.65mm INNER 1.3mm

UNSPECIFIED RADII 0.5mm UNSPECIFIED TOLERANCE ±0.2mm

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

DRAWN: BJF	DATE: 06 JUL 10	SCALE: AS NOTED
CHK'D:	DATE:	APPV'D:
TITLE LIFT RAIL		DWG. # SE9346

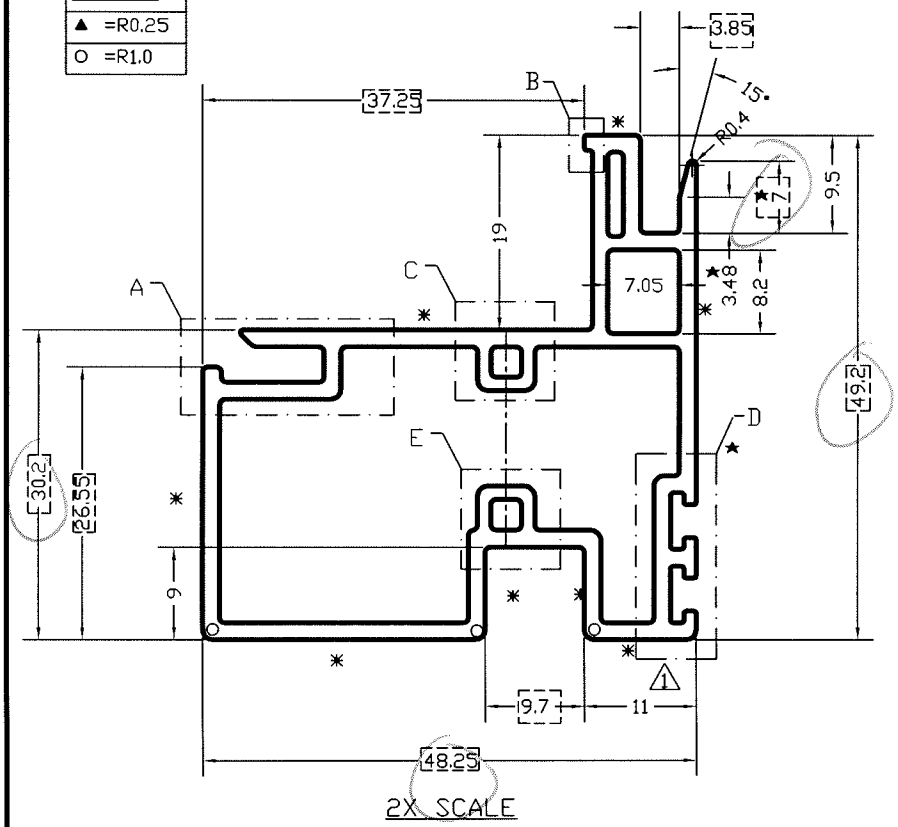
Architectural Testing

Test sample complies with these details.
Deviations are noted.

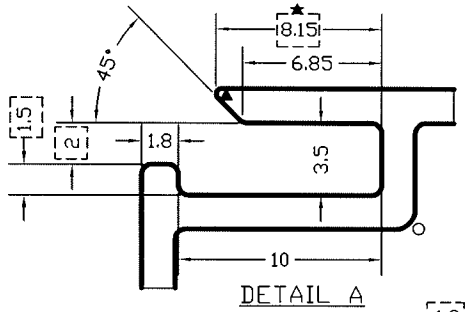
Report# A780h

Date 2/17/11 Tech

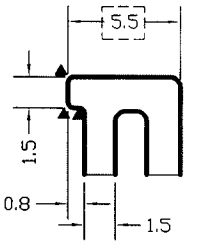
FILLETS:
▲ =R0.25
O =R1.0



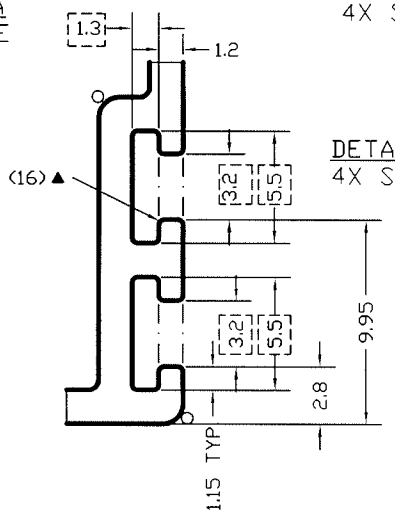
2X SCALE



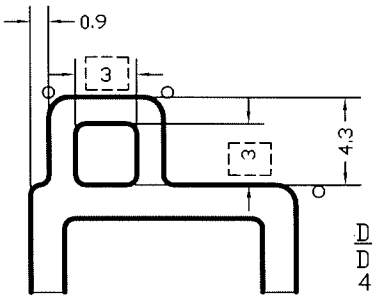
DETAIL A
4X SCALE



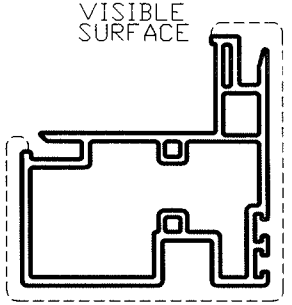
DETAIL B
4X SCALE



DETAIL D
4X SCALE



DETAIL E
DETAIL C SIMULAR
4X SCALE



FULL SCALE

★ = DIMENSION TAKEN FROM FURTHEST POINT ON RADIUS

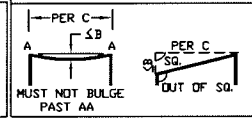
DIMENSIONS ARE IN MILLIMETERS.

MATERIAL: RIGID PVC

NOTE: ALL DIMENSIONS CAN BE ASSUMED AS ORIGINATING FROM SHARP CORNERS, UNLESS NOTED OTHERWISE.

[ ] =CRITICAL DIMENSION

* = FLATNESS & SQUARENESS CRITICAL



B	PER C
e ≤.0154	PER 10MM
≤.20mm.	130mm.
≤.16mm.	105mm.
≤.07mm.	45mm.

1	WAS 10.1; NOW 11	DATE
	REVISIONS	DATE

WEIGHT: 0.409 lb/ft AREA: 418.346 mm²

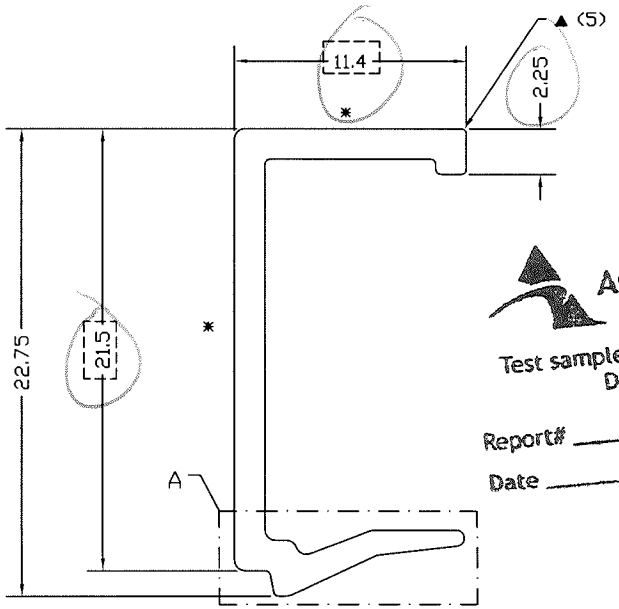
UNSPECIFIED WALL THICKNESS OUTER 1.65mm INNER 1.3mm

UNSPECIFIED RADII 0.5mm UNSPECIFIED TOLERANCE ±0.2mm

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

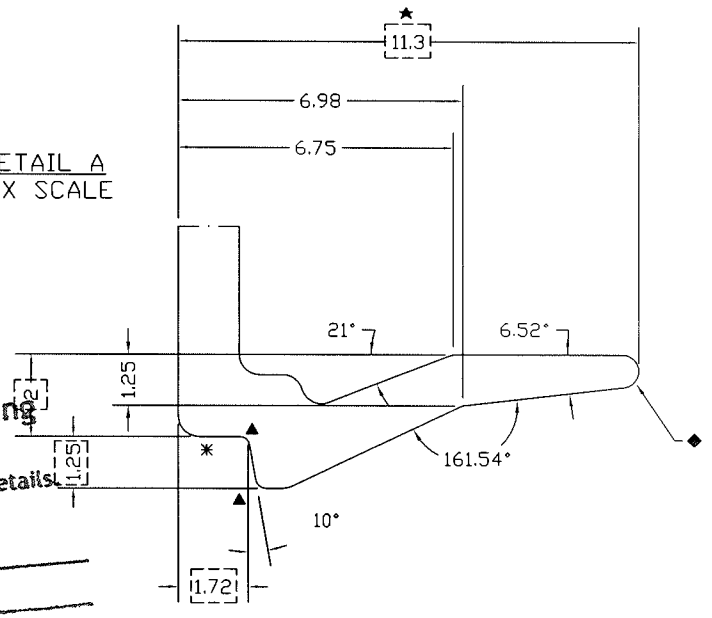
DRAWN: BJF	DATE: 24 JUN 10	SCALE: AS NOTED
CHK'D:	DATE:	APPV'D:
TITLE FIXED MEETING RAIL		DWG. # SH9304

FILLETS:
▲ =R0.25
◆ =R0.4



4X SCALE

DETAIL A
8X SCALE

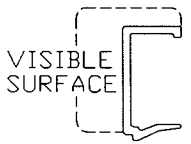


Architectural Testing

Test sample complies with these details. Deviations are noted.

Report# _____

Date _____ Tech _____



FULL SCALE

DIMENSIONS ARE IN MILLIMETERS.

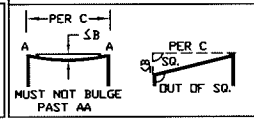
★ = DIMENSION TAKEN FROM FURTHEST POINT ON RADIUS

MATERIAL: RIGID PVC

NOTE: ALL DIMENSIONS CAN BE ASSUMED AS ORIGINATING FROM SHARP CORNERS, UNLESS NOTED OTHERWISE.

[ ] =CRITICAL DIMENSION

✱ = FLATNESS & SQUARENESS CRITICAL



B @ ≤.0154	PER C PER 10MM
≤.20mm.	130mm.
≤.16mm.	105mm.
≤.07mm.	45mm.

	REVISIONS	DATE

WEIGHT: 0.061 lb/ft AREA: 62.19mm²

UNSPECIFIED WALL THICKNESS OUTER 1.50mm INNER N/A

UNSPECIFIED RADII 0.5mm UNSPECIFIED TOLERANCE ±0.2mm

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

DRAWN: BJF	DATE: 19 SEPT 05	SCALE: AS NOTED
CHK'D:	DATE:	APPV'D:
TITLE 3/4" GLAZING BEAD		DWG. # BV137

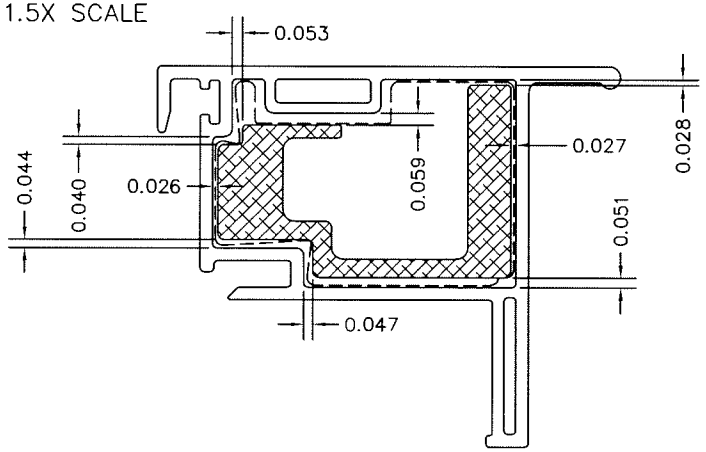
Architectural Testing

Test sample complies with these details.
Deviations are noted.

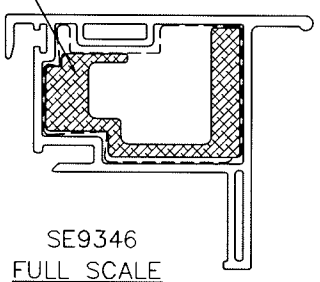
Report# A760h

Date 2/17/11 Tech

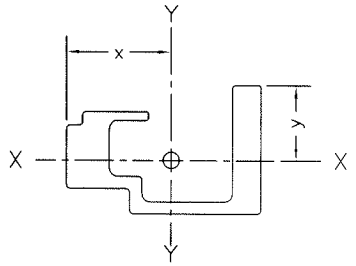
CLEARANCES
1.5X SCALE



RF SE9346 AOM

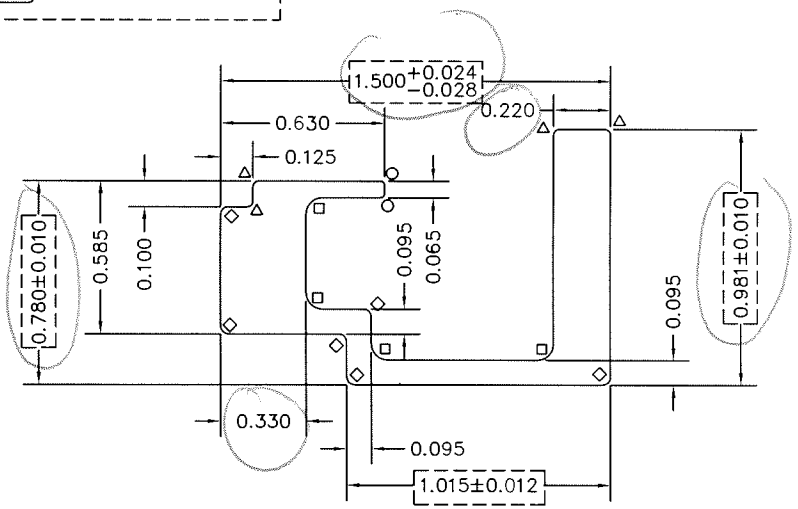


SE9346
FULL SCALE



FULL SCALE

FILLETS:
○ = R0.015
△ = R0.020
◇ = R0.030
□ = R0.060



RF SE9346 AO M
2X SCALE

PROFILE PROPERTIES
MATERIAL: 6063–T6

AREA: 0.5266 IN.²
WEIGHT: 0.632 #/Ft.

MOMENTS OF INERTIA:
Ixx: 0.03767 IN.⁴
Iyy: 0.1591 IN.⁴
EXTREME FIBER DISTANCE:
x: 0.8052 IN.
y: 0.5691 IN.
SECTION MODULII:
Sxx: 0.06620 IN.³
Syy: 0.1976 IN.³

NOTE: DIMENSIONS ARE IN INCHES

STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ROD BAR & SHAPES APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE

Q.A. NOTE:
[ ] = CRITICAL DIMENSION

	REVISIONS	DATE

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

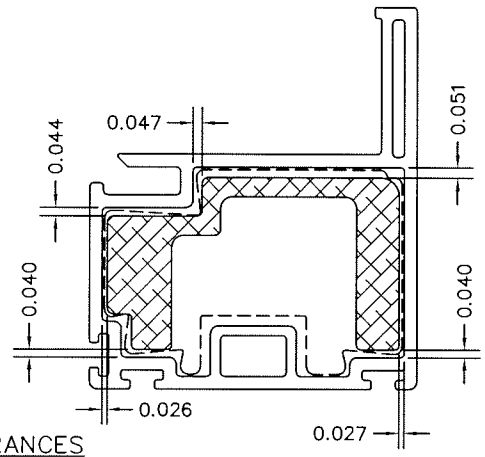
DRAWN: BJF	DATE: 12 OCT 10	SCALE: AS NOT
CHK'D: JMN	DATE: 21 OCT 10	APPV'D: JJS
TITLE SE9346 (DH93WW) REINFORCING LC CLASS		DWG. # RF SE9346

Architectural Testing

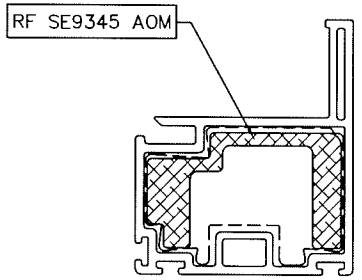
Test sample complies with these details.
Deviations are noted.

Report# A7802

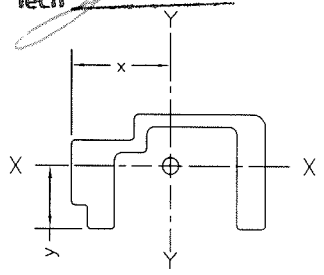
Date 11/11/10 Tech



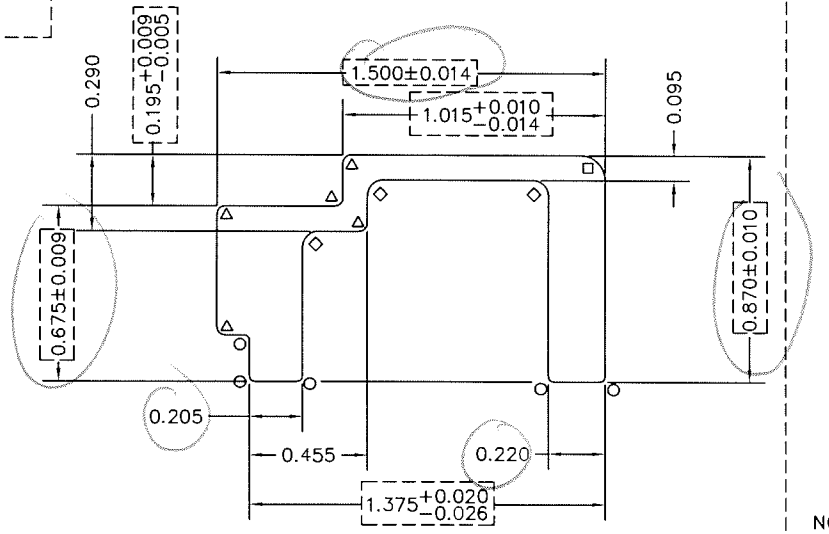
CLEARANCES
1.5X SCALE



SE9345
FULL SCALE



FULL SCALE



RF SE9345 AO M
2X SCALE

FILLETS:
○ = R0.020
□ = R0.015
△ = R0.030
◇ = R0.060

PROFILE PROPERTIES

MATERIAL: 6063-T5

AREA: 0.4999 IN.^{2}
WEIGHT: 0.600 #/Ft.

MOMENTS OF INERTIA:
Ixx: 0.0317 IN.^{4}
Iyy: 0.1536 IN.^{4}
EXTREME FIBER DISTANCE:
x: 0.765 IN.
y: 0.480 IN.
SECTION MODULII:
Sxx: 0.0661 IN.^{3}
Syy: 0.2008 IN.^{3}

NOTE: DIMENSIONS ARE IN INCHES

STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ROD BAR & SHAPES APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE

Q.A. NOTE:
[ ] =CRITICAL DIMENSION

	REVISIONS	DATE

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

DRAWN: BJF	DATE: 12 OCT 10	SCALE: AS NO
CHK'D: JMN	DATE: 21 OCT 10	APPV'D: JJS
TITLE SE9345 REINFORCING LC CLASS		DWG. # RF SE9345

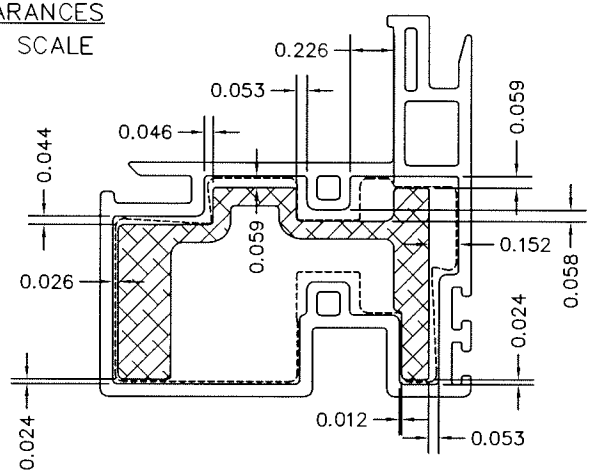
Architectural Testing

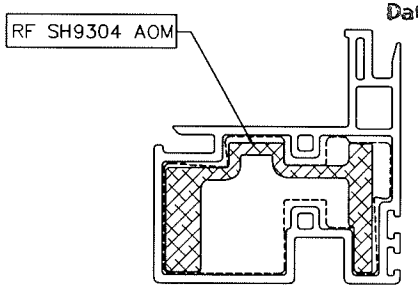
Test sample complies with these details.
Deviations are noted.

Report# A7802

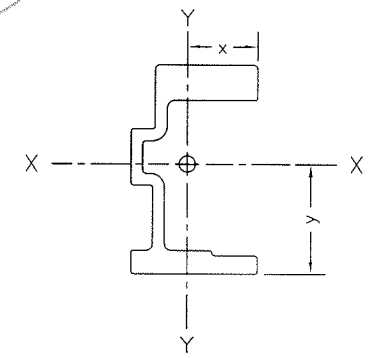
Date 2/17/11 Tech

CLEARANCES
1.5X SCALE

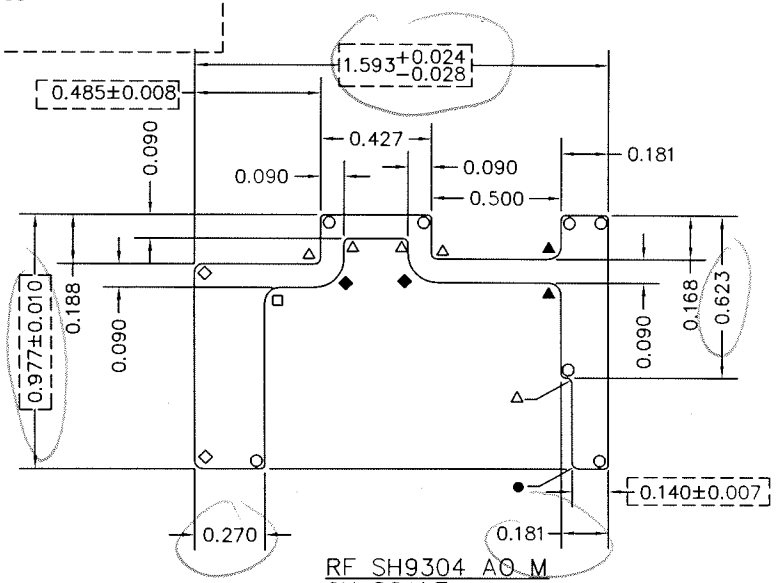




SH9304
FULL SCALE



FULL SCALE



RF SH9304 AO M
2X SCALE

FILLETS:
○ = R0.015
△ = R0.020
● = R0.025
▲ = R0.050
◇ = R0.030
□ = R0.060
◆ = R0.110

PROFILE PROPERTIES
MATERIAL: 6063−T6
AREA: 0.5062 IN.^{2}
WEIGHT: 0.607 #/Ft.
MOMENTS OF INERTIA:
Ixx: 0.18875 IN.^{4}
Iyy: 0.03899N.^{4}
EXTREME FIBER DISTANCE:
x: 0.5438IN.
y: 0.840 IN.
SECTION MODULII:
Sxx: 0.2248 IN.^{3}
Syy: 0.07163 IN.^{3}

NOTE: DIMENSIONS ARE IN INCHES

STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ROD BAR & SHAPES APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE

Q.A. NOTE:
[ ] =CRITICAL DIMENSION

REVISIONS	DATE

VEKA INC.
100 VEKA DRIVE
FOMBELL, PA 16123

DRAWN: BJF	DATE: 12 OCT 10	SCALE:AS NOTI
CHK'D: JMN	DATE: 21 OCT 2010	APPV'D: JJS
TITLE SH9304 REINFORCING LC CLASS		DWG. # RF SH9304