TEST REPORT

Report No.: F0621.01-901-44

Rendered to:

COEUR D'ALENE WINDOW
Spokane, Washington

PRODUCT TYPE: PVC Sliding Glass Door (XO)
SERIES/MODEL: 5821 French Rail

SPECIFICATIONS:
AAMA/WDMA/CSA 101/I.S.2/A440-11, *NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*
and
AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*
and
CSA A440S1-09, Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

Title	Summary of Results
AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11	Class LC PG25 2202 x 2202 (87 x 87) SD
Design Pressure	±1200 Pa (25.06 psf)
Air Infiltration	0.33 L/s/m^2 (0.06 cfm/ft^2)
Air Exfiltration	0.34 L/s/m^2 (0.07 cfm/ft^2)
Canadian Air Infiltration/Exfiltration Level	A3
Water Penetration Resistance Test Pressure	330 Pa (6.90 psf)

Test Completion Date: 11/16/15

Reference must be made to Report No. F0621.01-901-44, dated 12/08/15 for complete test specimen description and detailed test results.

1.0 Report Issued To: Coeur d'Alene Window
3808 N. Sullivan Road
Spokane, WA 99216

2.0 Test Laboratory: Architectural Testing, Inc.
an Intertek Company (Intertek-ATI)
22155 68th Ave. South
Kent, WA 98032
253-395-5656

3.0 Project Summary:

3.1 Product Type: PVC Sliding Glass Door (XO)

3.2 Series/Model: 5821 French Rail

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test methods. The specimen tested successfully met the performance requirements for a **Class LC PG25 2202 x 2202 (87 x 87) SD** rating.

3.4 Test Date: 11/16/15

3.5 Test Record Retention End Date: All test records for this report will be retained until 11/16/19.

3.6 Test Location: Intertek-ATI test facility in Kent, Washington.

3.7 Test Specimen Source: The test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek-ATI for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in the appropriate Appendix. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

Name	Company
Guillermo Silva	Intertek-ATI

4.0 Test Specification(s):

AAMA/WDMA/CSA 101/I.S.2/A440-11, *NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

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

CSA A440S1-09, Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area: 4.8 m^2 (52.2 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
Overall size	2202	86-5/8	2202	86-5/8
Operable panel	1082	42-5/8	2134	84
Fixed panel	1074	42-5/16	2144	84-5/8
Screen	1038	40-7/8	2150	84-5/8

5.2 Frame Construction:

Frame Member	**Material**	**Description**
Main frame	PVC	White, foam filled head and jambs
Panel track	PVC with stainless steel cap	White, snap-in
Screen track	PVC	White

	Joinery Type	**Detail**
All corners	Mitered	Thermally welded
Panel track	Drop-in	Cut short off each end to allow for drainage
Screen track	Drop-in	Full width

5.0 Test Specimen Description: (Continued)

5.3 Panel Construction:

Member	Material	Description
Panel	PVC	White, foam filled, top rail and stiles
French rail/site line adaptor	PVC	White, foam filled, top rail and stiles
Fixed interlock	PVC	White

	Joinery Type	Detail
All corners	Mitered	Thermally welded
French rail/site line adaptor	Mitered	Thermally welded and snapped into panels
Fixed interlock	Mechanical	Each end was coped, butt joined and secured with three #8 by 2-1/2" screws.
Unit assembly	Snap-in	Fixed panel was snapped into frame and fixed interlock.

5.4 Weatherstripping:

Description	Quantity	Location
6.9 mm (0.270") high pile with single center fin	1 row	Operable panel, full perimeter
6.1 mm (0.240") high pile with single center fin	1 row	Fixed interlock

5.5 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.*

Glass Type (Nominal)	Spacer Type	Interior Lite (Nominal)	Exterior Lite (Nominal)	Glazing Method
19 mm (3/4") IG	Steel	4 mm (5/32") tempered	4 mm (5/32") tempered	Exterior glazed against 3/8" foam tape and PVC glazing beads

Location	Qty.	Daylight Opening		Glass Bite
		millimeters	inches	
Active panel	1	875 x 1927	34-1/2 x 75-7/8	12.5 mm (1/2")
Fixed panel	1	857 x 1927	33-3/4 x 75-7/8	12.5 mm (1/2")

5.0 Test Specimen Description: (Continued)

5.6 Drainage:

Method	Size	Qty.	Location
Weep	4.8 mm (3/16")	2	Sill track insert cut short off each end
Weep	19.3 mm x 4.6 mm (3/4" x 3/16")	2	Sill track, approx. 60 mm (2-1/4") from the corner, through one wall (draining pocket into hollow)
Weep	19.3 mm x 4.6 mm (3/4" x 3/16")	2	Sill, interior panel pocket, approx. 25 mm (1") from the corner, through one wall (draining pocket into hollow)
Weep	25.6 mm x 52 mm (1" by 1/4")	2	Sill, internal walls, at the corner, through two walls (draining between hollows)
Weep	26.3 mm x 5.5 mm (1" x 1/4")	2	Sill, exterior face, approx. 75 mm (3") from the corner, through one wall (draining hollows)
Weep	12.5 mm x 3.8 mm (1/2" x 3/16")	1	Operable panel, bottom rail, approx. 25 mm (1") from the corner, through one wall (draining hollows)
Weep	12.5 mm x 3.8 mm (1/2" x 3/16")	2	Operable panel, French rail / site line adaptor, bottom rail, approx. 75 mm (3") from the corner, through two walls (draining glazing pocket)
Weep	12.5 mm x 3.8 mm (1/2" x 3/16")	2	Fixed panel, bottom rail, approx. 75 mm (3") from the corner, through two walls (draining hollows)
Weep	12.5 mm x 3.8 mm (1/2" x 3/16")	2	Fixed panel, French rail / site line adaptor, bottom rail, approx. 75 mm (3") from the corner, through two walls (draining glazing pocket)

5.7 Hardware:

Description	Qty.	Location
Multi-point lock (2) assembly	1	Panel, lock stile, located approx. at 965 mm (38") and 1015 mm (40) from the bottom
Metal keeper	1	Jamb, aligned with lock points and secured with four #10 x 1-3/8" screws
Anti-lift block	2	Head, above the operable panel in the closed position
Dual wheel adjustable roller in a metal housing	2	Panel, bottom rail

5.0 Test Specimen Description: (Continued)

5.8 Reinforcement:

Drawing Number	Location	Material
N5788	Operable panel, lock stile	Steel
N51011-2	Operable panel, meeting stile	Steel
N51042	Fixed panel, fixed interlock	Steel

5.9 Screen Construction:

Frame Material	Corner Construction	Mesh Type	Mesh Attachment Method
Aluminum	Corner key	Mesh	Spline

6.0 Installation:

The specimen was installed into a Doug-Fir wood buck. The rough opening allowed for shim space. The exterior perimeter of the window was sealed with sealant.

Location	Anchor Description	Anchor Location
Full perimeter	#8 by 1" screws	Less than 100 mm (4") from the corner and then approx. 100 mm (4") apart through pre-punched nail fin

7.0 Test Results: The temperature during testing was 23°C (74°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 37.8 N (8.5 lbf) Maintain motion: 35.6 N (8.0 lbf) Latches: 11.1 N (2.5 lbf)	135 N (30.35 lbf) max. 90 N (20.23 lbf) max. 100 N (22.48 lbf) max.	
Canadian Operating Force, per ASTM E 2068	Initiate motion: 37.8 N (8.5 lbf) Maintain motion: 35.6 N (8.0 lbf)	135 N (30.35 lbf) max. 90 N (20.23 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.33 L/s/m^2 (0.06 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.34 L/s/m^2 (0.07 cfm/ft^2)	0.5 L/s/m^2 (0.1 cfm/ft^2) max.	1
Canadian Air Infiltration/Exfiltration Level	A3	0.5 L/s/m^2 (0.1 cfm/ft^2) max.	
Water Penetration	N/A	N/A	2
Uniform Load Deflection	N/A	N/A	2
Uniform Load Structural	N/A	N/A	2
Forced Entry Resistance, per ASTM F 842, Grade: 25	Pass	No entry	
Forced Entry Resistance, per CAWM-300	Pass	No entry	
Thermoplastic Corner Weld	Pass	Meets as stated	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (50 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Title of Test	Results	Allowed	Note
Optional Performance			
Water Penetration, per ASTM E 547 at 330 Pa (6.90 psf)	Pass	No leakage	3
Uniform Load Deflection, per ASTM E 330 taken at meeting stile/interlock			
+1200 Pa (25.06 psf)	25.5 mm (1.00")	Report Only	
-1200 Pa (25.06 psf)	29.0 mm (1.14")	Report Only	4, 5, 6
Uniform Load Structural, per ASTM E 330 taken at meeting stile/interlock			
+1440 Pa (30.08 psf)	1.5 mm (0.06")	8.6 mm (0.34") max.	
-1440 Pa (30.08 psf)	1.3 mm (0.05")	8.6 mm (0.34") max.	5, 6

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

Note 3: With and without insect screen.

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 not used to seal against air leakage during structural testing.

Intertek-ATI will service this report for the entire test record retention period. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI 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 specimen tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI

Digitally Signed for: Guillermo Silva by Patricia Cain

Guillermo E. Silva
Technician

Digitally Signed by: Jeffrey L. Dideon

Jeffrey L. Dideon
Director - Regional Operations

GES:pac

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Alteration Addendum (1)
Appendix-B: Location of Air Seal (1)
Appendix-C: Drawings (14)

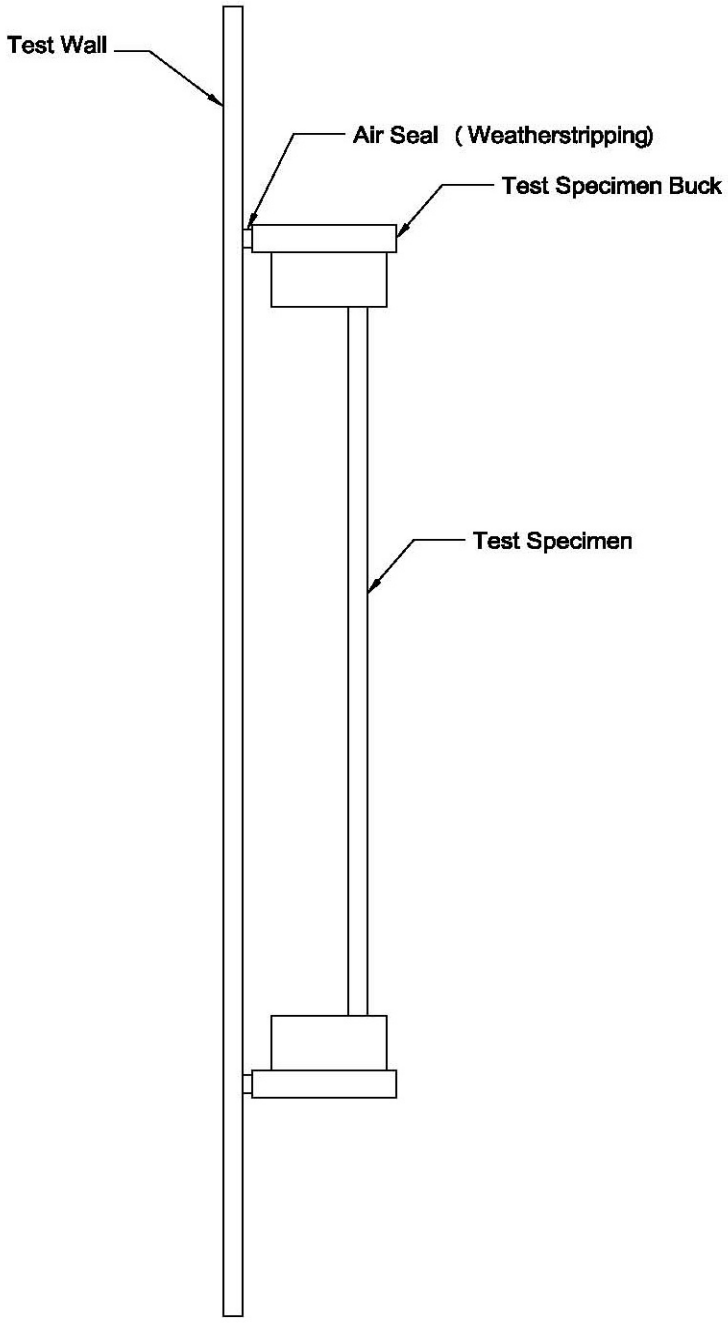
Appendix A

Alteration Addendum

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

Appendix B

Location of Air Seal: The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.

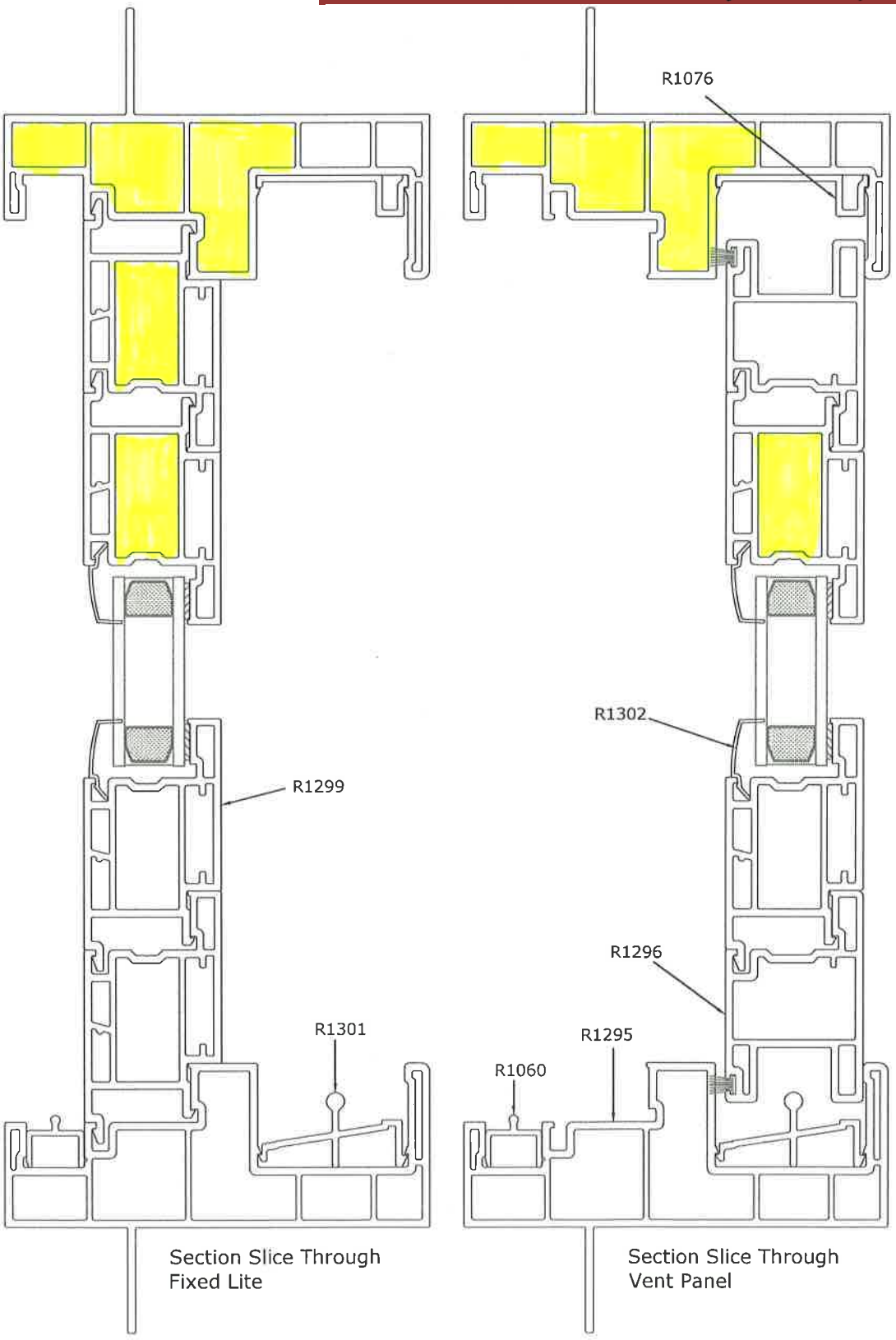


Appendix C

Drawings

Intertek
Architectural Testing

Report #: F0621-901-44
Date: 12/07/15
Verified by:



ROYAL Building Products

111 Royal Group Crescent
Woodbridge, Ontario
Canada L4H 1X9

Die#
Sys No. 308- L300_V
CUSTOMER CdA

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PROJECT: 308
DATE: April 28, 2014

Layout Name: Vertical Sections
Drawn by: gmc
SCALE 0.625:1
AREA .000
WT/FT .000

ACAD#: 308-L300_R1299 Stacked
Ref
PADII: UNMARKED 0.015

WALL TOLERANCES:	ANGULAR TOLERANCES:
0.000–0.099 ±0.006	XX ±1/2°

WALL THICKNESS:	SYMBOL:	
Exterior .000	SHARP	a
Interior .000	FLEX	b
■ .xxx	CRITICAL	c
▲ .xxx	EXPOSED	f
	-----	s

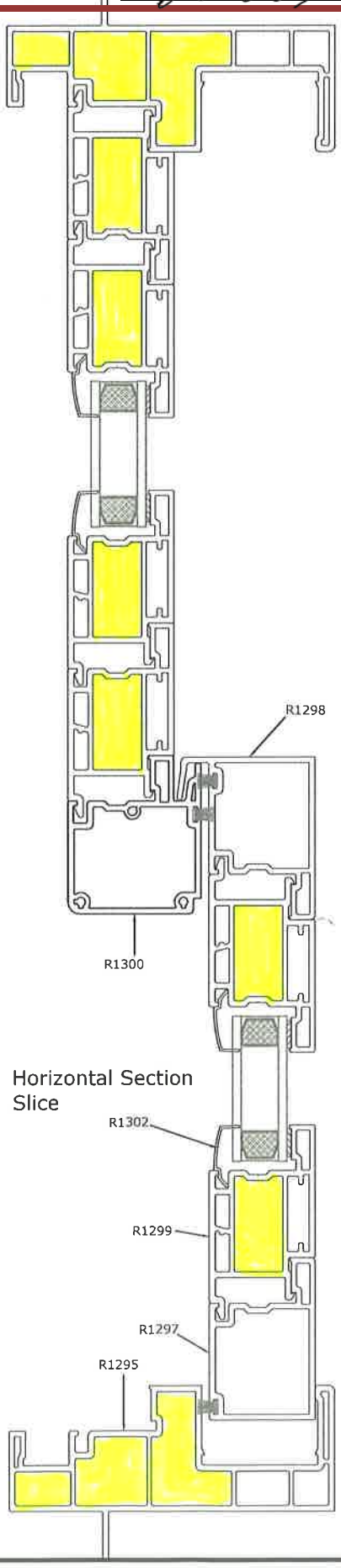
LINEAR TOLERANCES:			
0.000–0.999	±0.010	FULL	
1.000–1.999	±0.015	SHARP	
2.000–3.999	±0.020		

TITLE 308 SPD Vertical Sections – Stacked

4/29/2015 9:30:02 AM

Intertek
Architectural Testing

Report #: F0621-901-44
Date: 12/07/15
Verified by:



ROYAL Building Products
111 Royal Group Crescent
Woodbridge, Ontario
Canada L4H 1X9

Die#
Sys No. 308- L301_V
CUSTOMER CdA
TITLE 308 SPD Horizontal Section - Stacked

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PROJECT: 308
DATE: April 29, 2014

Layout Name: Horizontal Sections
Drawn by: gmc
SCALE 0.47:1
AREA .000
WT/FT .000

ACAD#: 308-L300_R1299 Stacked
Ref

LINEAR TOLERANCES:	
0.000–0.999	±0.010
1.000–1.999	±0.015
2.000–3.999	±0.020

WALL TOLERANCES:	ANGULAR TOLERANCES:
0.000–0.099	±0.006	x.x	±1/2°

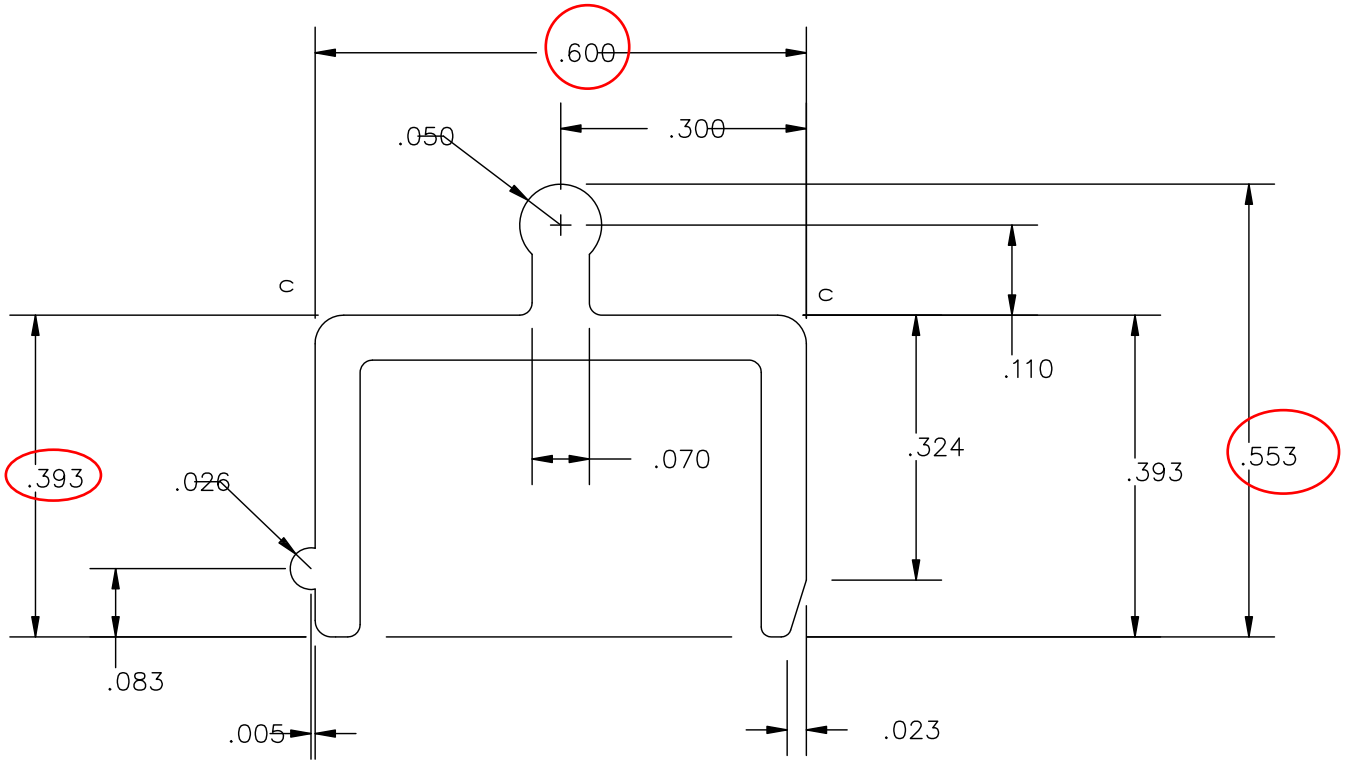
WALL THICKNESS:	SYMBOL:	
Exterior	.000	SHARP	a
Interior	.000	FLEX	b
■	.xxx	CRITICAL	c
▲	.xxx	EXPOSED	f
			s

RADII: UNMARKED 0.015
FULL
SHARP

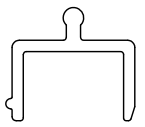
4/29/2015 9:30:03 AM

SCALE: 4: 1

a = SHARP
c = 0. 035R



Report #: F0621-901-44
Date: 12/07/15
Verified by:
Intertek
Architectural Testing



ACTUAL SI ZE

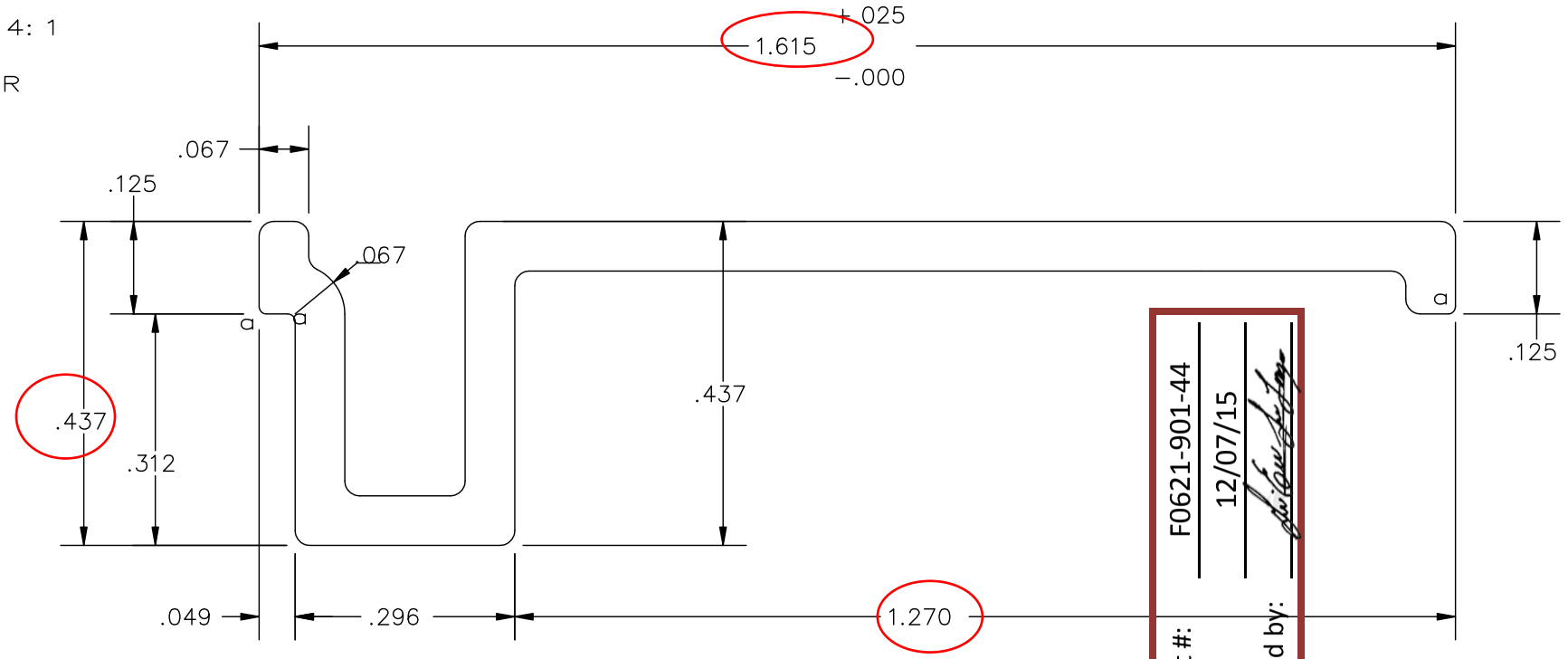
FAB REF				FI T TO	308–D1	308–D16	
XXX–XXX				308–D17			

CYCLOI D DESI GNS	DWG: 181–D8R	DATE: 17–JUN–94	SLI DI NG PATI O DOOR
TI TLE: PATI O DOOR SCREEN TRACK	RS1060		

EXTERNAL WALL: 0. 055
I NTERNAL WALL: x. xxx
CORNER TYP: 0. 020R
WEI GHT: 0. 052 LB/FT

SCALE: 4: 1

a=0. 01 OR



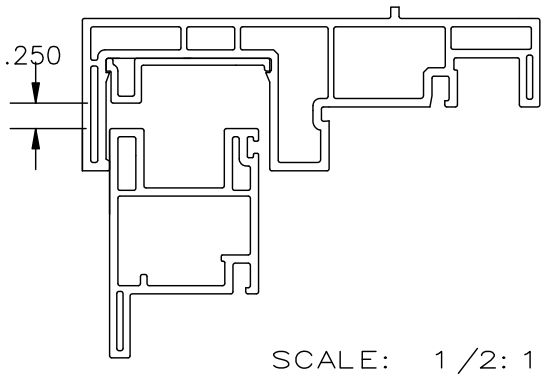
Report #: F0621-901-44

Date: 12/07/15

Verified by:

Intertek Architectural Testing

KE1631

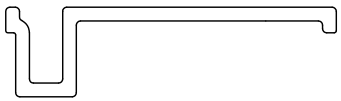


SCALE: 1/2: 1

APPROVED

28−OCT−95

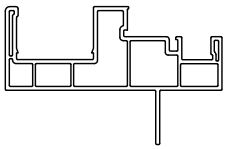
CYCLOID DESIGNS



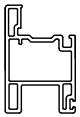
ACTUAL SIZE

FAB REF				FIT TO	308−D1	308−D16	
XXX−XXX				308−D17			

CYCLOID DESIGNS	DWG: 181−D15	DATE: 27−OCT−95	© 1995 COPYRIGHT KING EXTRUSIONS LTD WOODINVILLE, WASH ALL RIGHTS RESERVED
TITLE: PATIO DOOR ANIT−LIFT	RS1076		EXTERNAL WALL: 0.067 INTERNAL WALL: X.XXX CORNER TYP. 0.020R WEIGHT: 0.101 LB/FT



308–D1 RS1 295



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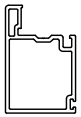

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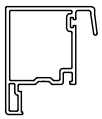

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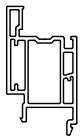
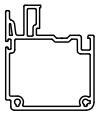


③ 308–D13 RS1 299



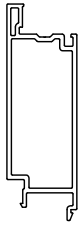
308–D14 RS1 300

181–D8 RS1 060

305–D35 RS1 281
FROM 305 SYSTEM

① 308–D19 RS1 301

308–D18 RS1 302



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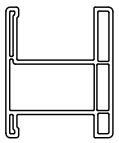

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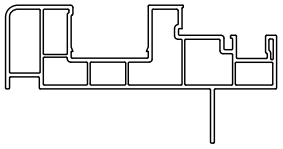


308–D16 RS1 305

APPROVED
18–OCT–04
CYCLOID DESIGNS

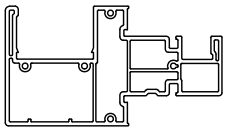
REV	DATE	REMARKS
3	05–18–99	PROFILE REVISED
2	02–11–99	INTERNAL WEB REMOVED
1	04–23–98	PART REVISED

SLIDING PATIO DOOR

DATE: 16–FEB–98

NO: 308–DO

TITLE: GENERAL PARTS LAYOUT



308–D17 RS1 306

308–D20 RS1 307

181–D15 RS1 076

④ 308–D25 RS1786

F0621-901-44

Report #:

12/07/15

Date:

Verified by:

Intertek

Architectural Testing

APPROVED
18–OCT–04
CYCLOID DESIGNS

REV	DATE	REMARKS
4	10–18–04	PROFIEL ADDED

SLIDING PATIO DOOR

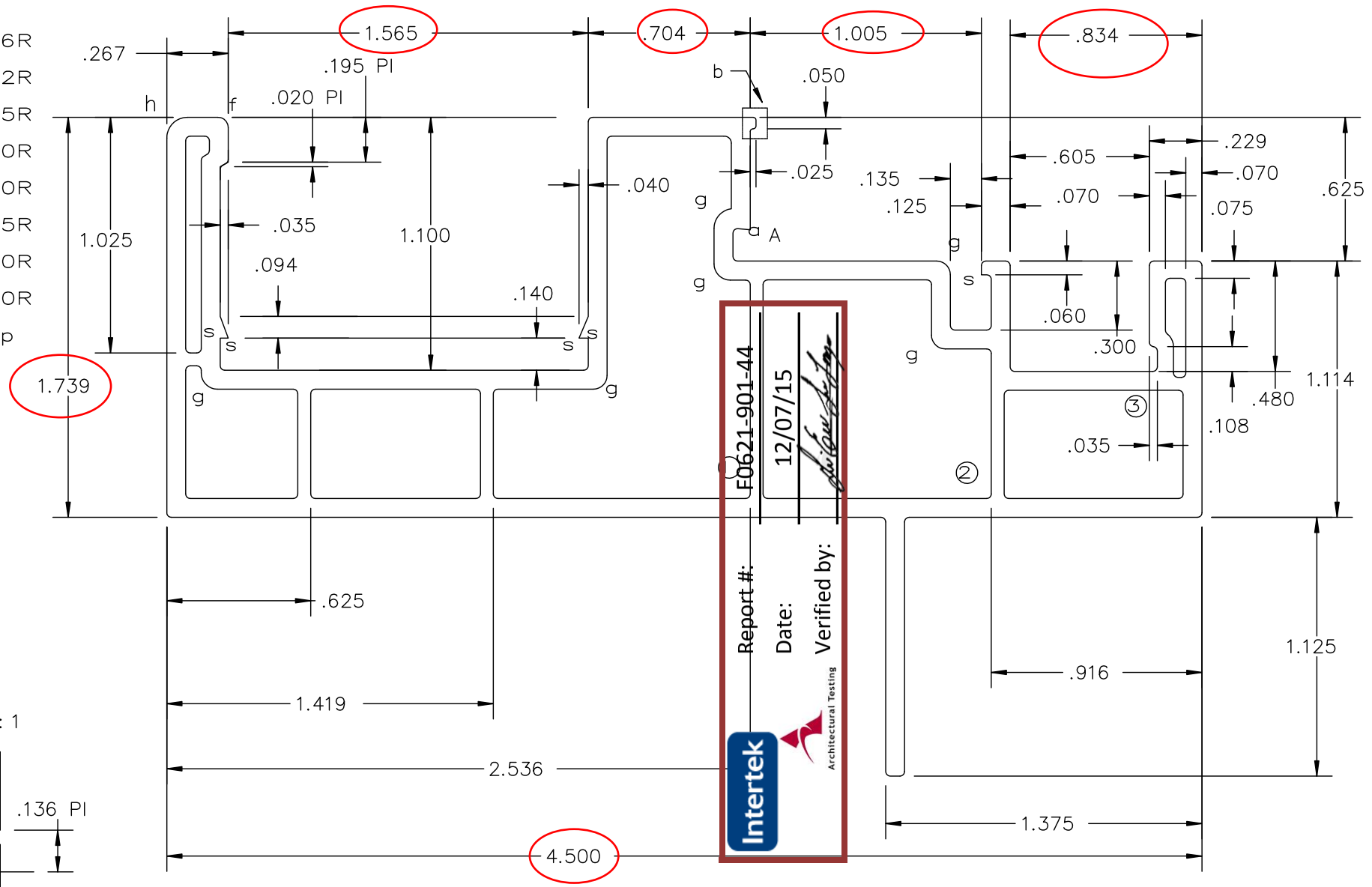
DATE: 16–FEB–98

NO: 308–DO

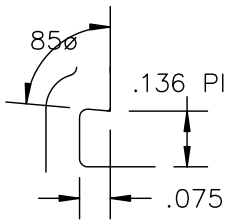
TITLE: GENERAL PARTS LAYOUT

SCALE : 1.5:1

a=0.006R
b=0.012R
c=0.015R
d=0.020R
e=0.030R
f=0.045R
g=0.060R
h=0.090R
s=sharp



DETAIL A
SCALE: 2:1



F0621-901-44
12/07/15
Report #:
Date:
Verified by:
Intertek
Architectural Testing

APPROVED
16-FEB-98
CYCLOID DESIGNS

REV	DATE	REMARKS
3	01-18-98	RETAINER DETAL ADDED; WT WAS .954
2	01-18-98	WALL MOVED; DIM WAS 0.954
1	01-18-98	WALL MOVED; DIM WAS 2.716

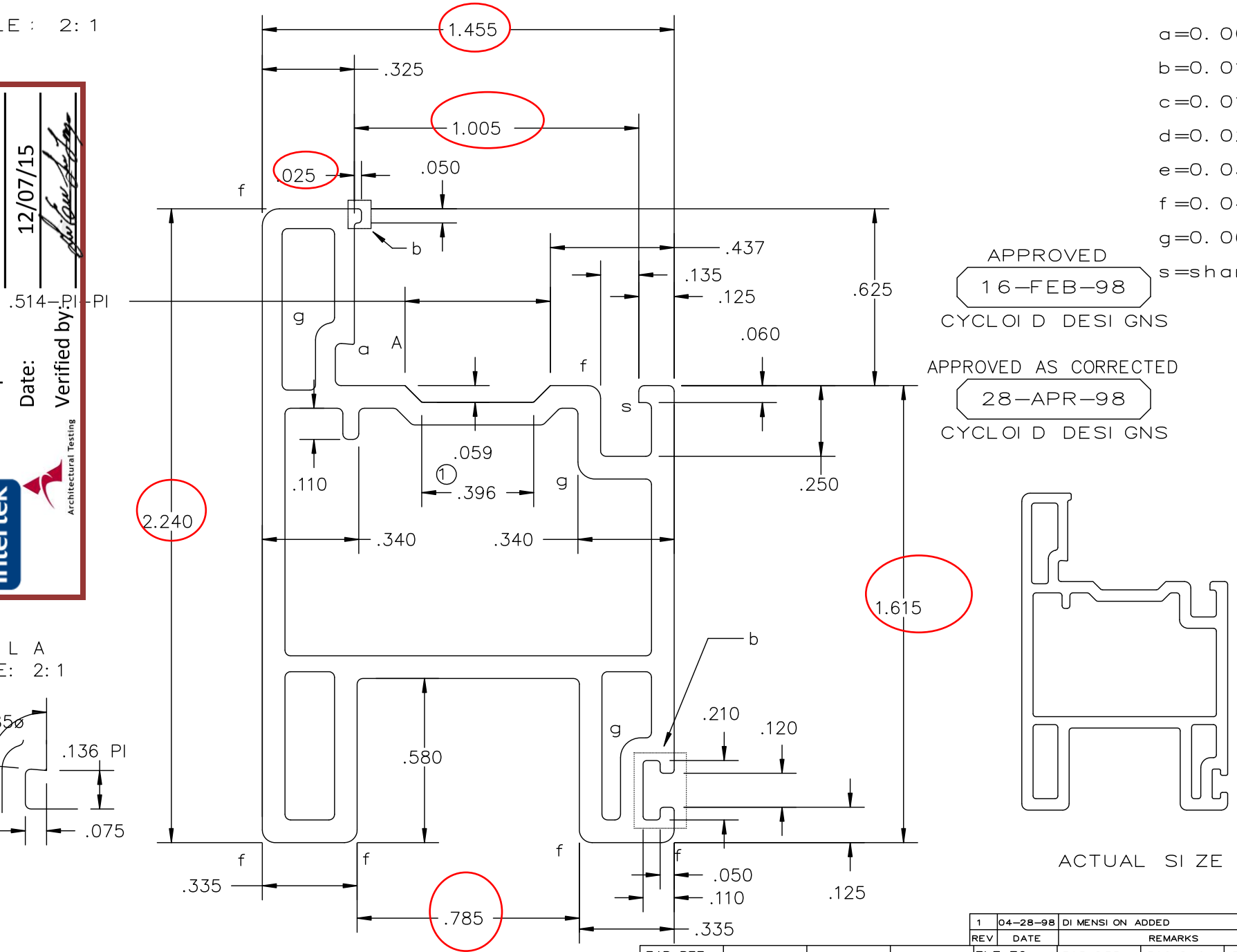
FAB REF	308-F2A	308-F5A	FIT TO	305-D35	308-D18	181-D8	308-D19
308-F2	308-F3		308-D13	308-D15	308-D20	181-D15	291-D7

CYCLOID DESIGNS	DWG: 308-D1	DATE: 11-FEB-98	
TITLE: FRAME WITH FIN	RS1295		EXTERNAL WALL: 0.082 INTERNAL WALL: 0.056 CORNER TYP: 0.020R WEIGHT: 0.953 LB/FT

SCALE : 2: 1

a=0. 006R
b=0. 012R
c=0. 015R
d=0. 020R
e=0. 030R
f =0. 045R
g=0. 060R
s=sharp

F0621-901-44
Report #:
12/07/15
Date:
Verified by:
Intertek Architectural Testing



APPROVED
16–FEB–98
CYCLOI D DESI GNS

APPROVED AS CORRECTED
28–APR–98
CYCLOI D DESI GNS

DETAI L A
SCALE: 2: 1

ACTUAL SI ZE

REV	DATE	REMARKS
1	04–28–98	DI MENSI ON ADDED

FAB REF				FI T TO	305–D35	308–D18	308–D13
308–F4				308–D15	291–D7		

CYCLOI D DESI GNS

DWG: 308–D10

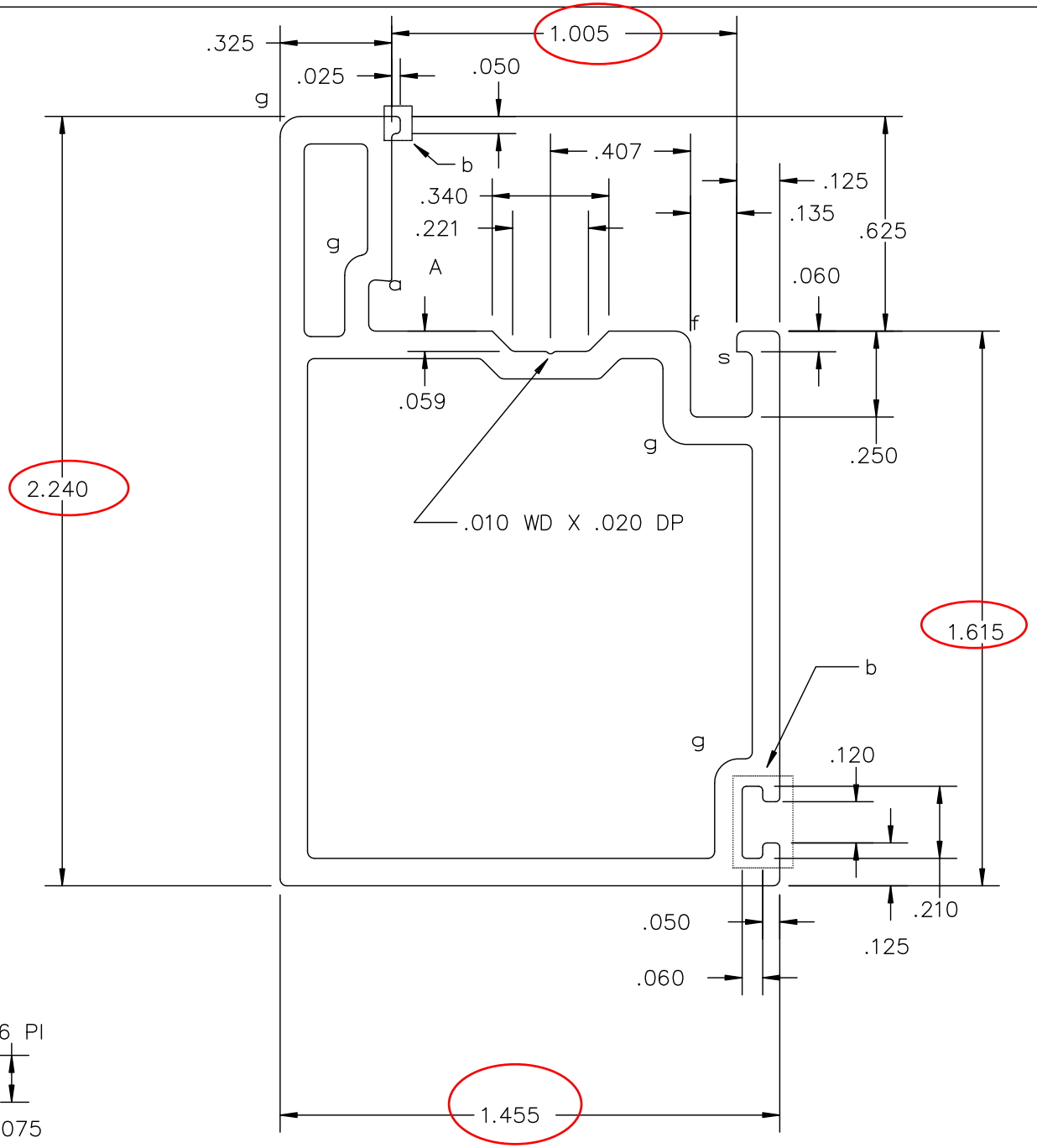
DATE: 13–FEB–98

TI TLE: SASH BOTTOM

RS1296

EXTERNAL WALL: 0. 080
I NTERNAL WALL: 0. 064
CORNER TYP: 0. 020R
WEI GHT: 0. 453 LB/FT

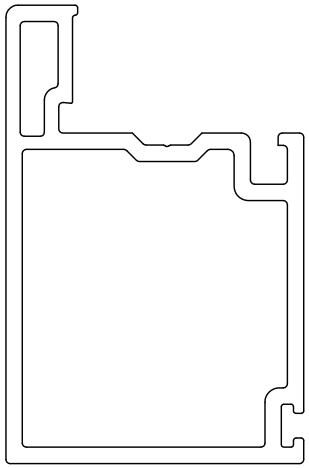
SCALE : 2: 1



a=0. 006R
b=0. 012R
c=0. 015R
d=0. 020R
e=0. 030R
f =0. 045R
g=0. 060R
s=sharp

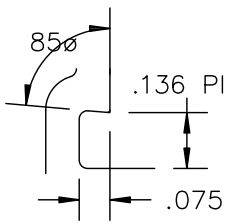
APPROVED
16–FEB–98
CYCLOI D DESI GNS

Report #: F0621-901-44
Date: 12/07/15
Verified by:
Intertek Architectural Testing



ACTUAL SI ZE

DETAI L A
SCALE: 2: 1

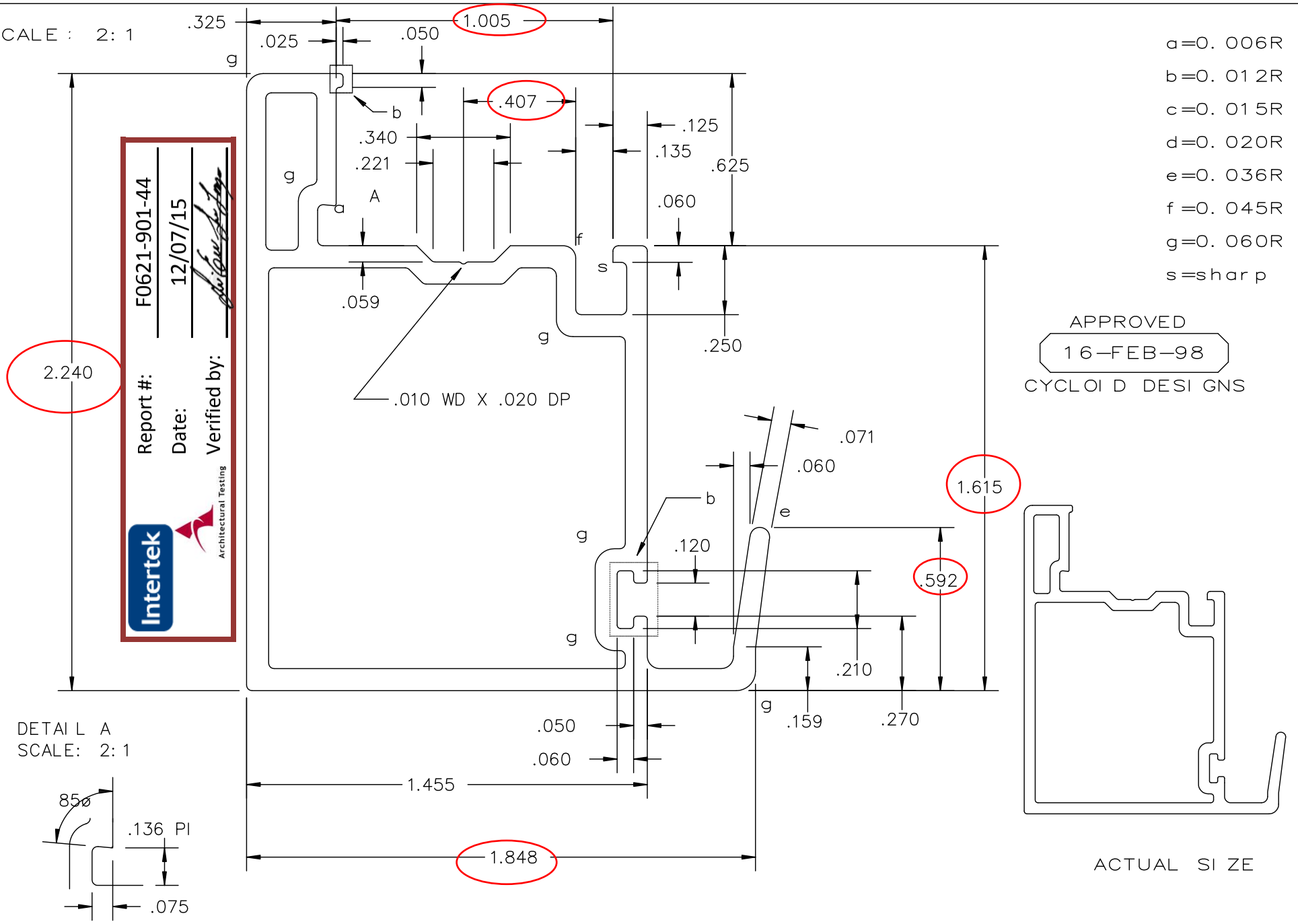


REV	DATE	REMARKS
1	01–18–98	DI M CHANGE: WAS . 124

FAB REF	308–F5D			FI T TO	305–D35	308–D18	308–D13
308–F5	308–F6			308–D15	291–D7		

CYCLOI D DESI GNS	DWG: 308–D11	DATE: 11–FEB–98	© 1998 COPYRI GHT ROYAL SI ERRA I NC SPARKS, NEVADA ALL RI GHTS RESERVED
TI TLE: SASH		RS1297	EXTERNAL WALL: 0. 080 I NTERNAL WALL: 0. 064 CORNER TYP: 0. 020R WEI GHT: 0. 381 LB/FT

SCALE : 2: 1



a=0. 006R
b=0. 012R
c=0. 015R
d=0. 020R
e=0. 036R
f =0. 045R
g=0. 060R
s=sharp

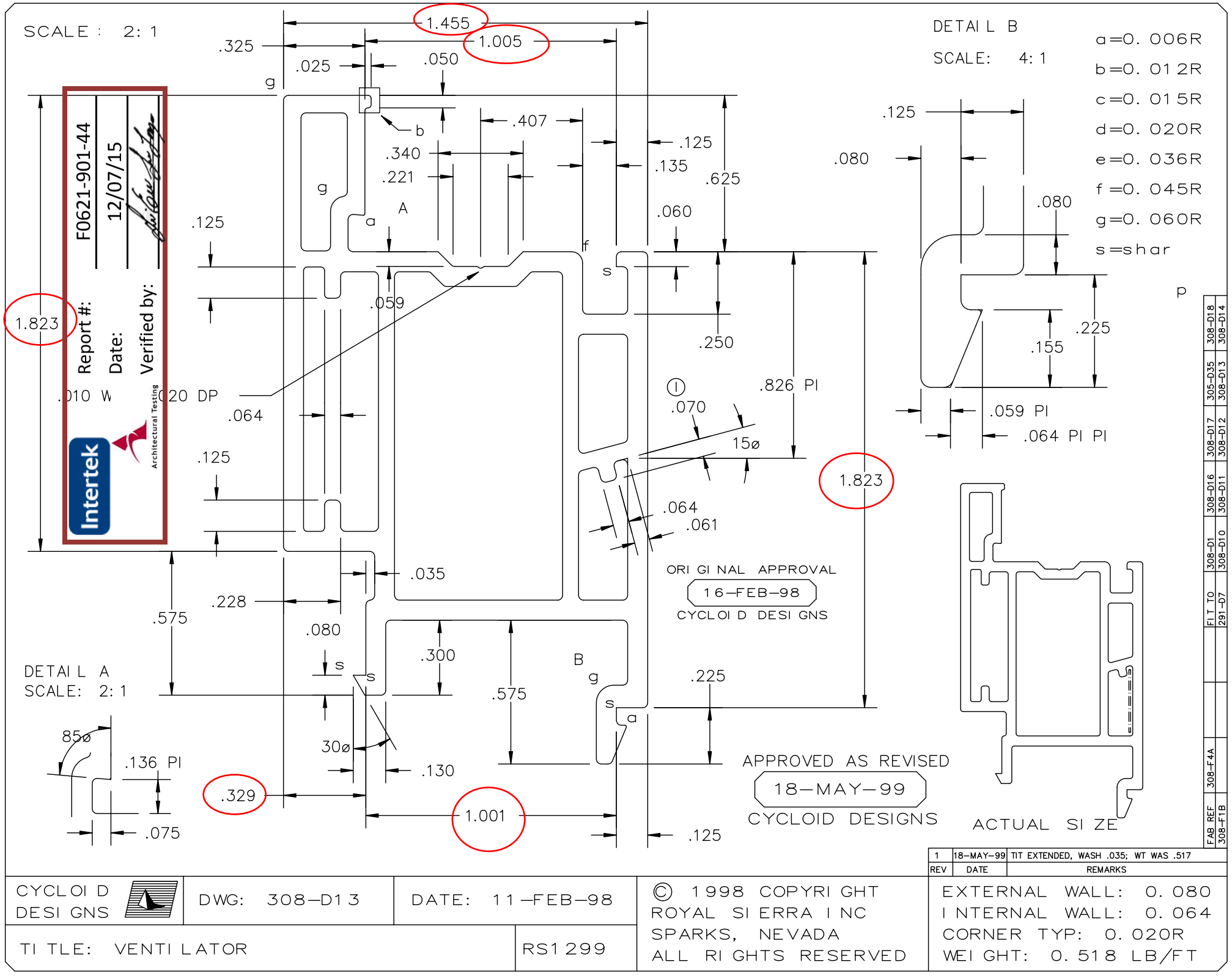
APPROVED
16–FEB–98
CYCLOI D DESI GNS

DETAI L A
SCALE: 2: 1

ACTUAL SI ZE

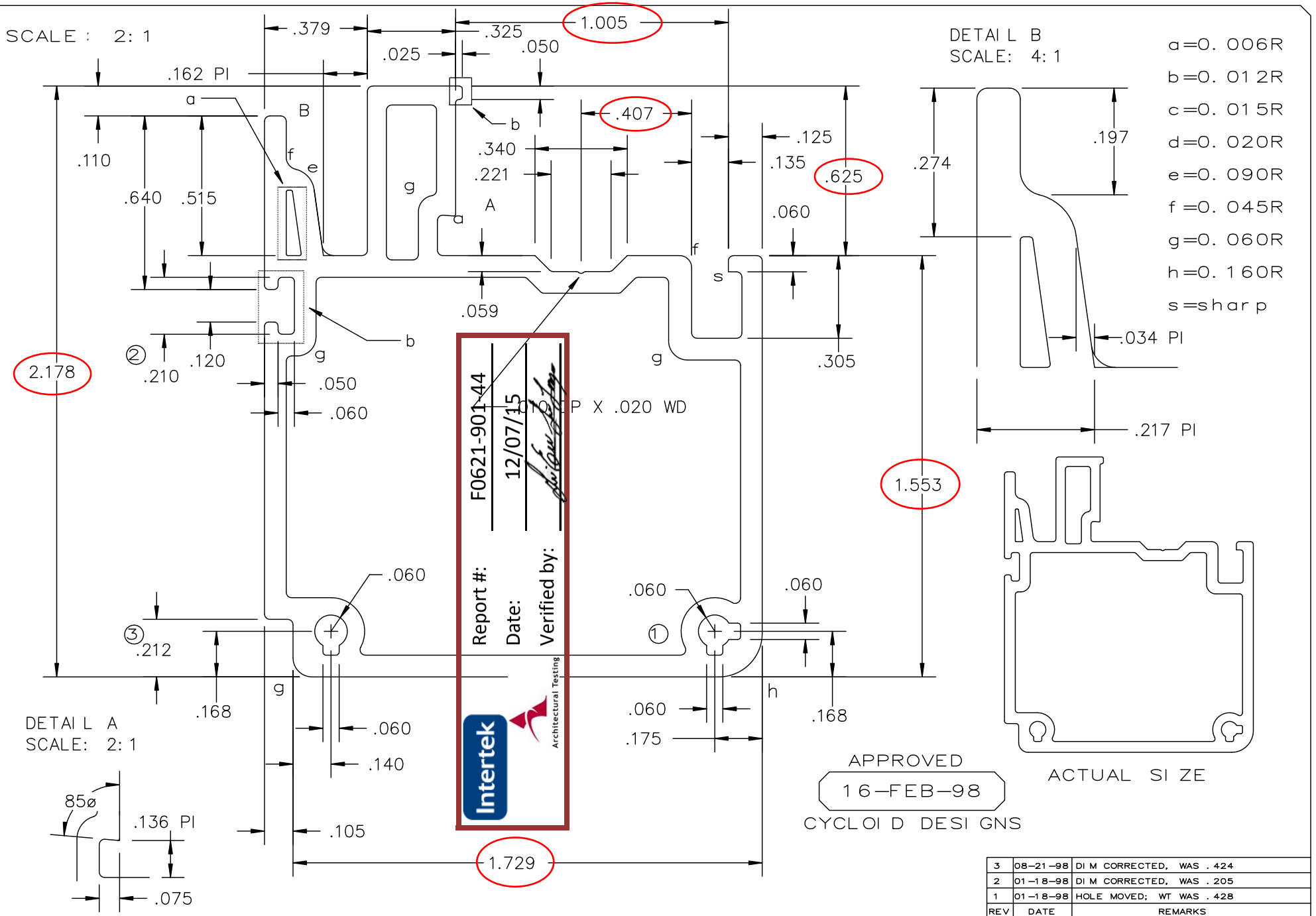
FAB REF				FI T TO	305–D35	308–D13	308–D18
308–F6				308–D15	291–D7		

CYCLOI D DESI GNS	DWG: 308–D12	DATE: 11–FEB–98	© 1998 COPYRI GHT ROYAL SI ERRA I NC SPARKS, NEVADA ALL RI GHTS RESERVED
TI TLE: I NTERLOCK	RS1298		EXTERNAL WALL: 0. 080 I NTERNAL WALL: 0. 064 CORNER TYP: 0. 020R WEI GHT: 0. 426 LB/FT



REV	DATE	REMARKS
1	18-MAY-99	TIT EXTENDED, WASH .035; WT WAS .517

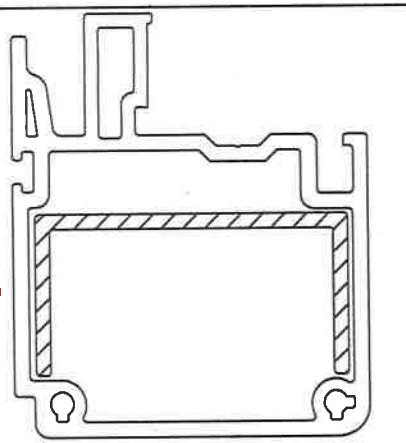
CYCLOID DESIGNS	DWG: 308-D13	DATE: 11-FEB-98	© 1998 COPYRIGHT ROYAL SIERRA INC SPARKS, NEVADA ALL RIGHTS RESERVED
TITLE: VENTILATOR	RS1299		EXTERNAL WALL: 0.080 INTERNAL WALL: 0.064 CORNER TYP: 0.020R WEIGHT: 0.518 LB/FT

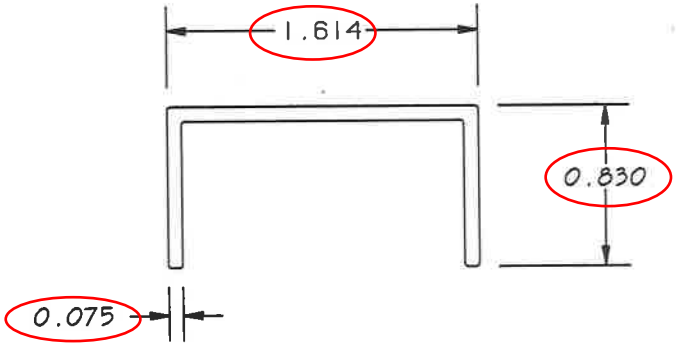


REV	DATE	REMARKS
3	08–21–98	DI M CORRECTED, WAS . 424
2	01–18–98	DI M CORRECTED, WAS . 205
1	01–18–98	HOLE MOVED; WT WAS . 428

FAB REF				FI T TO	305–D35	308–D18	308–D13
308–F1				308–D15	291–D7		

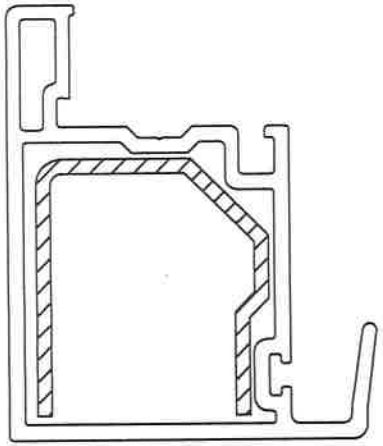
CYCLOI D DESI GNS	DWG: 308–D14	DATE: 11–FEB–98	© 1998 COPYRI GHT ROYAL SI ERRA I NC SPARKS, NEVADA ALL RI GHTS RESERVED
TI TLE: MULLI ON	RS1 300		EXTERNAL WALL: 0. 080 I NTERNAL WALL: 0. 064 CORNER TYP: 0. 020R WEI GHT: 0. 483 LB/FT

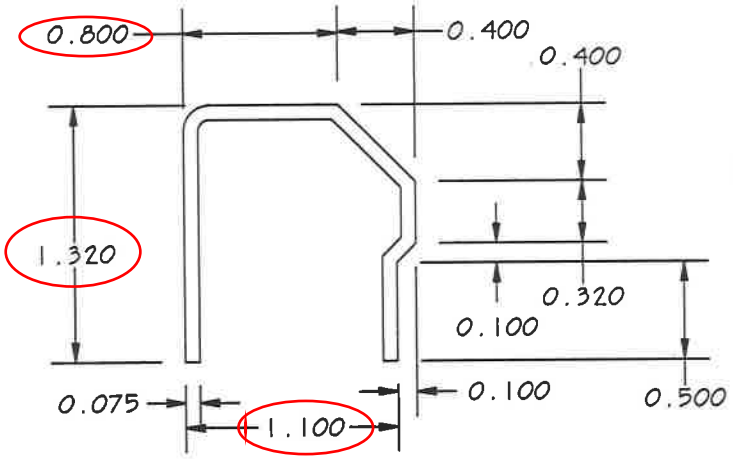




Iy-y-0.093in4

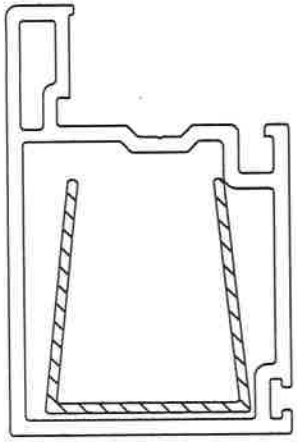
NS1042

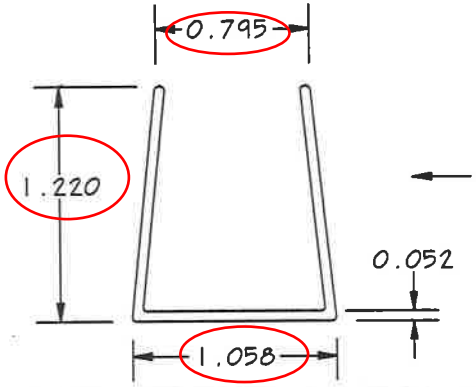




Iy-y-0.058in4

NS1011-2





NOTE: STEEL FOR AAMA STRUCTURAL TEST AND NFRC SIMULATIONS

← PROCESS FOR MOTRISE AND HANDLE HOLES

NS788 PUNCHED

Iy-y-0.029in4

Intertek Architectural Testing

Report #: F0621-901-44

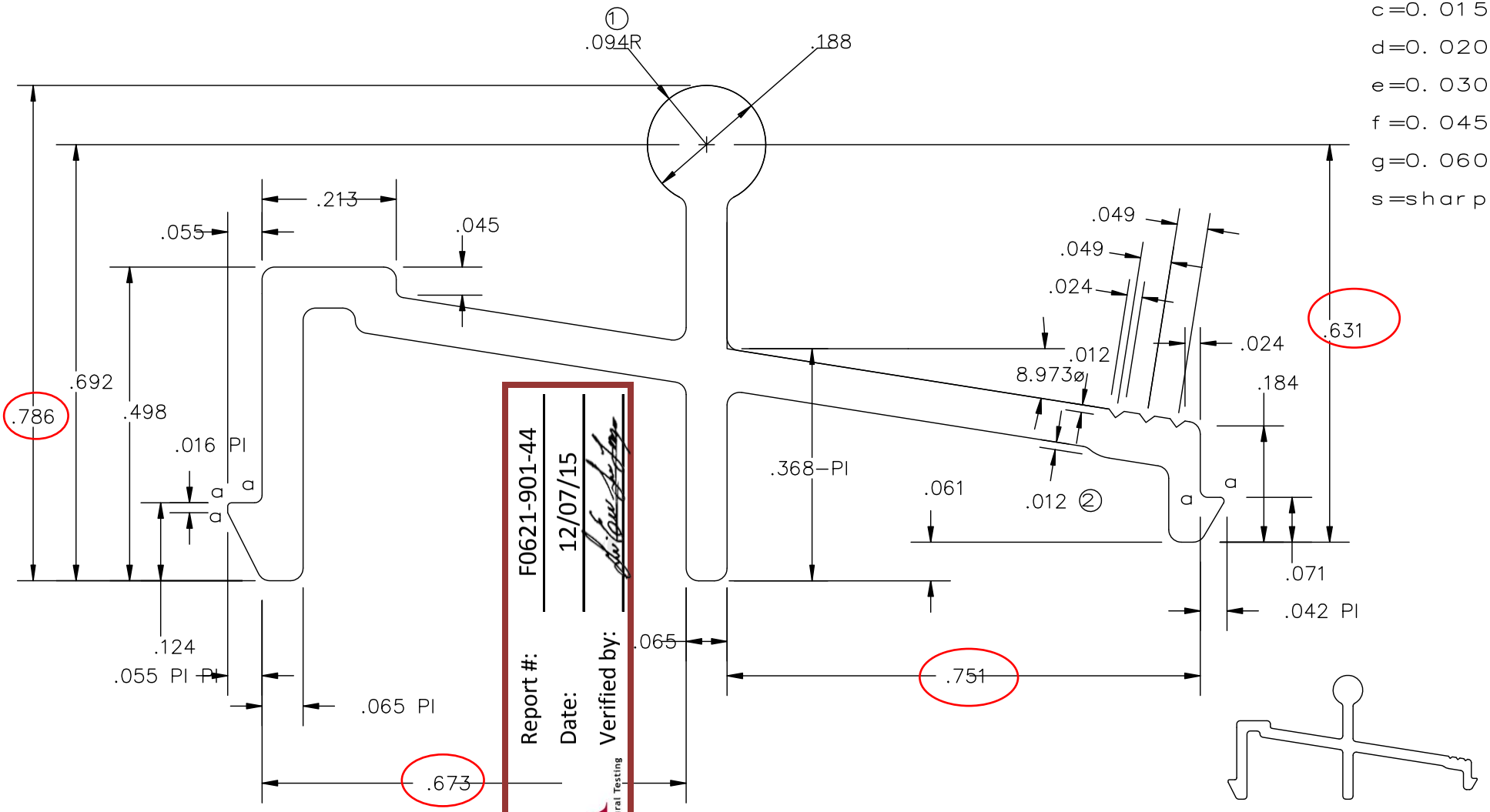
Date: 12/07/15

Verified by:

CYCLOID DESIGNS	DWG: 308-R1	DATE: 14-APR-98		EXTERNAL WALL: X.XXX INTERNAL WALL: X.XXX CORNER TYP. 0.XXXR WEIGHT: X.XXX LB/FT
TITLE: PROPOSED STEEL REINFORCING				

SCALE: 4: 1

a=0. 006R
b=0. 012R
c=0. 015R
d=0. 020R
e=0. 030R
f =0. 045R
g=0. 060R
s=sharp



ACTUAL SI ZE

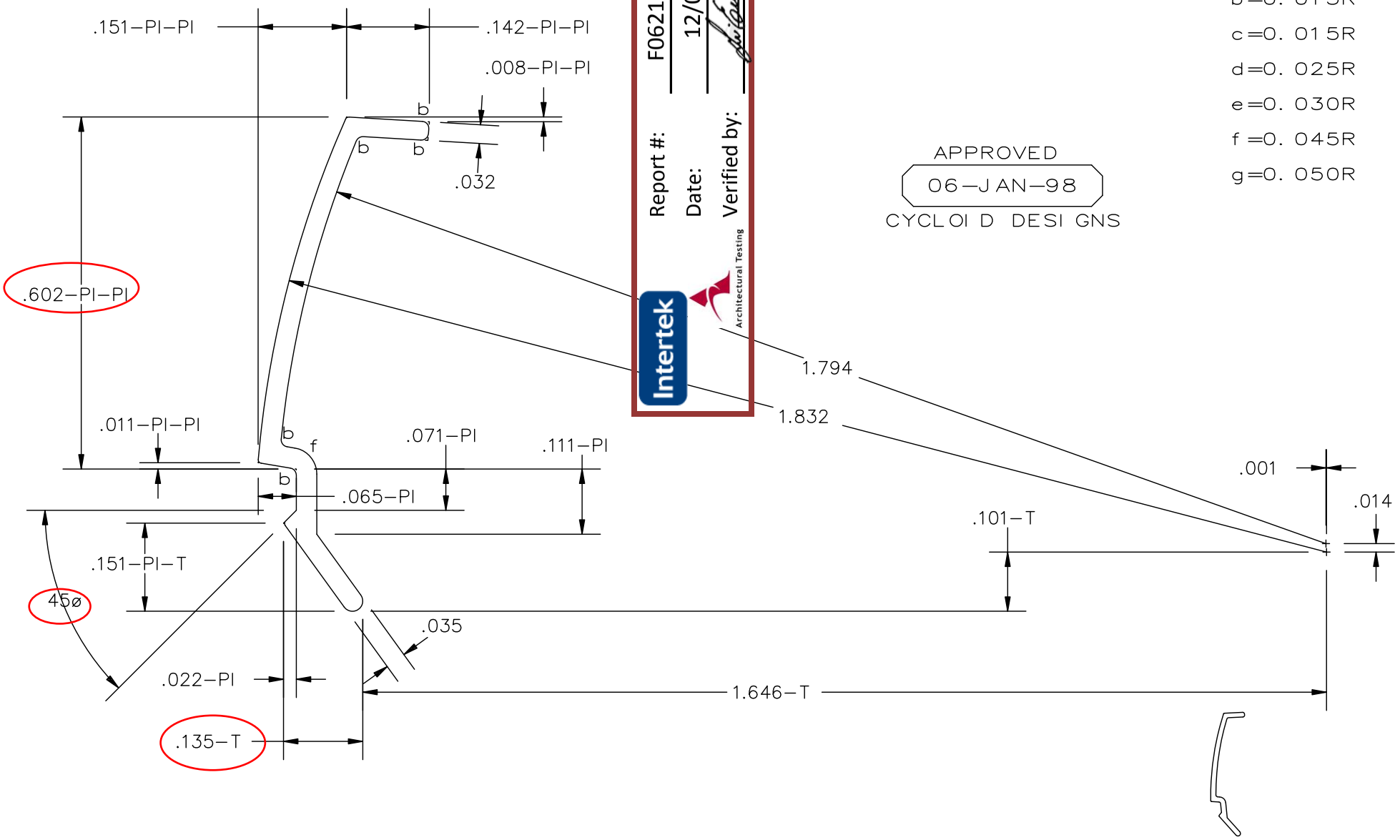
APPROVED
23–APR–98
CYCLOI D DESI GNS

REV	DATE	REMARKS
2	08–25–98	CORRECTED NOMI NAL WALL; ADDED DI M
1	04–23–98	DI A CHANGED; WAS . 210, WT WAS . 132

FAB REF				FI T TO	308–D1	308–D16	
XXX–XXX				308–D17			

CYCLOI D DESI GNS	DWG: 308–D19	DATE: 11–FEB–98	© 1998 COPYRI GHT ROYAL SI ERRA I NC SPARKS, NEVADA ALL RI GHTS RESERVED
TI TLE: TRACK	RS1 301		EXTERNAL WALL: ② 0. 065 I NTERNAL WALL: 0. XXX CORNER TYP: 0. 020R WEI GHT: 0. 128 LB/FT

SCALE: 4: 1



a=0. 006R
b=0. 01 3R
c=0. 01 5R
d=0. 025R
e=0. 030R
f =0. 045R
g=0. 050R

Report #: F0621-901-44
Date: 12/07/15
Verified by:

Intertek Architectural Testing

APPROVED
06–JAN–98
CYCLOI D DESI GNS

ACTUAL SI ZE

CYCLOI D DESI GNS	DWG: 305–D35	DATE: 02–JAN–97	© 1998 COPYRI GHT ROYAL SI ERRA I NC SPARKS, NEVADA ALL RI GHTS RESERVED	EXTERNAL WALL: 0. 035 I NTERNAL WALL: X. XXX CORNER TYP: 0. 006R WEI GHT: 0. 023 LB/FT
TI TLE: GLAZI NG BEAD: 3/4" GLASS		RS1 281		