

#### ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

#### **Rendered to:**

# DECEUNINCK NORTH AMERICA, LLC

SERIES/MODEL: 3100 Sashlite PRODUCT TYPE: PVC Sliding Glass Door

Title	Summary of Results
Rating	SGD-R30 96 x 80
Operating Force	18 lbf max.
Air Infiltration	$0.13 \text{ cfm/ft}^2$
Water Resistance Test Pressure	4.5 psf
Uniform Load Structural Test Pressure	±45.0 psf
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 61565.01-122-47 for complete test specimen description and data.

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#### ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

#### Rendered to:

## DECEUNINCK NORTH AMERICA, LLC 351 North Garver Road Monroe, Ohio 45050

Report No.: 61565.01-122-47

Test Date: 12/13/05

And: 12/14/05 Report Date: 02/23/06 Expiration Date: 12/14/09

**Project Summary**: Architectural Testing, Inc. (ATI) was contracted by Deceuninck North America, LLC to witness testing on a Series/Model 3100 Sashlite, PVC sliding glass door at the Deceuninck test facility in Oakland, New Jersey. The sample tested successfully met the performance requirements for a SGD-R30 96 x 80 rating. Test specimen description and results are reported herein.

**Test Specification**: The test specimen was evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.* 

#### **Test Specimen Description:**

Series/Model: 3100 Sashlite

**Product Type:** PVC Sliding Glass Door

**Overall Size**: 7' 11-3/4" wide by 6' 7-1/2" high

**Panel Size (2)**: 3' 11-3/4" wide by 6' 5" high

**Daylight Opening Size**: 3' 6-7/8" wide by 6' 0-1/8" high

**Screen Size**: 3' 11-5/8" wide by 6' 5-3/4" high

**Overall Area**: 52.9 ft<sup>2</sup>

Finish: All vinyl was white.



**Test Specimen Description**: (Continued)

**Glazing Details**: Both the operable and fixed lites were glazed with two sheets of 1/8" thick clear, tempered glass in a Sashlite configuration. Each piece of glass was set against a bed of Sashseal glaze on a glazing tower extruded with the panel members and was secured with snap-fit vinyl glazing beads.

## Weatherstripping:

<u>Description</u>	Quantity	Location
0.210" high by 0.187" backed polypile with center fin	4 Rows	Interior and exterior track around perimeter
1" by 1" by 0.410" high polypile dust plug	2	Ends of interlock on fixed meeting stiles

**Frame Construction**: The frame was constructed of extruded vinyl with mitered and welded corners. The fixed panel was secured to the frame with #8 x 1-1/2" long screws through the jamb stile into the frame jamb located 12" from the sill and 12" on center.

**Panel Construction**: The panel was constructed of extruded vinyl with mitered and welded corners.

**Screen Construction**: The screen frame was constructed of extruded aluminum members with mitered and plastic keyed corners. The corners were secured with two #6 x 5/8" long screws and two #8 x 1/2" screws. One of the #8 screws also secured the single roller assembly at each bottom corner. The screen mesh was secured with a flexible vinyl spline.

#### Hardware:

<u>Description</u>	<b>Quantity</b>	Location
Dual metal roller assembly	2	2" from end of operable panel
Handle with sweep lock	1	38-1/2" from top of operable panel
Single metal roller assembly	2	Ends of screen bottom rail



**Test Specimen Description**: (Continued)

#### **Drainage**:

<u>Description</u>	<b>Quantity</b>	Location
1/4" high by 1" long weephole	2	3" from jamb (interior sill track)
1/4" high by 1" long weephole	2	3" from jamb (exterior sill track)
1" wide by leg height	2	3" from jamb, screen track exterior leg

**Reinforcement**: Aluminum reinforcement was utilized in all panel members (Part No. A031h003) in both panels.

**Installation**: The door was installed into a Spruce-Pine-Fir wood buck with #12 x 2" screws spaced 6" from the corners and 16" on center at the head and jambs. Blind stops were utilized on the interior and were secured with brad nails 12" on center. The exterior and interior perimeter was sealed with urethane.

**Test Results**: The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	Results	Allowed
2.2.19.5.1	Operating Force Initiate motion Maintain motion	20 lbf 18 lbf	30 lbf max. 20 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	$0.13 \text{ cfm/ft}^2$	$0.3 \text{ cfm/ft}^2 \text{ max.}$

**Note** #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2-97 for air infiltration.

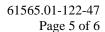
2.1.3	Water Resistance per ASTM E 547 (with and without screen)	See Note #2
2.1.4.1	Uniform Load Deflection per ASTM E 330	See Note #2
2.1.4.2	Uniform Load Structural per ASTM E 330	See Note #2

**Note #2**: The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance".



**Test Results**: (Continued)

<u>Paragraph</u>	Title of Test - Test Method	Results	Allowed
2.2.19.5.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs	7	
	Lock stile Meeting stile	0.03"/6% 0.03"/6%	0.50"/100% 0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.03"/6%	0.50"/100%
	Bottom rail	0.03"/6%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per AS	ГМ F 842	
	Type: A	Grade: 10	
A2.1	Disassembly test	No entry	No entry
A2.4.2	Test A1	No entry	No entry
A2.4.3	Test A2	No entry	No entry
A2.4.4	Test A3	No entry	No entry
A2.4.5	Test A4	No entry	No entry
A2.4.6	Test A5	No entry	No entry
A2.4.7	Test A6	No entry	No entry
A2.4.9	Lock/Panel Manipulation Test	No entry	No entry
Optional Perfo	rmance		
4.3	Water Resistance per ASTM E 5 (with and without screen)	547	
	4.5 psf	No leakage	No leakage
4.4.2	Uniform Load Structural per AS (Permanent sets reported were ta (Loads were held for 10 seconds	ken on the meeting s	stile)
	45.0 psf (positive)	0.16"	0.30" max.
	45.0 psf (negative)	0.28"	0.30" max.
	- · · · ·		





Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

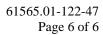
For ARCHITECTURAL TESTING, INC:

Steven M. Urich, P.E. Senior Project Engineer

Joseph A. Reed, P.E. Director - Engineering Services/Product Testing

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Attachments (pages):
Appendix-A: Drawings (11)





# **Revision Log**

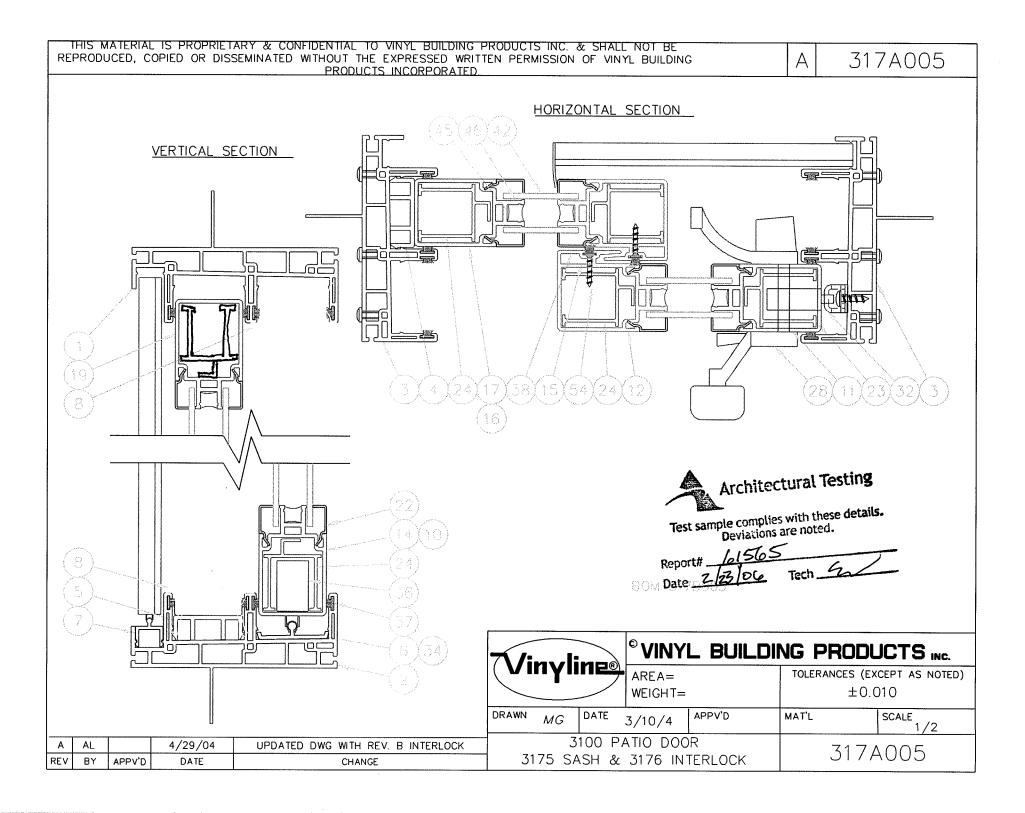
<u>Rev. #</u>	<b>Date</b>	Page(s)	Revision(s)
0	02/23/06	N/A	Original report issue

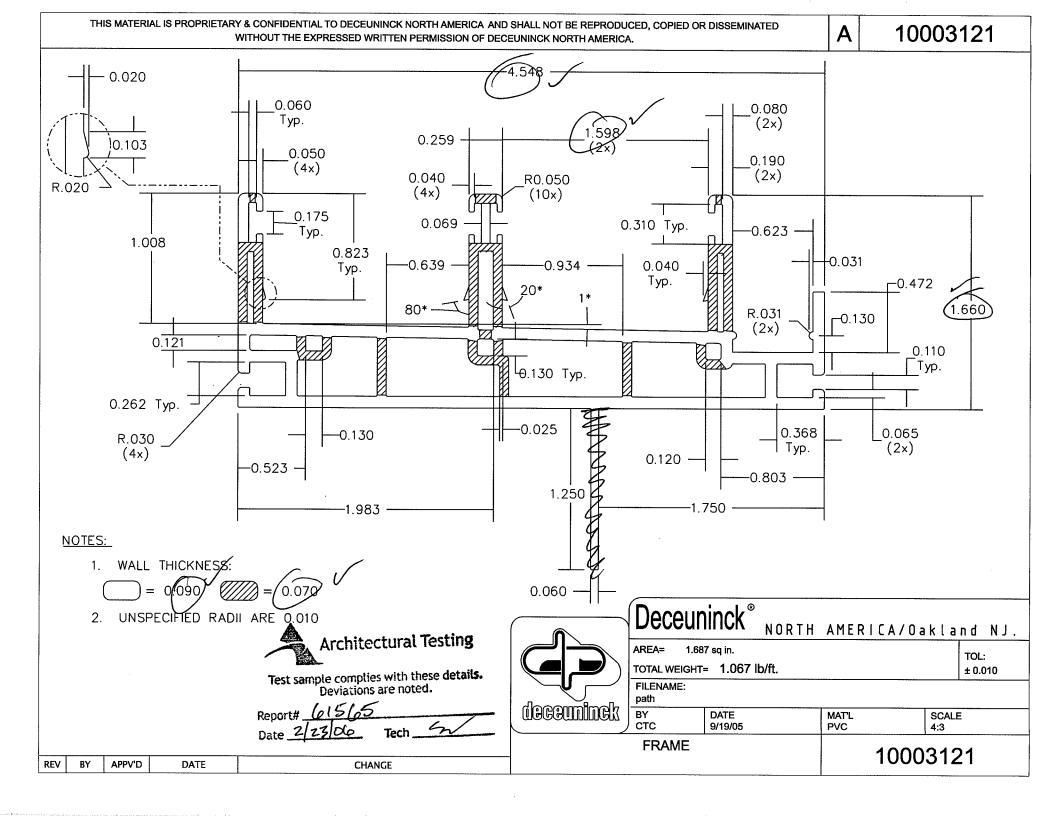


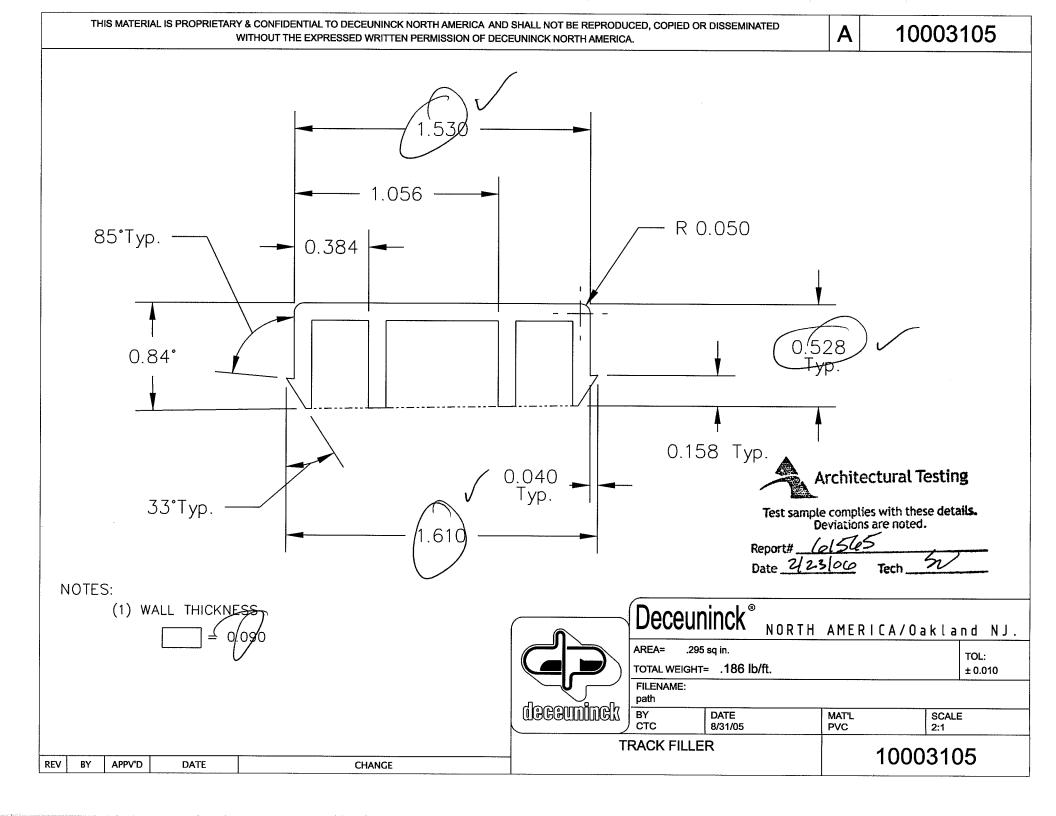
Appendix A

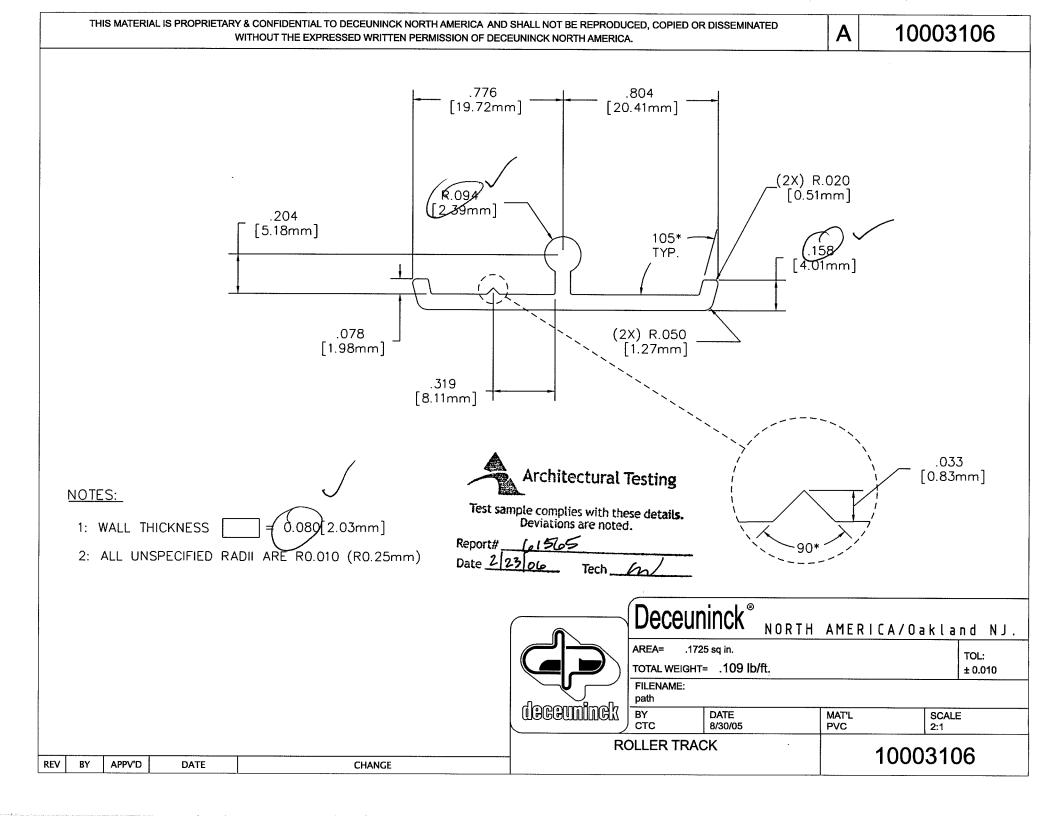
**Drawings** 

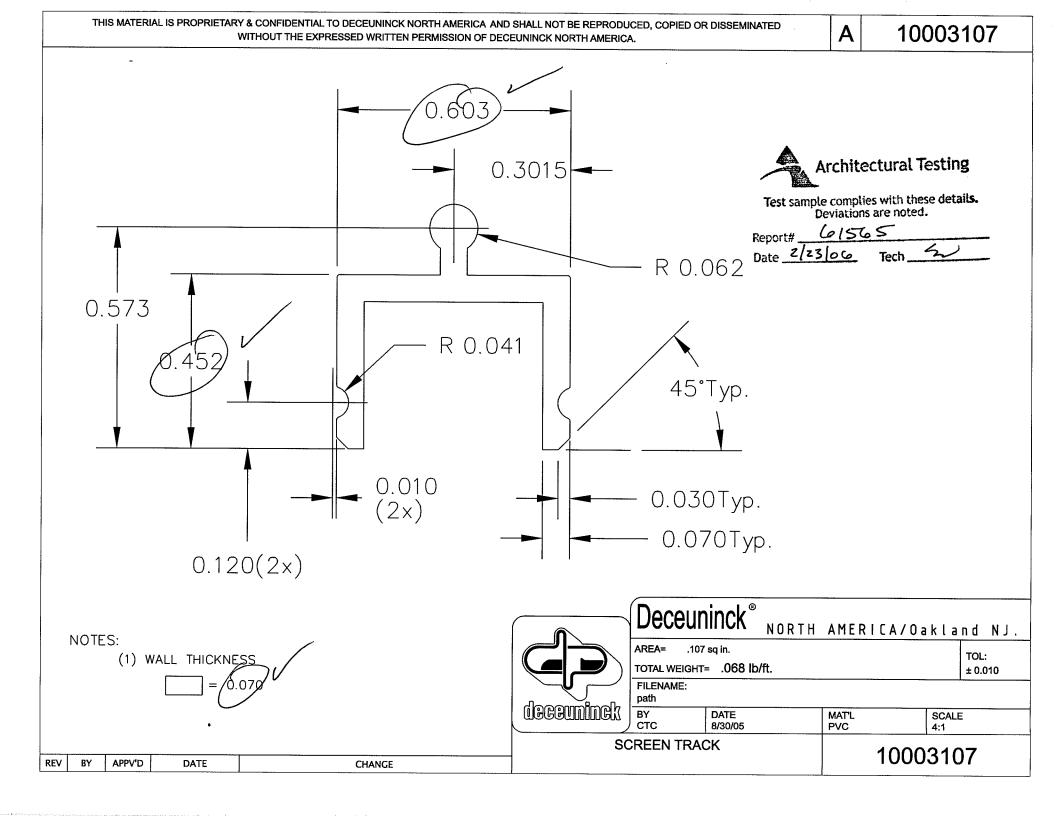
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DISSEMINATED WITHOUT THE EXPRESSED, WRITTEN PERMISSION OF DECEUNINCK NORTH AMERICA.											
	EMBLY DRAWI	NG 371A005	BILI	L OF MATERIAL	<u>S 8</u>	SOURCE	ES				
ITEM	NAME	SIZE	_	PROCESS.NO.		ITEM		SIZE	REQ	PROCESS.NO	P/N OR MATERIAL/SOURCE
1	Head	····	1		10003121 / DNA		Roller Trk. Cap	8'	1		8081201/Nichols-Homesh.
2	Sill		1	<del></del>	10003121 / DNA	36	Rollers		2	1" Wheel	D4020S/F4312 / A-1 Components
3	Jambs		2	031P004	10003121 / DNA	37	Wstrp.Frame	0.15	A/R	1502	27045WHWF (for white)/Amesbury
4	Jamb Filler	6"	3		10003105 / DNA	38	Wrstrp. Sash	0.250	A/R	2502	27045WHWF (for white)/Amesbury
5	Sill Filler		1	031P020	10003105 / DNA	39	Draft Plug	1 1/4" x 1 3/8" sq.	2		P5035W 1-1/4"long / Ultrafab
6	Door Track	***************************************	1		10003106 / DNA	40	Setting Blocks		A/R		
7	Screen Track		1	031P010	10003107 / DNA	41	Plug Buttons	3/8"	12		9946/Ashland
8	Sill Cover		2	031P038	10003104 / DNA	42	GLASS	1/8"	4		
9	Door stop		2	031P084	10003104 / DNA	43	Silicone Glazing		A/R		Silglaze II SCS2811-D1/GE; Pecora 896
10	Moving Panel:			*******		44	DESICCANT MA	TRIX	A/R		
11	Lock Stile		1	031P132	10003175 / DNA		ADHESIVE		A/R		
12	Interlock Rail		1		10003176 / DNA	46	Optional Item:		A/R	<u></u>	1707
13	Top Rail		1	031P133	10003175 / DNA	47	Rollers		2	1" Wheel	S3792SSS / A-1 Components
14	Bottom Rail		1		10003175 / DNA	48	Misc. Screws:		<del>-</del>		Correcce / // Components
15					THE STATE OF THE S	49		#12 x 3"	18		Phil Fl.Hd.wood 4/10 SS
16	Fixed Panel:					50		#8A x 3/4"	4		Phil Pan Hd painted
17	Side Rail		1	031P135	10003175 / DNA			#8A x 1/2"	4		Phil Pan Hd. 410SS
18	Interlock Rail		1	031P135	10003176 / DNA	52	Alum. to panel	#8A x 1"	12		Phil Flt. Hd. 410SS
19	Top Rail		1	031P133	10003175 / DNA	53	Draft Plug	#6A x 1/2"	4		Phil F Hd paint, self thread.
20	Bottom Rail		1	031P133	10003175 / DNA	54	Interlock 3110	#8A x 1/2"	A/R		Phil Pan Hd. 410SS
21						55					
22	Glazing Stop		8	031P136	10003177 / DNA	56	Cor.Gasket Frame		2		G-A306-L1-G143/H-O Prod.
23	Aluminum Insert		1	031P011	S20214/Keymark/Lock Rail	57	Cor.Gasket Nail Fin	<b>A</b>	2		G-A302-L1-G144/H-O Prod.
24	Aluminum Insert		A/R	031P018	Top/Bottom Rails	58		4	2	rchitect	ural Testin <b>g</b>
25						59					
26	Handle Set		1		756 / Sash Controls	60		Tost	sampl	e complies v	vith these details.
27	Outside Pull		1		684 / Sash Controls	61		1631	C	eviations ar	e noted.
	Inside Pull		1		2057 / Sash Controls	62	Lock Screws:	D-n-+	,,	101565	(m)
29	Keeper		1		2315 / Sash Controls	63	Lock screws	FH #10x1.750	2	2/23/06.	Bhi Pan Hd. 410SS
30	Keeper Shim		1		1947 / Sash Controls	64	Keeper screws	PH #10x0.625	2		Phil Pan Hd. 410SS
31	Cylinder		1		288 / Sash Controls						
32	Mortise Lock		1		555 / Sash Controls	h Controls SERIES 3100 PATIO DOOR Rev. 10/26/04 ~CC					
33						WELDED FRAME, PANELS. 3175 SASH					
34	Roller Trk. Cap		6'		8081069/Nichols-Homesh.					317B005	

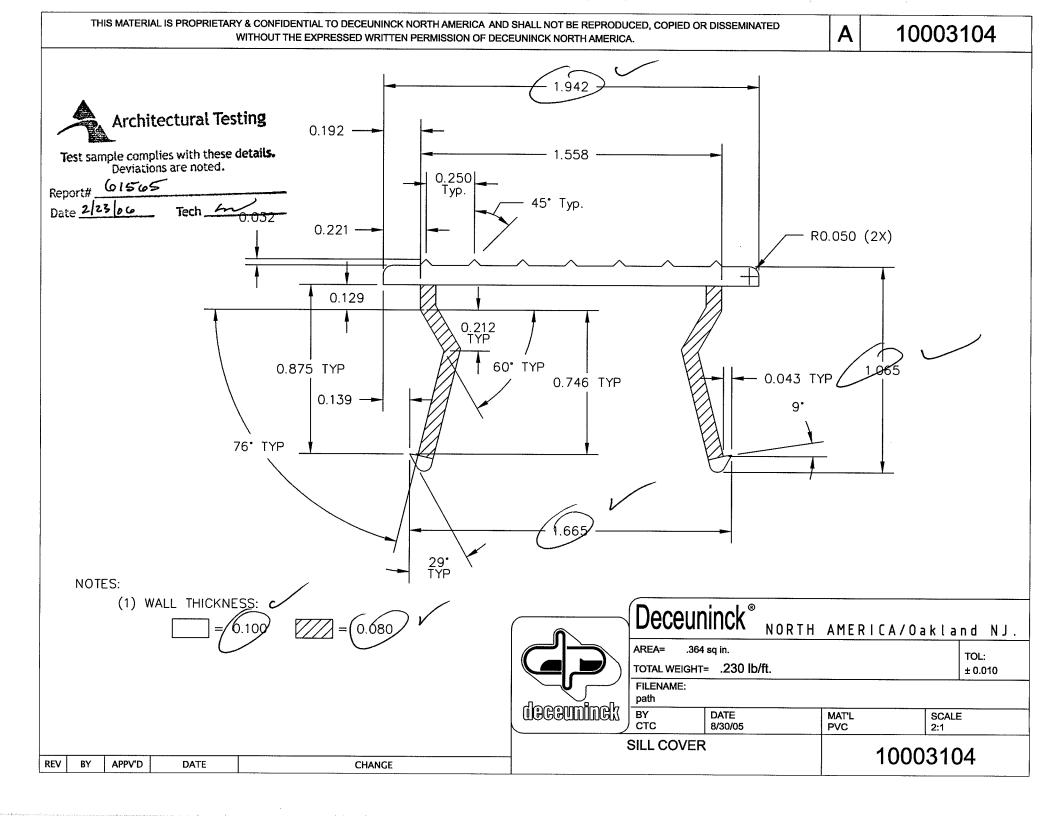


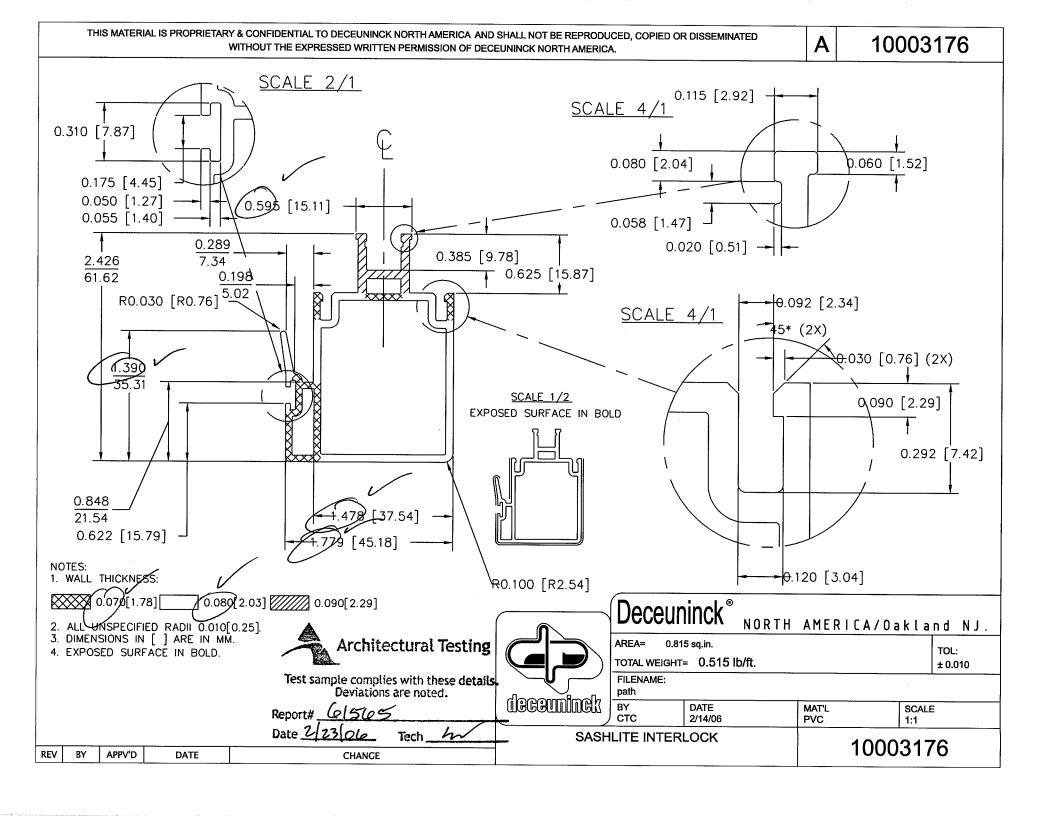




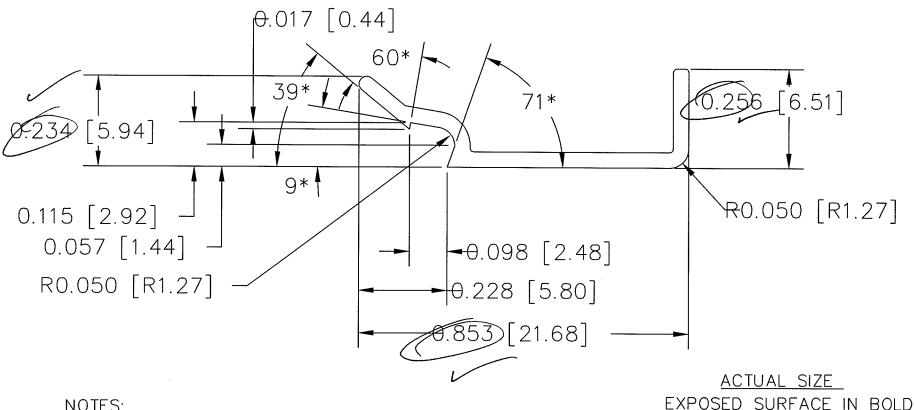






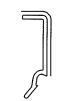


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## NOTES:

- WALL THICKNESS 0.040[1.02].
   UNSPECIFIED RADII 0.010[0.25].
   DIMENSIONS IN [] ARE IN MM.

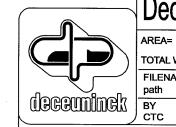




# **Architectural Testing**

Test sample complies with these details. Deviations are noted.

Report#



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NORTH AMERICA/Oakland NJ.

0.047 sq.in. TOTAL WEIGHT= 0.030 lb/ft.

FILENAME: path

BY CTC DATE 2/14/06 MAT'L PVC

**SCALE** 4:1

TOL:

± 0.010

**GLASS STOP** 

10003177

REV APPV'D DATE CHANGE

