ITEM 68A/68B

EXHIBITS
A-E

APPLICATION FOR CERTIFICATE OF APPROPRIATENESS

CITY OF DES MOINES
HISTORIC PRESERVATION COMMISSION

(To be filled out by the applicant) File Number 20-

Address of the Property 826 - 18th Street

Owner of the Property James C. Conlin

Phone Number: Attorney: 515-242-2452 Owner: 515-246-8016

Applicant's Name, Address and Phone Number (if different from owner) 319 7th St., Des Moines, IA, 50309

Current use of the property multi-family residential

Approximate date structure was built if known 1888

Note the year any major alterations were completed and indicate source of data
Prior to 1920 - full front porch added
Prior to 1957 - footprint of building changed to current footprint, which includes addition and conversion from single-family to multi-family
See attached Exhibit C

Applicant's Signature

5/31/16
Date

To be filled out by staff:

Date of Historic Preservation Commission meeting _____

Received by _____ Date _____

Your application will be placed on the agenda for the next Commission meeting if it is received two weeks prior to the next regularly scheduled meeting date.
Meetings are scheduled for the third Wednesday of each month.

NOTE: You are hereby advised that no work should commence on the above property until such time as the Historic Preservation Commission has issued a Certificate of Appropriateness

To be filled out by the Applicant
Separately describe each job to be performed on the exterior of the structure and/or property.

1a. What is being done? 1b. What materials are being used? 1c. What changes in appearance will there be?

SEE ATTACHED DESCRIPTION AND SUPPORTING DOCUMENTS

2a. What is being done? 2b. What materials are being used? 2c. What changes in appearance will there be?

3a. What is being done? 3b. What materials are being used? 3c. What changes in appearance will there be?

Attach drawings as described on page 2 to illustrate above described changes.

To be filled out by the Applicant (continued)
Separately describe each job to be performed on the exterior of the structure and/or property.

4a. What is being done? 4b. What materials are being used? 4c. What changes in appearance will there be? _____

5a. What is being done? 5b. What materials are being used? 5c. What changes in appearance will there be? _____

6a. What is being done? 6b. What materials are being used? 6c. What changes in appearance will there be?

Attach drawings as described on page 2 to illustrate above described changes.

Attachment to Application for Certificate of Appropriateness (826-18th Street):

Applicant seeks to replace four windows on the south side of the property. The current windows are painted double-hung windows with an aluminum storm covering, and they are not able to be repaired. A photo of the four windows sought to be replaced are attached hereto as Exhibit A. The windows being replaced do not have any historical significance and are located in the part of the property that was an addition sometime between 1920 and 1957. See Exhibit C (1901, 1920 and 1957 maps showing building footprints). The new windows will be a vinyl replacement window made by Vector (formerly known as Vinylite) that are the same shape and size of the opening of the current windows. Similar Vector windows have been installed in other parts of the property and thus, the new window will exactly match many of the other windows in the property. See Exhibit B, showing the newer windows already installed. There will be no change in appearance from the current window other than in the color of the window, but color is not one of the items that the Commission is to consider in its review of an Application for Certificate of Appropriateness. Copies of information regarding the Vector windows sought to be installed are attached hereto as Exhibits D and E. Exhibits E and F provide supporting information for the energy efficiency of the Vector windows. Under City Ordinance section 58-31(c), the Commission is required to be "sympathetic to proposals using energy saving modifications."

The property at 826-18th Street underwent significant changes prior to Applicant's ownership of the property and prior to the designation of Sherman Hill as a historic district. The property no longer holds any historic significance due to these significant changes. The footprint was substantially altered, including a significant addition prior to 1957 which substantially changed the look of the property and removed essentially all of its historic value. See Exhibit C. Prior to Applicant's ownership of the property, the entire house was sided with steel siding which remains on the house today. Such siding further removed any historic value the property may have. According to Des Moines City Code section 58-31(c), the Commission "shall endeavor to approve proposals for alteration of structures of little historical, architectural and cultural value, except when such a proposal would seriously impair the historical values and character of the surrounding area." There is no evidence that the installation of vinyl windows in the non-original, steel-sided portion of this property would "seriously impair" the surrounding area. In fact, the prior installed vinyl windows in the property have had no impact on the historical values and character of the surrounding area. See Exhibit G - Opinion Letter of Nelsen Appraisal Associates, Inc.

The values and character of the surrounding area would not be impacted, because there are a number of properties in Sherman Hill that have or appear to have vinyl windows or other window materials that are not wood. This includes, but is not limited to, the following properties:

Exhibit No.	Property Address	Description
H	755-20th Street	Large white vinyl window on side porch
I	717-17th Street (Pleasant Court Apts.)	White vinyl windows throughout
J	737, 727 and 707-18th Street (Sherman	White vinyl windows at

	Hill Coop Housing Ass'n)	least on basement level
K	840-17th Street	Vinyl windows
L	1939 Leyner	Vinyl windows
M	919-18th Street	Vinyl windows
N	920-18th Street	Vinyl windows
O	736-20th Street	Vinyl or metal windows
P	840-18th Street	Vinyl windows
Q	714-20th Street	White vinyl windows in garage built in 2008
R	718-18th Street	White vinyl windows
S	846-19th Street	Metal windows on front porch area
T	824-18th Street	Metal windows
U	1718 Crocker Street	Metal windows
V	611 – 16th Street (Murillo Flats)	Vinyl windows (white in some locations)

This list does not include the properties where the Commission directly approved and issued a Certificate of Appropriateness for vinyl windows. The properties that were given a Certificate to install vinyl windows were also multi-family properties:

Exhibit No.	**Property Address**	**Description**
W	1913 Pleasant Street	Granted Certificate on September 17, 2003 to replace several windows with vinyl; replacement windows were white vinyl
X	1917 Pleasant Street	Granted Certificate on September 17, 2003 to replace several windows with vinyl; replacement windows were white vinyl
Y	713-20th Street	Granted Certificate on September 17, 2003 to replace several windows with vinyl; replacement windows were white vinyl
Z	649-651 – 20th Street	Granted Certificate on May 12, 2005 to replace 9 of 40 windows with vinyl to match existing 31 windows that were already replaced with vinyl

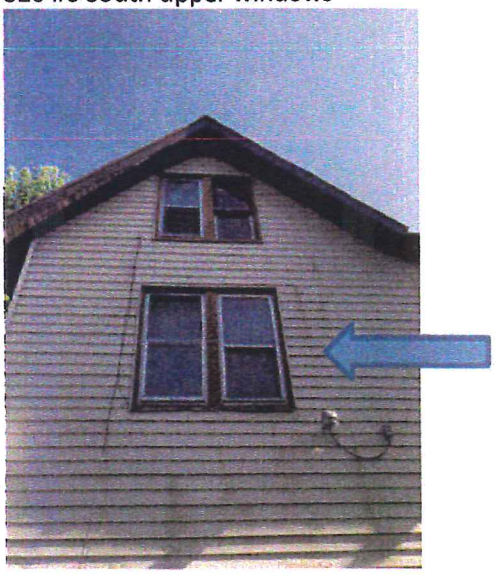
The fact that the value of this property or surrounding properties would not be adversely impacted by the installation of vinyl windows is bolstered by the fact that all of these homes have not decreased in value since the installation of the vinyl windows. Rather, it is properties in Sherman Hill that are dilapidated and not being cared for or updated at all (regardless of whether the windows are wood or vinyl) that adversely impact property values. There are a number of properties in Sherman Hill that drive down property values due to their unkempt nature. See Exhibit AA.

In addition, there is no prohibition against the use of vinyl in a historic district. In fact, in Preservation Brief No. 8, the National Park Service indicated that it would be acceptable to cover an entire historic residential building in aluminum or vinyl siding if (1) the existing siding is so deteriorated or damaged that it cannot be repaired; (2) the substitute material can be installed without reversibly damaging or obscuring the architectural features and trim of the building; and (3) the substitute material can match the historic material in size, profile and finish. The Brief goes onto state that if the aluminum or vinyl is being used to replace non-historic siding, then only the first two conditions need to be met to proceed with the new aluminum or vinyl siding. Although this Brief deals with siding, it would be non-sensical to say that an entire house could be covered in aluminum or vinyl under certain circumstances, but windows could not be replaced with vinyl under those same conditions. The windows sought to be replaced in this application are not original, historic windows, and they meet the first two conditions identified in the Brief. First, the existing windows are so damaged or deteriorated that they cannot be repaired. Second, the windows can be installed without reversibly damaging or obscuring the architectural features and trim of the building. The portion of the property where the windows are being installed does not have any architectural features and thus, the replacement of the windows are not damaging or obscuring such features. Accordingly, there is nothing in the design guidelines or Standards for Rehabilitation that prohibits the installation of vinyl windows in Sherman Hill. This is further bolstered by the fact that under these same guidelines and Standards, this Commission previously affirmatively approved the installation of vinyl windows. See Exhibits W-Z.

Existing Windows at 826 - 18th that need replaced immediately

826 # 3 South Lower window

826 #6 South upper windows



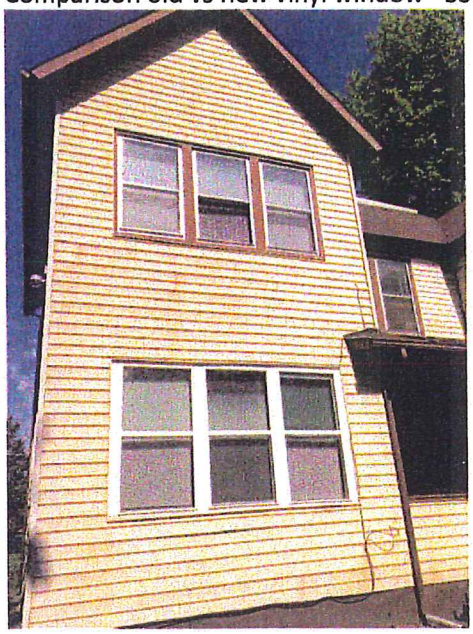
EXHIBIT

A

PENGAD 800-631-6989

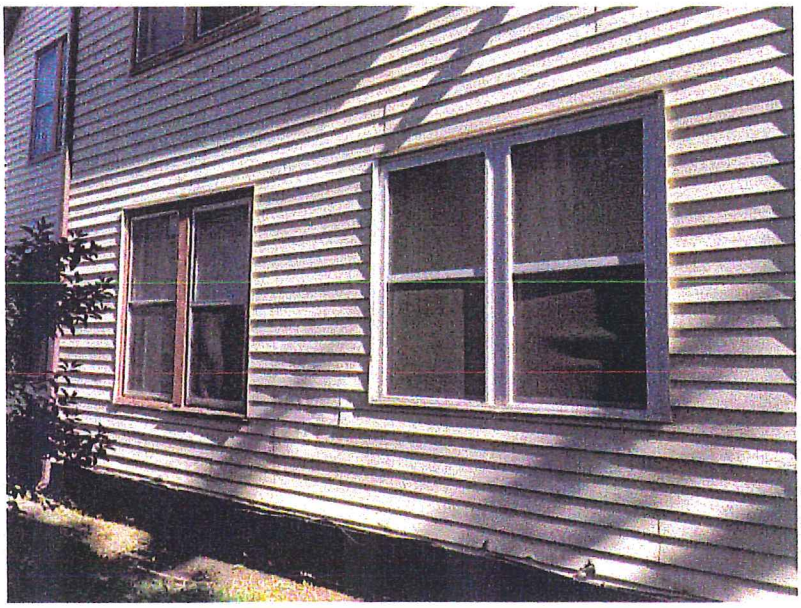
Examples of old windows next to new vinyl windows at 826

Comparison old vs new vinyl window - South facing



Old Windows

New Windows



Old Windows

New Windows

EXHIBIT

B

PENGAD 800-631-6989

826 18th ST. YR: 1901

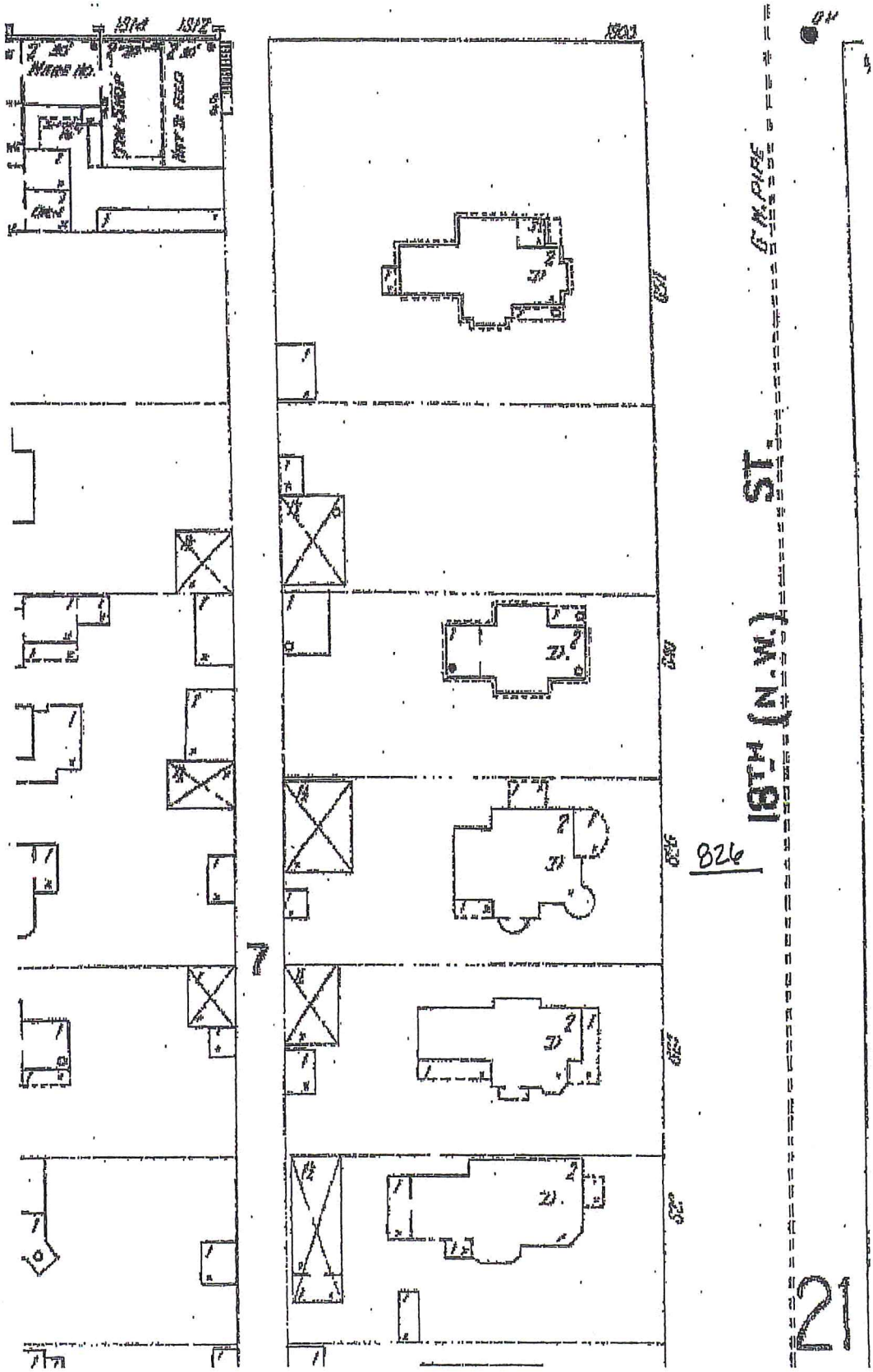
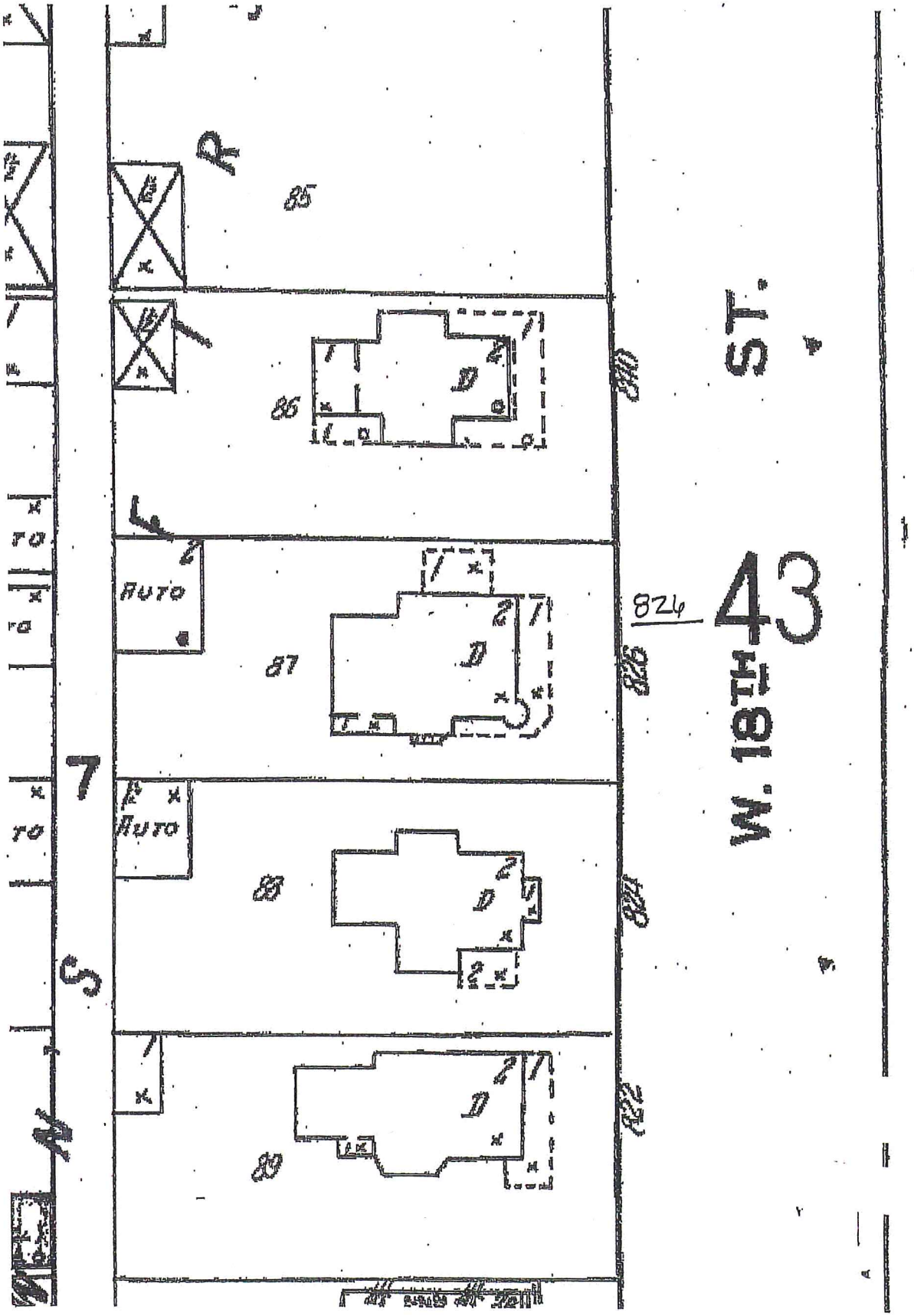


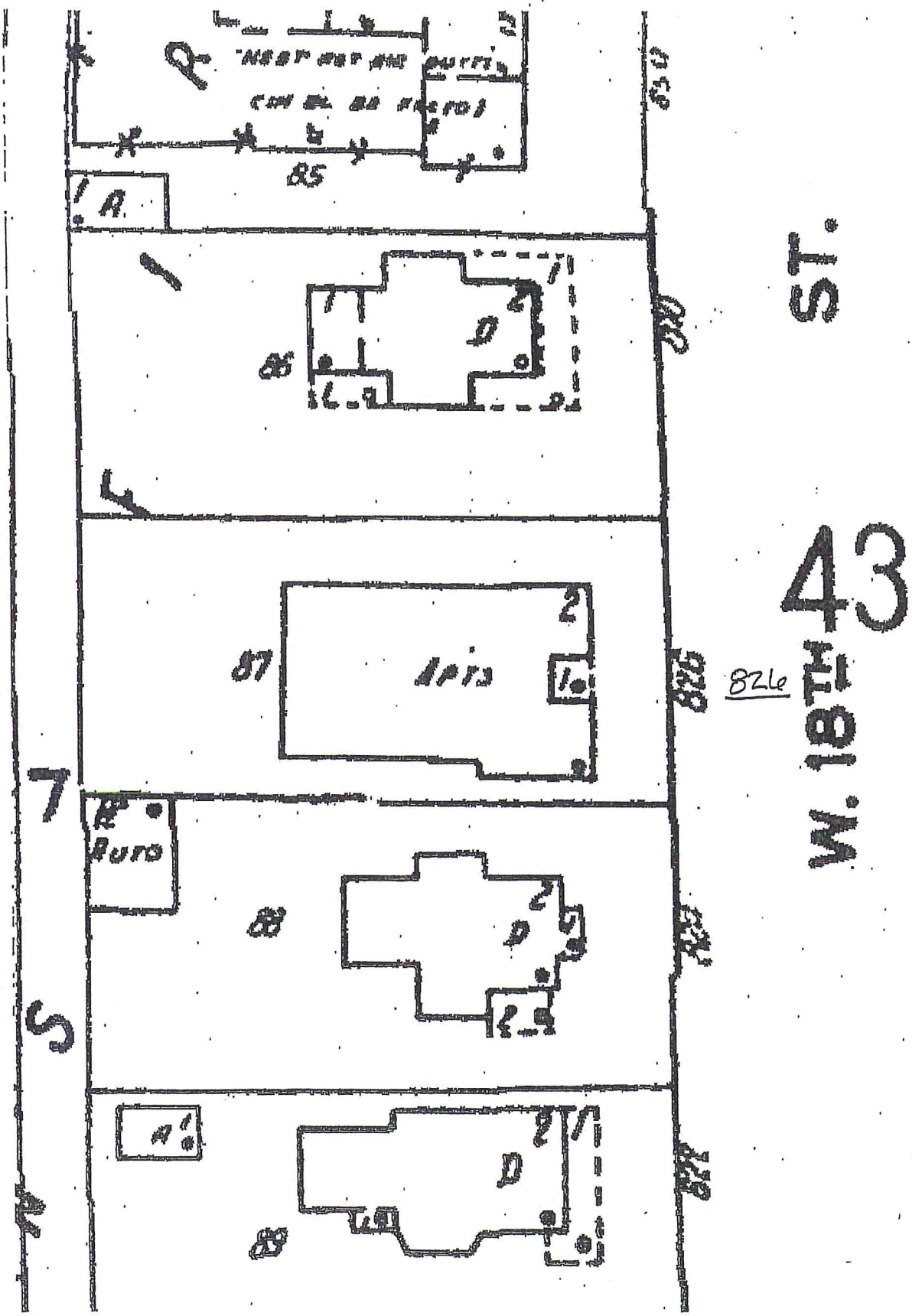
EXHIBIT C

PENGAD 800-631-6989

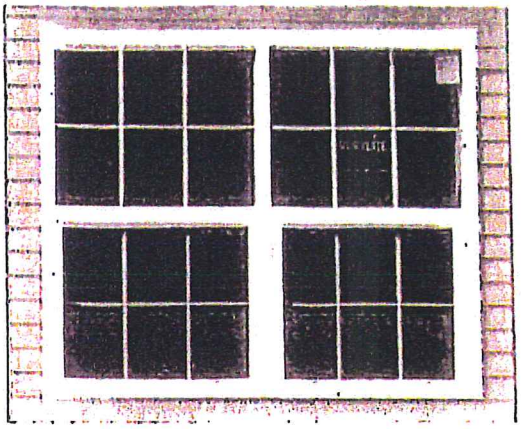
826 18th St. YR: 1920



826 18th St. Yr: 1957



VINYLITE SINGLE HUNG WINDOWS

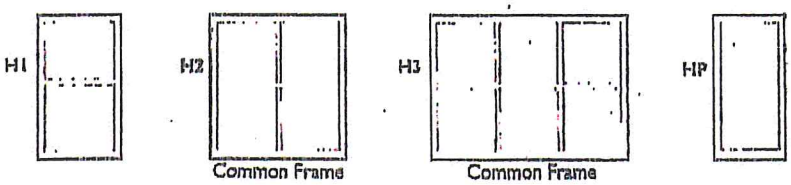


Vinylite Single Hung windows are a popular standard and are built to last a lifetime. They open and close with ease due to their heavy duty block and tackle system. These windows come in a wide range of sizes and configurations and can be combined with geometric shapes and radius units to create a sophisticated, custom look to fit any home.

FEATURES AND BENEFITS

- Double wall thickness for exceptional strength and durability
- Fusion welded main frame and sash for enhanced performance
- 3/4" warm-edge insulated glass standard
- Low-E with Argon available
- Easily removable screen standard on all operating units
- Removable side load sash for easy cleaning
- Easy operating block and tackle balances
- Full sash perimeter fin and pile weatherstrip
- Integral lift handle located on checkrail for easy operation
- Internal grilles available
- Continuous head and sill on multiple units up to 7'6" width
- Metal reinforced check rail
- Choice of three colors - white, almond, and clay
- Color coordinated sash locks and keepers
- Available oak, pine, white or almond vinyl veneered extension jambs
- Custom sizing available
- Full complement of special shapes
- Limited lifetime warranty*

* see warranty for details



	H1 Min-Max	H2 Min-Max	H3 Min-Max	HP Min-Max
W	1'6"-4'0"	3'0"-6'0"	4'6"-7'6"	1'6"-5'0"
H	2'6"-6'0"	3'0"-6'0"	3'0"-6'0"	1'6"-6'0"

Custom sizing available in 1/4" increments.

WE SELL ENERGY STAR

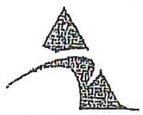
"Vinylite products are tested to American Architectural Manufacturers Association (AAMA) and National Fenestration Rating Council (NFRC) standards. Specific performance information is available in the technical section of our dealer specifications catalog."

EXHIBIT D

PENGAD 800-631-6989

www.vinylite.com

VINYLITE WINDOWS



Architectural Testing

AAMA/WDMA/CSA 101/I.S.2/A440-05
TEST REPORT

Rendered to:

VINYLITE WINDOWS

SERIES/MODEL: Diplomat Single Hung
PRODUCT TYPE: PVC Single Hung Window

Report No.:	A2649.03-501-47
Test Dates:	07/15/10
Through:	10/14/10
Report Date:	04/08/11
Expiration Date:	10/14/14

1140 Lincoln Avenue
Springdale, PA 15144
phone: 724-275-7100
fax: 724-275-7102
www.archtest.com

Architectural Testing

AAMA/WDMA/CSA 101/I.S.2/A440-05
TEST REPORT

SUMMARY OF RESULTS

Title	Summary Of Results	
	Test Specimen #1 (Reinforced Meeting Rails)	Test Specimen #2 (Reinforced Lock Rail and Bottom Rail)
Primary Product Designator	H-R20 1219 x 1829 (48 x 72)	H-R25 1219 x 1829 (48 x 72)
Design Pressure	±960 Pa (±20.06 psf)	±1200 Pa (±25.08 psf)
Operating Force (in motion)	89 N (20 lbf)	N/A
Air Infiltration	0.5 L/s/m^2 (0.10 cfm/ft^2)	N/A
Water Penetration Resistance Test Pressure	260 Pa (5.43 psf)	N/A
Uniform Load Structural Test Pressure	±1440 Pa (±30.09 psf)	±1800 Pa (±37.62 psf)
Forced Entry Resistance	Grade 10	N/A

Title	Summary Of Results	
	Test Specimen #3 (All Reinforced)	Test Specimen #4 (Reinforced Meeting Rails)
Primary Product Designator	H-R30 1219 x 1829 (48 x 72)	H-R35 1118 x 1600 (44 x 63)
Design Pressure	±1440 Pa (±30.09 psf)	±1680 Pa (±35.11 psf)
Operating Force (in motion)	N/A	N/A
Air Infiltration	N/A	N/A
Water Penetration Resistance Test Pressure	N/A	N/A
Uniform Load Structural Test Pressure	±2160 Pa (±45.14 psf)	±2520 Pa (±52.66 psf)
Forced Entry Resistance	N/A	N/A

Test Completion Date: 10/14/10

Reference must be made to Report No. A2649.03-501-47, dated 04/08/11 for complete test specimen description and data.

1140 Lincoln Avenue
Springdale, PA 15144
phone: 724-275-7100
fax: 724-275-7102
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Architectural Testing

AAMA/WDMA/CSA 101/I.S.2/A440-05 TEST REPORT

Rendered to:

VINYLITE WINDOWS
1020 International Drive
Fergus Falls, Minnesota 56537

Report No.:	A2649.03-501-47
Test Dates:	07/15/10
Through:	10/14/10
Report Date:	04/08/11
Expiration Date:	10/14/14

Project Summary: Architectural Testing, Inc. was contracted by Deceuninck North America, LLC to witness test on five Series/Model 310.300 SH, single hung windows at the Deceuninck North America, LLC test facility in Monroe, Ohio. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: H-R20 1219 x 1829 (48 x 72); Test Specimen #2: H-R25 1219 x 1829 (48 x 72); Test Specimen #3: H-R30 1219 x 1829 (48 x 72); Test Specimen #4: H-R35 1118 x 1600 (44 x 63). This report is a reissue of the original Report No. A2649.01-501-47. This report is reissued in the name of Vinylite Windows through written authorization of Deceuninck North America LLC. Test specimen description and results are reported herein. The samples were provided by the client.

Test Specification: The test specimens were evaluated in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights.*

Test Specimen Description:

Series/Model: Diplomat Single Hung

Product Type: Poly Vinyl Chloride (PVC) Singe Hung Window

Test Specimen #1: H-R20 1219 x 1829 (48 x 72)

Overall Size: 1219 mm (48") wide by 1829 mm (72") high

Sash Size: 1140 mm (44-7/8") wide by 886 mm (34-7/8") high

Fixed Daylight Opening Size: 1092 mm (43") wide by 821 mm (32-5/16") high

Test Specimen Description: (Continued)

Test Specimen #1: H-R20 1219 x 1829 (48 x 72) (Continued)

Screen Size: 1121 mm (44-1/8") wide by 876 mm (34-1/2") high

Overall Area: 2. m^2 (24.0 ft^2)

Reinforcement: The fixed meeting rail contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 10300057. The lock rail contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 6560.

Test Specimen #2: H-R25 1219 x 1829 (48 x 72)

Overall Size: 1219 mm (48") wide by 1829 mm (72") high

Sash Size: 1140 mm (44-7/8") wide by 886 mm (34-7/8") high

Fixed Daylight Opening Size: 1092 mm (43") wide by 821 mm (32-5/16") high

Screen Size: 1121 mm (44-1/8") wide by 876 mm (34-1/2") high

Overall Area: 2.2 m^2 (24.0 ft^2)

Reinforcement: The fixed meeting rail contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 10300057. The lock and bottom rail contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 6560

Test Specimen #3: H-R30 1219 x 1829 (48 x 72)

Overall Size: 1219 mm (48") wide by 1829 mm (72") high

Sash Size: 1140 mm (44-7/8") wide by 886 mm (34-7/8") high

Fixed Daylight Opening Size: 1092 mm (43") wide by 821 mm (32-5/16") high

Screen Size: 1121 mm (44-1/8") wide by 876 mm (34-1/2") high

Overall Area: 2.2 m^2 (24.0 ft^2)

Test Specimen Description: (Continued)

Test Specimen #3: H-R30 1219 x 1829 (48 x 72) (Continued)

Reinforcement: The fixed meeting rail contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 10300057. The lock and bottom rail contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 6560. The stiles contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. A6202.

Test Specimen #4: H-R35 1118 x 1600 (44 x 63)

Overall Size: 1118 mm (44") wide by 1600 mm (63") high

Sash Size: 1035 mm (40-3/4") wide by 771 mm (30-3/8") high

Fixed Daylight Opening Size: 991 mm (39") wide by 708 mm (27-7/8") high

Screen Size: 1019 mm (40-1/8") wide by 762 mm (30") high

Overall Area: 1.8 m^2 (19.3 ft^2)

Reinforcement: The fixed meeting rail contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 10300057. The lock contained a custom-shaped extruded aluminum reinforcement, reference Drawing No. 6560.

The following descriptions apply to all specimens.

Finish: All PVC was white.

Frame Construction: The extruded PVC frame was of mitered and welded corner construction. The fixed meeting rail was secured to the jambs using two molded PVC rail anchors, one at each end. Each fixed meeting rail anchor was fastened to the jambs with two #8 x 3/4" long screws, and to the meeting rail reinforcement with one #8 x 1-1/2" long screw.

Sash Construction: The extruded PVC sash was of mitered and welded corner construction.

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.290" high center fin pile	1 Row	Sill, and lock rail
0.187" backed by 0.290" high center fin pile	2 Rows	Sash stiles
0.350" Dia. offset foam filled, bulb with flexible leaf	1 Row	Bottom rail

Glazing Details: The unit was glazed with nominal 3/4" thick sealed insulating glass fabricated from two sheets of 3/32" thick clear annealed glass separated by a U-shaped aluminum spacer, single sealed. The glass was set against a double sided adhesive tape and secured with rigid vinyl glazing beads. The fixed lite was interior glazed and the operable sash was exterior glazed.

Drainage:

Description	Quantity	Location
3/16" dia. weep hole	4	Fixed meeting rail (through two walls), two at each end
1-1/2" wide by leg height weep notch	2	Sill exterior screen leg, one at each end
2" wide by leg height weep notch	2	Sill interior screen leg, one at each end
3/8" wide by 3/16" high weep slot	4	Bottom rail (through two walls), two at each end
1-1/8" wide by 1/8" high weep slot	2	Sill, one at each end

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Block and tackle balance system with locking shoe	2	Jambs, one each
Metal pivot bar	2	Bottom rail, one at each end
Plastic tilt latch	2	Lock rail, one at each end
Composite sweep lock	2	Lock rail, one 7" in from each end engaging an extruded slot in the fixed rail

Screen Construction: The screen frame was constructed from formed aluminum. The corners were square-cut, and secured with plastic corner keys. Fiber mesh screen cloth was held-in-place with a flexible spline.

Installation: The unit was installed in a wood buck constructed from Spruce-Pine-Fir construction lumber and secured through the nail fin with #8 x 5/8" long pan head screws spaced approximately 11" on center, and starting in each corner. The nail fin perimeter was sealed with a silicone sealant. A nominal 1/8" gap was maintained at the perimeter between the test unit and wood buck.

Test Results: The temperature during testing was N/A. The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-R20 1219 x 1829 (48 x 72)			
5.3.1	Operating Force per ASTM E 2068		
	Initiate motion to open	89 N (20 lbf)	Report Only
	Maintain motion to open	71 N (16 lbf)	135 N (30 lbf)
	Initiate motion to close	89 N (20 lbf)	Report Only
	Maintain motion to close	89 N (20 lbf)	135 N (30 lbf)
	Latches	9 N (2 lbf)	100 N (22.5 lbf)
	Locks	18 N (4 lbf)	100 N (22.5 lbf)

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-R20 1219 x 1829 (48 x 72) (Continued)			
5.3.2.1	Air Leakage Resistance per ASTM E 283 75 Pa (1.6 psf)	0.5 L/s/m^2 (0.10 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.
5.3.3.2	Water Penetration Resistance per ASTM E 547		See Note #2
5.3.4.2	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	720 Pa (15.05 psf) (positive)	6.9 mm (0.27")	See Note #3
	720 Pa (15.05 psf) (negative)	8.0 mm (0.31")	See Note #3
5.3.4.3	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	1080 Pa (22.57 psf) (positive)	<0.3 mm (<0.01")	4.4 mm (0.17") max.
	1080 Pa (22.57 psf) (negative)	<0.3 mm (<0.01")	4.4 mm (0.17") max.
5.3.5	Forced Entry Resistance per ASTM F 588		
	Type: A	Grade: 10	
	Disassembly Test	No entry	No entry
	Tests A1-A5	No entry	No entry
	Test A7	No entry	No entry
	Sash Manipulation Test	No entry	No entry
	Lock Hardware Manipulation Test	No entry	No entry

Note #1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440-05 for air leakage resistance.

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

Note #3: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440-05 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-R20 1219 x 1829 (48 x 72) (Continued)			
5.3.6.2	Thermoplastic Corner Weld Test	Meets as stated	Meets as stated
5.3.6.3	Deglazing Test In operating direction - 320 N (72 lbf)		
	Meeting rail	4.8 mm (0.19")	11.4 mm (0.45")
	Bottom rail	4.3 mm (0.17")	11.4 mm (0.45")
	In remaining direction - 230 N (52 lbf)		
	Left stile	2.3 mm (0.09")	11.4 mm (0.45")
	Right stile	2.3 mm (0.09")	11.4 mm (0.45")
Optional Performance			
4.4.2.6	Water Penetration Resistance per ASTM E 547 (with and without insect screen) 260 Pa (5.43 psf)	No leakage	No leakage
4.4.2.6	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	960 Pa (20.06 psf) (positive)	9.4 mm (0.37")	See Note #3
	960 Pa (20.06 psf) (negative)	10.1 mm (0.40")	See Note #3
4.4.2.6	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	1440 Pa (30.09 psf) (positive)	<0.3 mm (<0.01")	4.4 mm (0.17") max.
	1440 Pa (30.09 psf) (negative)	<0.3 mm (<0.01")	4.4 mm (0.17") max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Test Specimen #2: H-R25 1219 x 1829 (48 x 72)		
	Optional Performance		
4.4.2.6	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	1200 Pa (25.08 psf) (positive)	12.3 mm (0.48")	See Note #3
	1200 Pa (25.08 psf) (negative)	12.5 mm (0.49")	See Note #3
4.4.2.6	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	1800 Pa (37.62 psf) (positive)	<0.3 mm (<0.01")	4.4 mm (0.17") max.
	1800 Pa (37.62 psf) (negative)	0.3 mm (0.01")	4.4 mm (0.17") max.
	Test Specimen #3: H-R30 1219 x 1829 (48 x 72)		
	Optional Performance		
4.4.2.6	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	1440 Pa (30.09 psf) (positive)	15.3 mm (0.60")	See Note #3
	1440 Pa (30.09 psf) (negative)	15.0 mm (0.59")	See Note #3
4.4.2.6	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	2160 Pa (45.14 psf) (positive)	0.3 mm (0.01")	4.4 mm (0.17") max.
	2160 Pa (45.14 psf) (negative)	0.9 mm (0.03")	4.4 mm (0.17") max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #4: H-R35 1118 x 1600 (44 x 63)			
Optional Performance			
4.4.2.6	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	1680 Pa (35.11 psf) (positive)	11.0 mm (0.43")	See Note #3
	1680 Pa (35.11 psf) (negative)	10.3 mm (0.40")	See Note #3
4.4.2.6	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	2520 Pa (52.66 psf) (positive)	0.3 mm (0.01")	4.0 mm (0.16") max.
	2520 Pa (52.66 psf) (negative)	0.3 mm (0.01")	4.0 mm (0.16") max.

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.

Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen reported herein.

List of Official Observers:

Name	Company
Dean Erbaugh	Deceuninck North America, LLC
Corey Eisenhuth	Architectural Testing, Inc.

This report is reissued in the name of Vinylite Windows through written authorization of Deceuninck North America LLC to whom the original report was rendered. The original Deceuninck North America LLC Report No. is A2649.01-501-47.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

Results obtained are tested values and were secured by using the designated test methods. If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen 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.

Digitally Signed by: Corey A. Eisenhuth

Corey A. Eisenhuth
Senior Technician

Digitally Signed by: Lynn George

Lynn George
Director – Regional Operations

CAE:sld

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Alteration Addendum (1)
Appendix-B: Drawings (15)

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	04/08/11	N/A	Original report issue – Reissued Report No. A2649.01-501-47 in the name of Vinylite Windows.

Appendix A

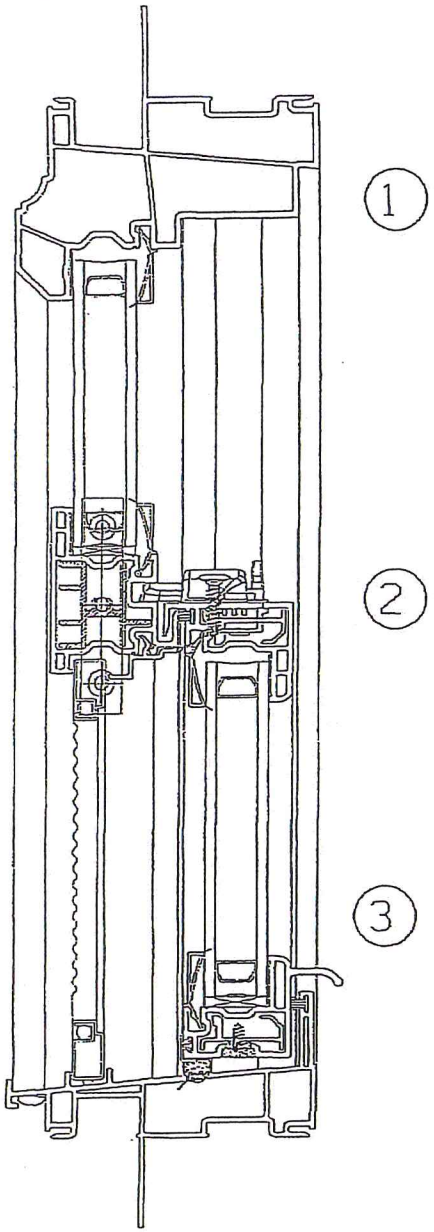
Alteration Addendum

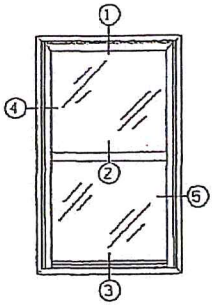
Note: No alterations were required.

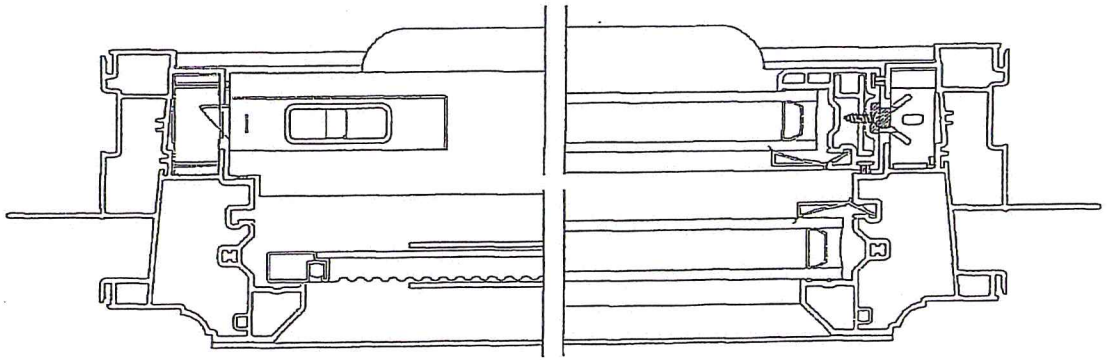
Appendix B

Drawings

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.







Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A2649

Date 10-19-10 Tech CAE

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143.000 SH - 002 FRAME - BILL OF MATERIALS

WITH SWEEPLOCK & 8687 DEDICATED HEAD

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
1	HEAD	1	10008687	P8687F01	A
2	SILL	1	10008673	P8673F03	A
3	JAMBS	2	10008686	P8686F02	A
4	FIXED MEETING RAIL	1	10008515	10008515F01	A
5	SCREEN RETAINER	1	10005258	STRAIGHT CUT	A
6	HORIZONTAL GLAZING BEAD	2	10008126	P8127F01	A
7	VERTICAL GLAZING BEAD	2	10008126	P8127F01	A
8	EGRESS SILL (Optional) / 8672 DP-50 (Optional)	1	P8674	P8674F01	A
9	FIXED MEETING RAIL INSERT	1	10300057		OOO
10	FIXED MEETING RAIL ANCHOR	2	121 MTG Rail Clip		IIII
11	CENTER FIN WEATHERSTRIPPING	AS REQ'D	.290 HT. x .187 BK.		F , I
12	3/4" INSULATED GLASS	1	Refer to Applicable Test Report		R
13	GLAZING COMPOUND	AS REQ'D	Refer to Applicable Test Report		T
14	SETTING BLOCKS (REFER TO IG SUPPLIER GUIDELINES)	AS REQ'D	Refer to Applicable Test Report		W
15	BALANCE SYSTEM - CROSSBOW		Quick - Tilt		C
16	BALANCE SHOE	2	B32		C
17					
18	BALANCE SCREWS	2	#8 X 1" PFH		GGG
19	SCREEN ASEMBLY	1	3/8" x 3/4"		B, Z
20	FRAME SCREWS (Optional)	2	#8 x 3/4" PPH		B, Z
21	FIXED MEETING RAIL ANCHOR SCREW	4	#8 x 1.00" PFH		Z
22	MEETING RAIL INSERT SCREWS	2	#8 X 1 1/2" PPH		CC
23	OPTIONAL: MEETING RAIL GASKET	2 EACH	G-A302-L1G153 / G-A302-L1G154		
24					

Rev	Date	Description	By
A	10/7/2003	ADDED HO PRODUCTS GASKET INFO	CRB
B	4/15/2005	ADDED DP-50 SILL 8672	JOE L

deceuninck NORTH AMERICA

MONROE, OH

NAME:	143.000SH-002	
DWN BY:	CRB	8/10/2000
CHKD BY:		
DWG NO:	143000SH-002.XLS	

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A2649

Date 10-19-10 Tech CAE

000.095 SH - 009 - BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
1	LOCK RAIL	1	10008845	10008845-F-09	A
2	STILES	1	10008842	10008842-F-11	A
3	LIFT RAIL	1	10008840	10008840-F-06	A
4					
5	GLAZING BEAD	4	10008126	STRAIGHT CUT	A
6					
7					
8	SASH REINFORCEMENT	2	~~10245~~ 6201	STRAIGHT CUT	TBD
9	SASH REINFORCEMENT	2	~~6202~~ 6203	STRAIGHT CUT	O
10					
11	3/4" GLASS	1	REFER TO APPLICABLE TEST REPORT		TBD
12	GLAZING COMPOUND	AS REQ'D	REFER TO APPLICABLE TEST REPORT		TBD
13	SETTING BLOCKS (REFER TO IG SUPPLIER GUIDELINES)	AS REQ'D	REFER TO APPLICABLE TEST REPORT		TBD
14	CENTERFIN WEATHERSTRIPPING	AS REQ'D	.187 BK x .290 HT		F, HHHH
15			Architectural Testing		
16					
17			Test sample complies with these details.		
18			Deviations are noted.		
19					
20			Report# A2619		
21			Date 10-19-10 Tech CAE		
22	PIVOT BAR	2	16Y626		C
23	PIVOT BAR SCREWS	4	#8 x 3/8" PPH		B, Z
24					
25	LOCK	1 OR 2	L-2922-WO8085		IIII
26	LOCK SCREWS	2 OR 4	#8 X 7/8" PFH PAINTED		B, Z
27	TILT LATCHES	2	201-195-283 (LEFT)/ 200-195-283 (RIGHT)		IIII
28					
29	INSTALLATION DETAILS	AS REQ'D	REFER TO APPLICABLE TEST REPORT		
30					

REV	DATE	DESCRIPTION	BY

deceuninck NORTH AMERICA

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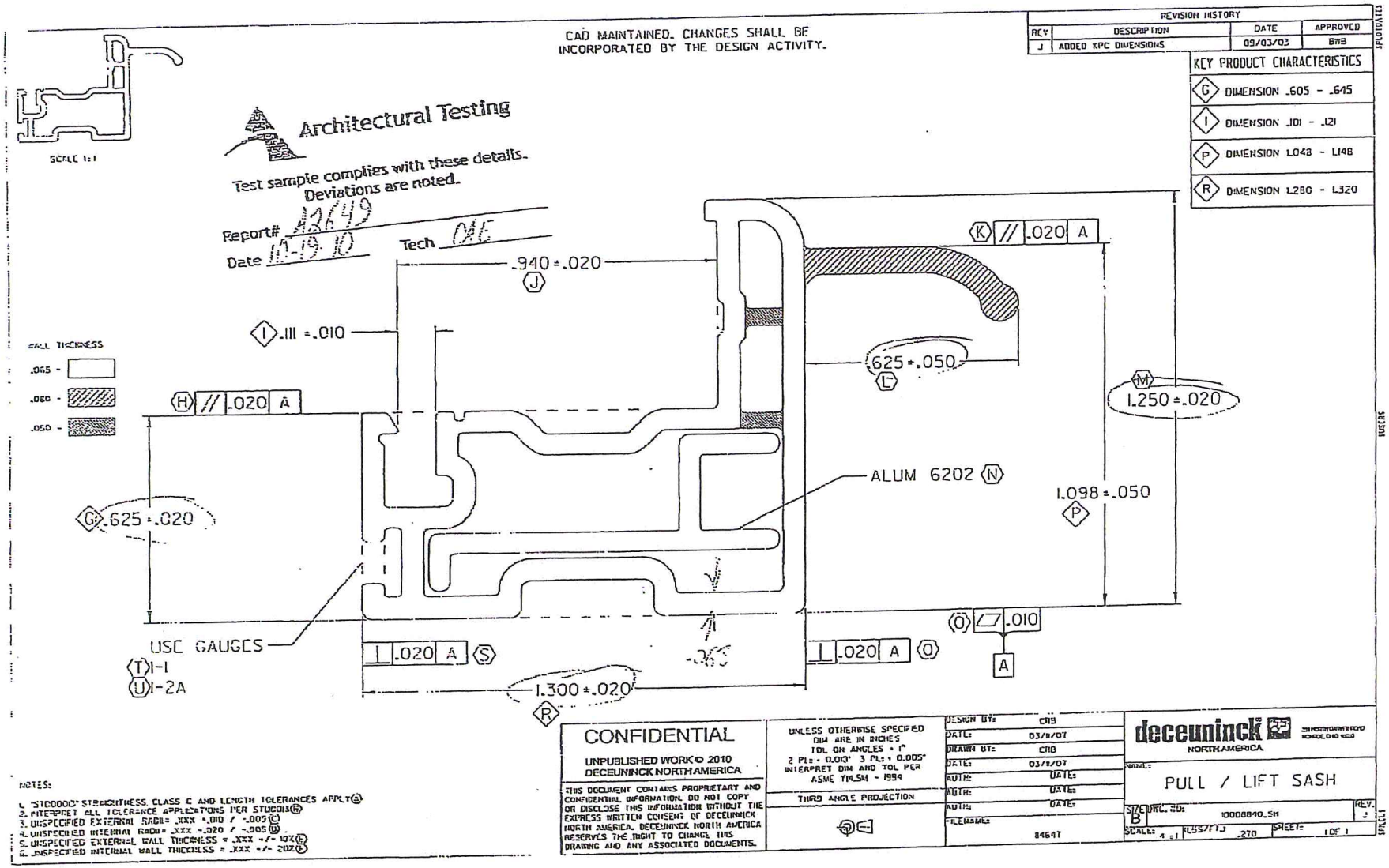
NAME:	000.095 SH - 009	
DWN BY:	JGM	9/9/2010
CHKD BY:		
DWG NO:	000095SH-009.xls	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REVISION HISTORY
REV | DESCRIPTION | DATE | APPROVED
J | ADDED KPC DIMENSIONS | 09/03/03 | BWB
KEY PRODUCT CHARACTERISTICS
G DIMENSION .605 - .645
I DIMENSION .101 - .121
P DIMENSION 1.048 - 1.148
R DIMENSION 1.280 - 1.320
SCALE 1:1
Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report# 13649
Date 11-19-10
Tech DAE
WALL THICKNESS
.065 -
.080 -
.050 -
.940 ±.020
J
.111 ±.010
I
H // .020 A
.625 ±.050
L
K // .020 A
M
1.250 ±.020
ALUM 6202 N
1.098 ±.050
P
G .625 ±.020
USE GAUGES
T I-1
U I-2A
.020 A S
1.300 ±.020
R
.020 A O
O .010 A
NOTES:
1. "STUDDED" STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY A
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STUDDS B
3. UNSPECIFIED EXTERNAL RADII = .XXX ±.010 / -.005 C
4. UNSPECIFIED INTERNAL RADII = .XXX ±.020 / -.005 D
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% E
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% F
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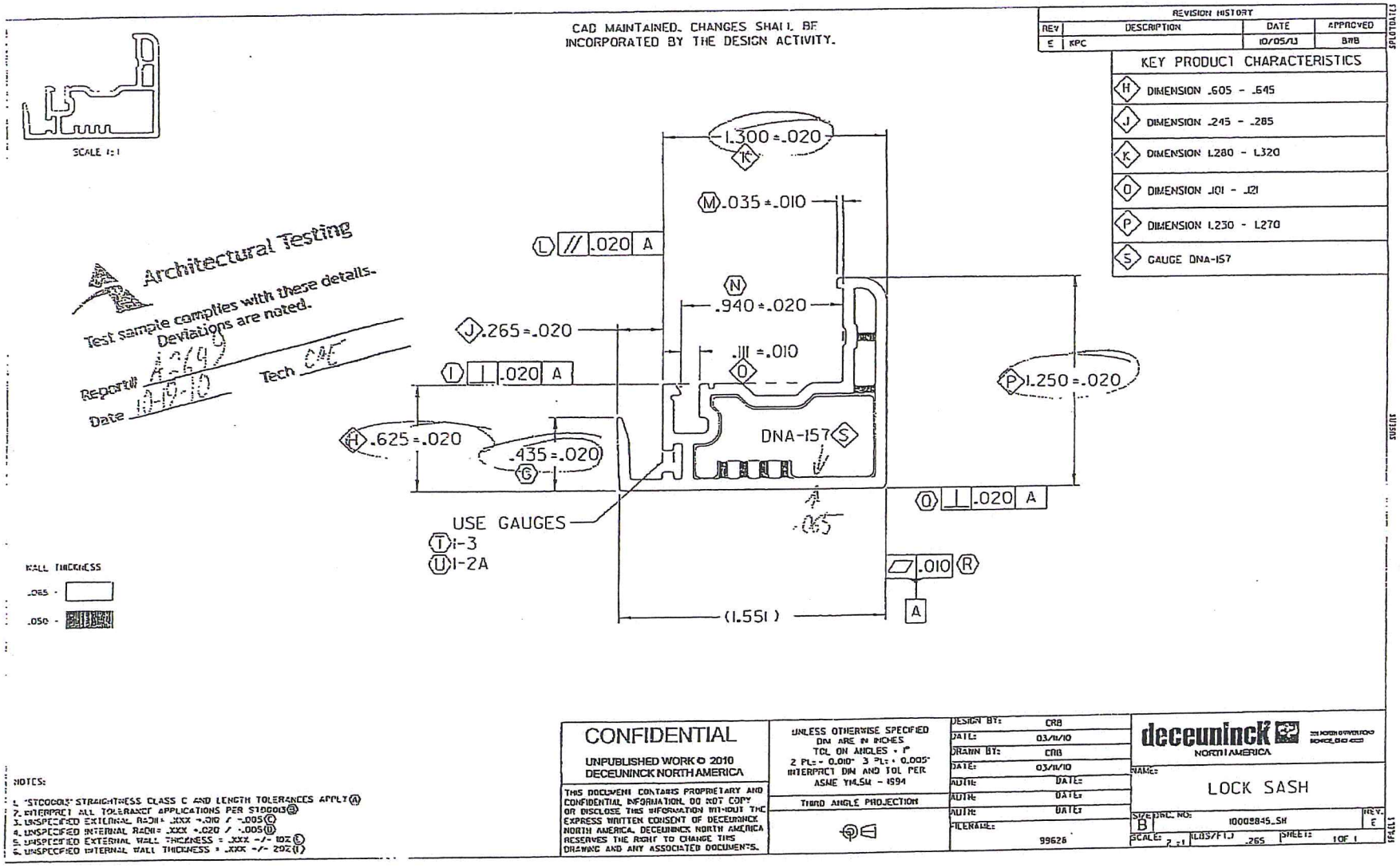
UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLES ± 1° 2 PL: ± 0.010" 3 PL: ± 0.005" INTERPRET DIM AND TOL PER ASME Y14.5M - 1994
THIRD ANGLE PROJECTION
DESIGN BY: CHB
DATE: 03/8/07
DRAWN BY: CHB
DATE: 03/8/07
AUTH: DATE:
AUTH: DATE:
AUTH: DATE:
FILENAME: 84647
deceuninck NORTH AMERICA
NAME: PULL / LIFT SASH
SIZE B
DWG. NO: 10008840_SH
REV. J
SCALE: 4 :1
WEIGHT: .270
SHEET: 1 OF 1


CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.
REVISION HISTORY
REV | DESCRIPTION | DATE | APPROVED
E | KPC | 10/05/10 | BAB
KEY PRODUCT CHARACTERISTICS
H DIMENSION .605 - .645
J DIMENSION .245 - .285
K DIMENSION 1.280 - 1.320
O DIMENSION .101 - .121
P DIMENSION 1.230 - 1.270
S GAUGE DNA-157
SCALE 1:1
Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report# A-249
Tech CAE
Date 10-19-10
1.300 ±.020
K
M .035 ±.010
L // .020 A
N
.940 ±.020
J .265 ±.020
.111 ±.010
O
I ⊥ .020 A
P 1.250 ±.020
H .625 ±.020
.435 ±.020
G
DNA-157 S
O ⊥ .020 A
USE GAUGES
T i-3
U i-2A
.010 R
A
(1.551)
WALL THICKNESS
.065 -
.050 -
NOTES:
1. "STODDOS" STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY A
2. INTERPRET ALL TOLERANCE APPLICATIONS PER S1000D3 B
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 C
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 D
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% E
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% F
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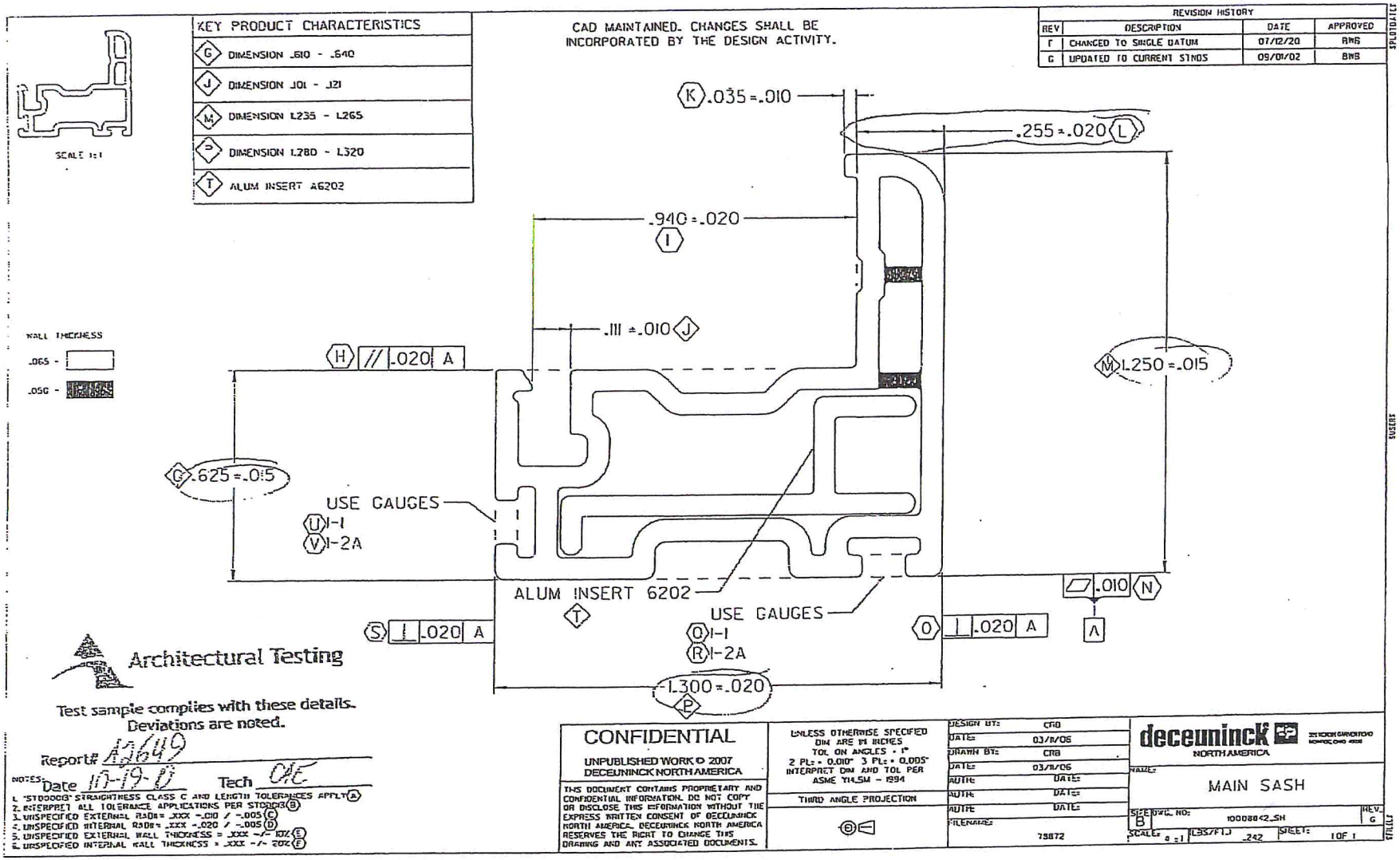
THIRD ANGLE PROJECTION
DESIGN BY: CRB
DATE: 03/18/10
DRAWN BY: CRB
DATE: 03/18/10
AUTH: DATE:
AUTH: DATE:
AUTH: DATE:
FILENAME: 99628
deceuninck NORTH AMERICA
NAME: LOCK SASH
SIZE: B
DWG. NO: 10008845_SH
REV: E
SCALE: 2 :1
WEIGHT: .265
SHEET: 1 OF 1


SCALE 1:1
KEY PRODUCT CHARACTERISTICS
G DIMENSION .610 - .640
J DIMENSION .101 - .121
M DIMENSION 1.235 - 1.265
P DIMENSION 1.280 - 1.320
T ALUM INSERT A6202
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.
REVISION HISTORY
REV | DESCRIPTION | DATE | APPROVED
F | CHANGED TO SINGLE DATUM | 07/12/20 | RWB
G | UPDATED TO CURRENT SINDS | 09/01/02 | BWB
K .035 ±.010
.255 ±.020 L
.940 ±.020 I
.111 ±.010 J
H // .020 A
M 1.250 ±.015
WALL THICKNESS
.065 -
.050 -
G .625 ±.015
USE GAUGES
U I-1
V I-2A
ALUM INSERT 6202 T
.010 N
S | .020 A
USE GAUGES
Q I-1
R I-2A
O | .020 A
A
1.300 ±.020 P
Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report# A2649
Date 10-19-01
Tech CAE
NOTES:
1. "STD000B" STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY A
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD003 B
3. UNSPECIFIED EXTERNAL RADII = .XXX ±.010 / ±.005 C
4. UNSPECIFIED INTERNAL RADII = .XXX ±.020 / ±.005 D
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% E
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% F
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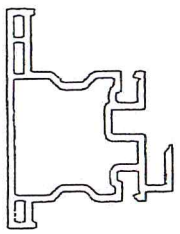
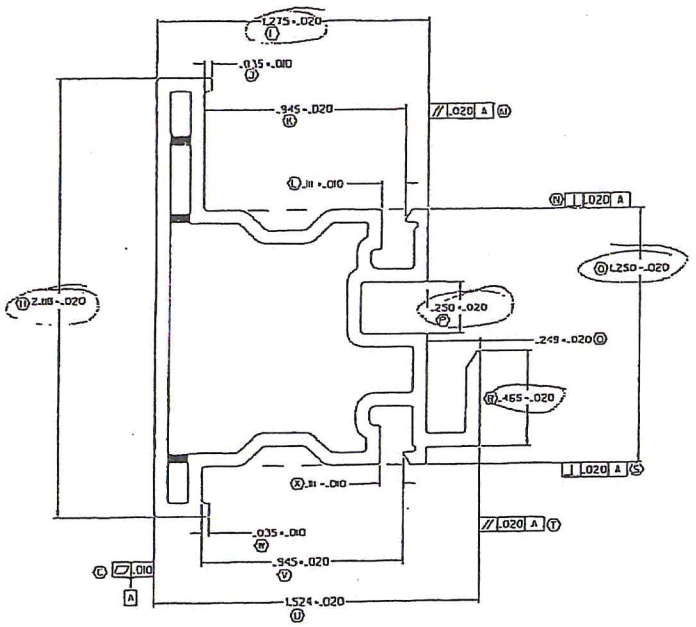
UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLES = 1° 2 PL= ± 0.010" 3 PL= ± 0.005" INTERPRET DIM AND TOL PER ASME Y14.5M - 1994
THIRD ANGLE PROJECTION
DESIGN BY: CRD DATE: 03/8/06
DRAWN BY: CRB DATE: 03/8/06
AUTH: DATE:
AUTH: DATE:
AUTH: DATE:
FILENAME: 75872
deceuninck NORTH AMERICA
MAIN SASH
SIZE B DWG. NO: 100080<2_SH REV. G
SCALE: 8 =1 LSS/FIJ .242 SHEET: 1 OF 1

CAD MAINTAINED. CHANGES SHALL BE
INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
E	ECN-3	08/09/17	BWB



SCALE 1:1



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A2649

Date 10-19-10 Tech CAE

WALL THICKNESS

.055 -

.050 -

NOTES:

1. "STD0001" STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0003 (B)
3. UNSPECIFIED EXTERNAL RADII = .XXX +-.010 / +-.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX +-.020 / +-.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

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UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL = 0.010" 3 PL = 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	CAB
DATE:	07/07/22
DRAWN BY:	CAB
DATE:	07/07/28
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	=FILE NAME=

deceuninck NORTH AMERICA

TITLE: FIXED MEETING RAIL

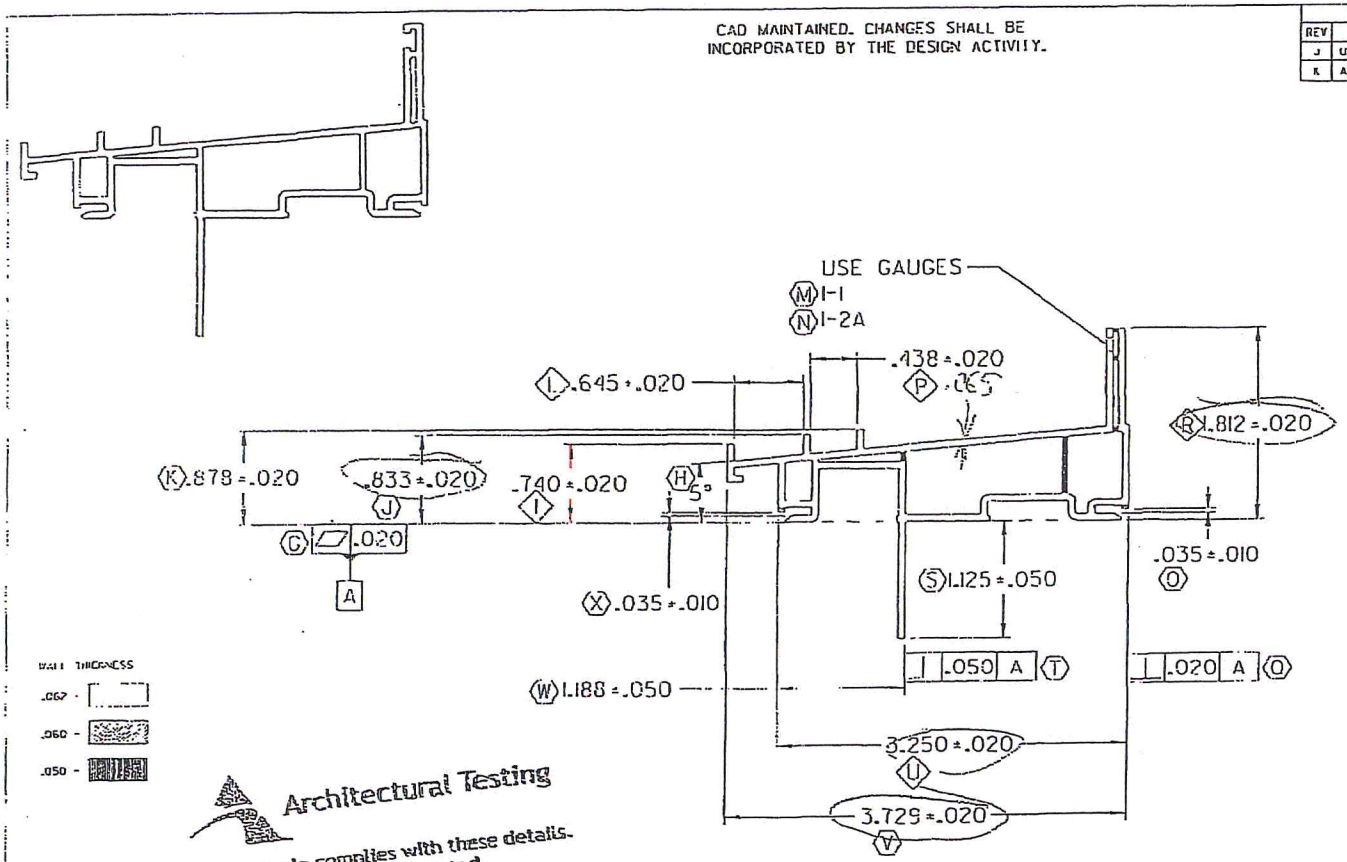
SIZE	DWG. NO:	REV.
B	10008515_SH	E

SCALE: 2 :1 | LB5/FT.) .359 | SHEET: 1 OF 1

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
J	UPDATED TO CURRENT STNDS	08/05/13	BRD
K	ADDED KPC DIMENSIONS	08/12/31	BMB

KEY PRODUCT CHARACTERISTICS
(I) DIMENSION .720 - .760
(L) DIMENSION .625 - .655
(P) DIMENSION .418 - .458
(R) DIMENSION 1.792 - 1.832
(U) DIMENSION 3.230 - 3.270



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A4649

Date 12-19-10 Tech CAE

NOTES:
1. "STDOOOO" STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (B)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STDOOOO (S)
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

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UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL= 0.010" 3 PL= 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	JOE L
DATE:	99/06/04
DRAWN BY:	JOE L
DATE:	99/06/04
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	78851

deceuninck NORTH AMERICA

NAME: SILL FRAME - SH/DH

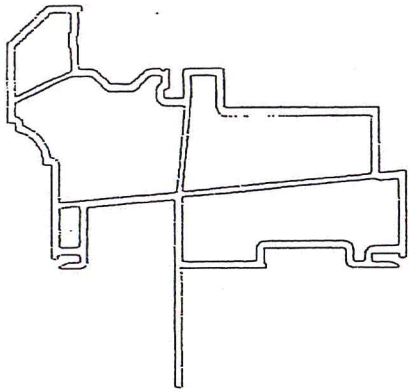
SIZE: B | DWG. NO: 10008673_SH | REV: K

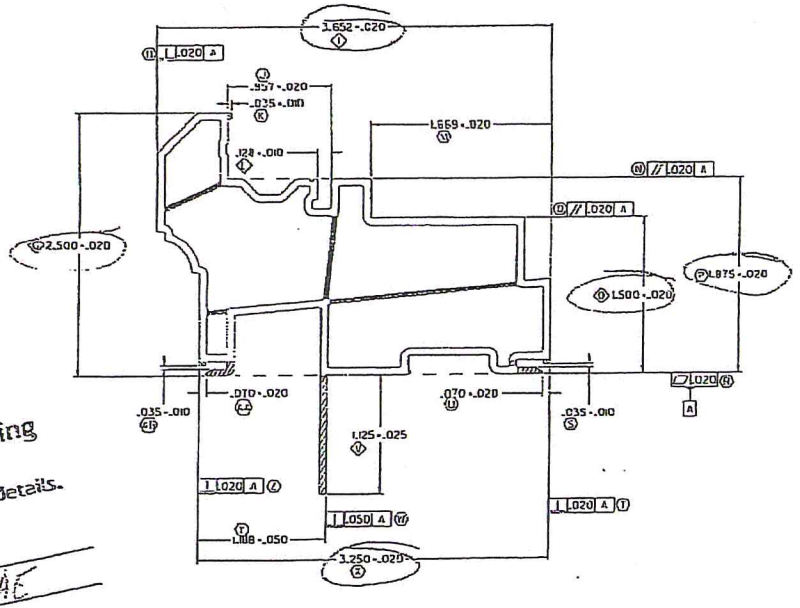
SCALE: 1:1 | LBS/FT: .579 | SHEETS: 1 OF 1

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
C	UPDATE TO CURRENT STNDS	08/05/20	BKE
H	ADDED KPC DIMENSIONS	09/01/09	BKE

KEY PRODUCT CHARACTERISTICS
C FRAME DIMENSION 2.480 - 2.520
I FRAME DIMENSION 1.632 - 1.672
L FRAME DIMENSION J18 - J38
O FRAME DIMENSION L480 - L520
V FRAME DIMENSION U20 - U50





WALL THICKNESS

.070 -

.062 -

.060 -

.050 -

Architectural Testing

Test sample complies with these details. Deviations are noted.

Report # 42649

Date 10-19-10 Tech CAE

NOTES:

1. STOCKBOLT STRENGTHNESS CLASS 4 AND LENGTH TOLERANCES APPLY A
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD300 B
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 C
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 D
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% E
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% F

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UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLES = 1° 2 PL= ± 0.010" 3 PL= ± 0.005" INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	CAS
DATE:	00/05/12
DRAWN BY:	CAB
DATE:	00/05/12
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	79246

deceuninck NORTH AMERICA

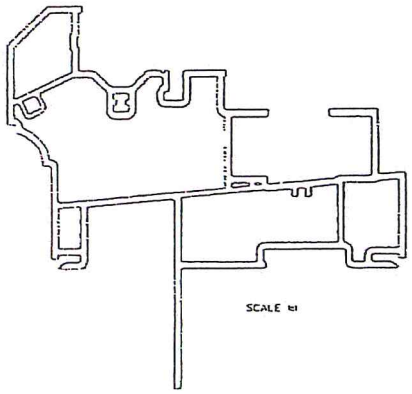
NAME: HEAD FRAME - SH (PW MF)

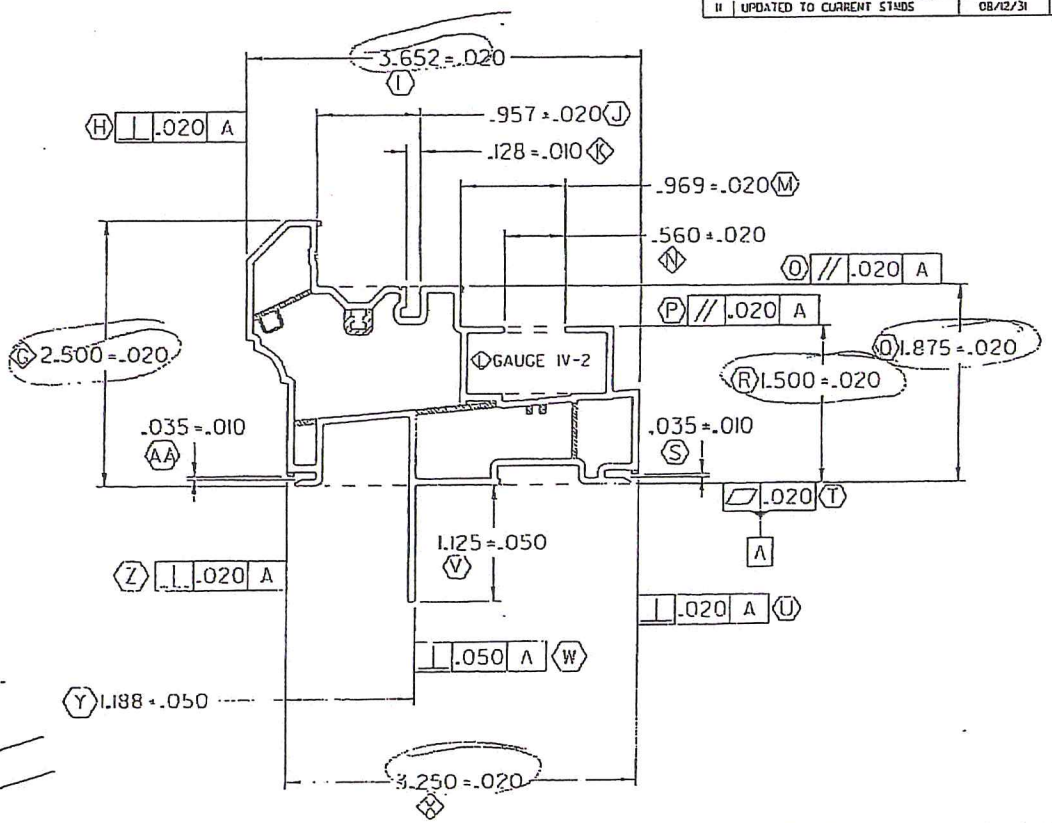
SIZE	DWG. NO:	REV.
B	10008687_SH	H

SCALE: 1:1 WEIGHT: .777 SHEET: 1 OF 1

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
G	CDT-3	07/08/23	BMB
H	UPDATED TO CURRENT STNDS	08/12/31	BMB





KEY PRODUCT CHARACTERISTICS	
P	DIMENSION 2.480 2.520
I	DIMENSION .118 - .138
N	DIMENSION .540 - .580
X	DIMENSION 3.230 - 3.270
L	GAUGE IV-2

WALL THICKNESS

.062	
.080	
.050 -	
.040 -	

Architectural Testing

Test sample complies with these details. Deviations are noted.

Report# A669

Date 10-19-10

Tech CAF

NOTES:

1. S10000 STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY A
2. INTERPRET ALL TOLERANCE APPLICATIONS PER S10000 U
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 C
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 U
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% E
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% F

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UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL = 0.010" 3 PL = 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	CRB
DATE:	00/05/22
DRAWN BY:	CRB
DATE:	00/08/22
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	78629

deceuninck NORTH AMERICA

NAME: MAIN FRAME - SH

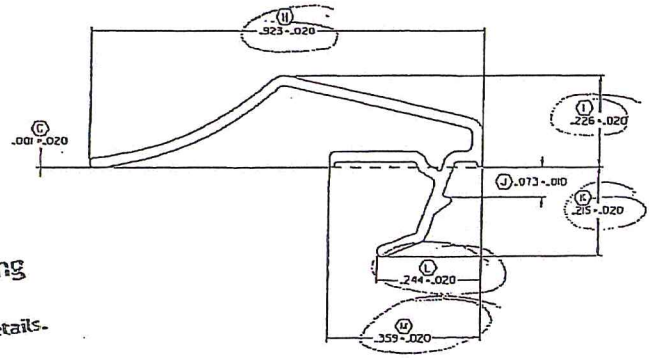
SIZE: B | DWG. NO: 10008686_SH | REV: H

SCALE: 1:1 | LBS/FT: .775 | SHEET: 1 OF 1

CAD MAINTAINED. CHANGES SHALL BE
INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
-	---	---	---

SCALE 1:1



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A3649

Date 10-19-10 Tech CAE

WALL THICKNESS
.025 - [ ]

NOTES:

1. "STD0001" STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0001 (B)
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

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UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL= 0.010" 3 PL= 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	CRB
DATE:	08/05/12
DRAWN BY:	KED
DATE:	08/05/12
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	70943

deceuninck NORTH AMERICA

NAME: SCREEN RETAINER

SIZE	DWG. NO:	REV.
B	10005258_SR	NEW

SCALE: 4 : 1 | WEIGHT: .028 | SHEET: 1 OF 1

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
J	ADDED GAUGE	09/18/03	BWG

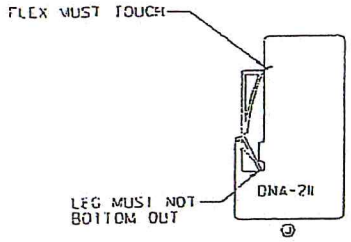
SCALE 1=

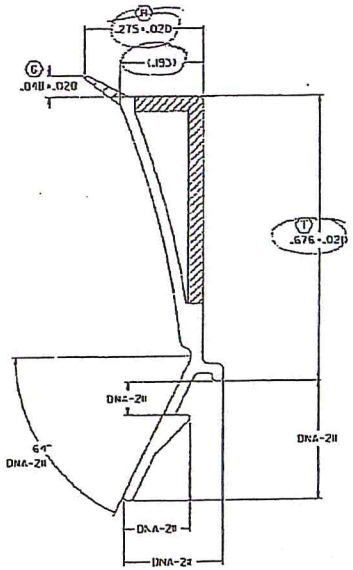
Architectural Testing

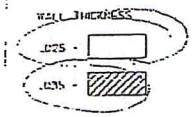
Test sample complies with these details.
Deviations are noted.

Report# A4649

Date 15-A-10 Tech CAC







NOTES:
1. "STOOOOO" STRAIGHTNESS CLASS E AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER ST0003 (B)
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX -.020 / -.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES ± 1°
2 PL= ± 0.010" 3 PL= ± 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	TAW
DATE:	02/05/02
DRAWN BY:	TAW
DATE:	02/05/02
AUTH	DATE:
AUTH	DATE:
AUTH	DATE:
FILENAME:	93195

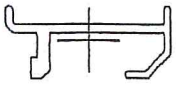
deceuninck NORTH AMERICA

NAME: GLAZING BEAD

SIZE	DWG. NO:	REV
B	10008126_SH	J

SCALE: 4 = 1 | LBS/FT: .035 | SHEET: 1 OF 1

23245



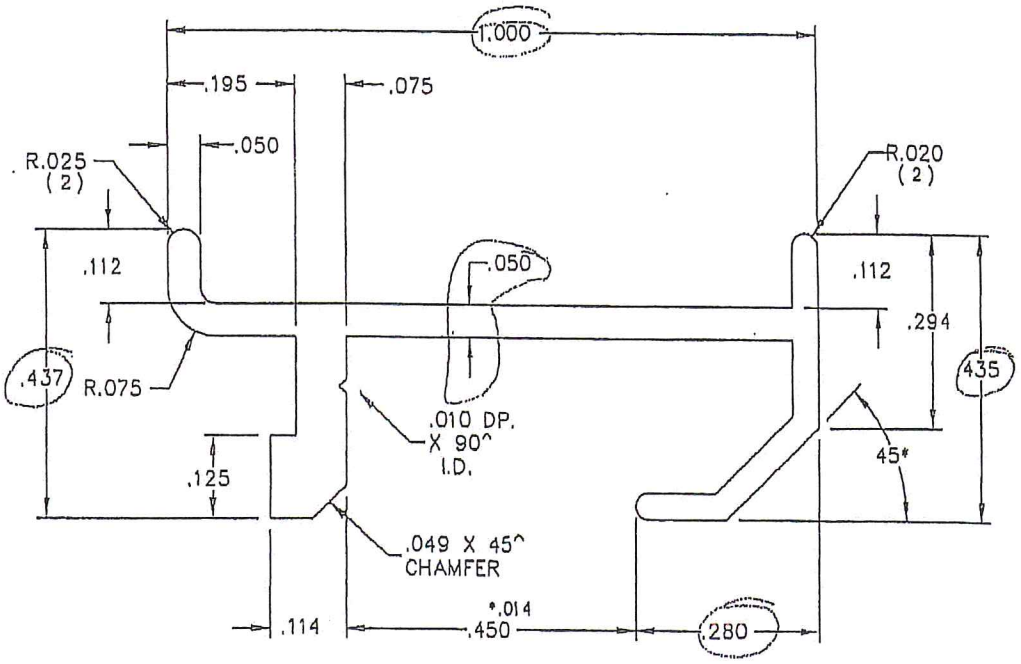
ACTUAL SIZE
NO EXPOSED SURFACE

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# A2649

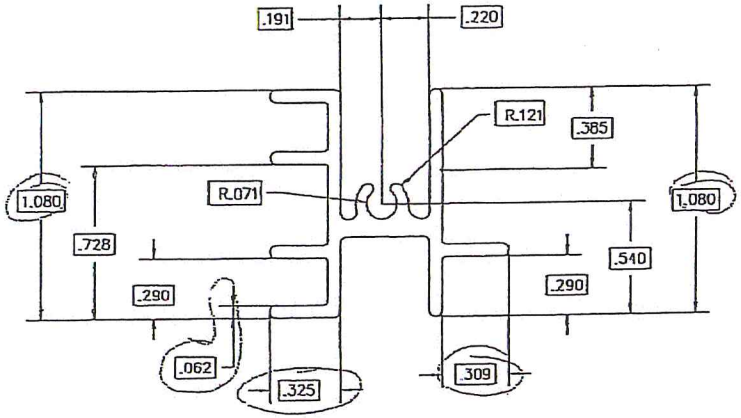
Date 10-19-10 Tech CME



.015		.040	6560-T6
.100	3.931		
.120	33	AMERICAN WINDOW & GLASS EVANSVILLE	F IND.
		095 KEEP. RAIL, SH LOCK RAIL REINF.	1-2
		4 X 1 M.M. 6/11/2004	AWG-4

REVISION HISTORY			
REV.	DESCRIPTION	DATE	APPROVED
⊟	-----	YR/MTH/DAY	

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# AA649

Date 10-19-10 Tech CAE

NOTES:
1. This print contains proprietary information. Do not copy without express written consent of DAYTON TECHNOLOGIES.
2. DAYTON TECHNOLOGIES reserves the right to change specifications.

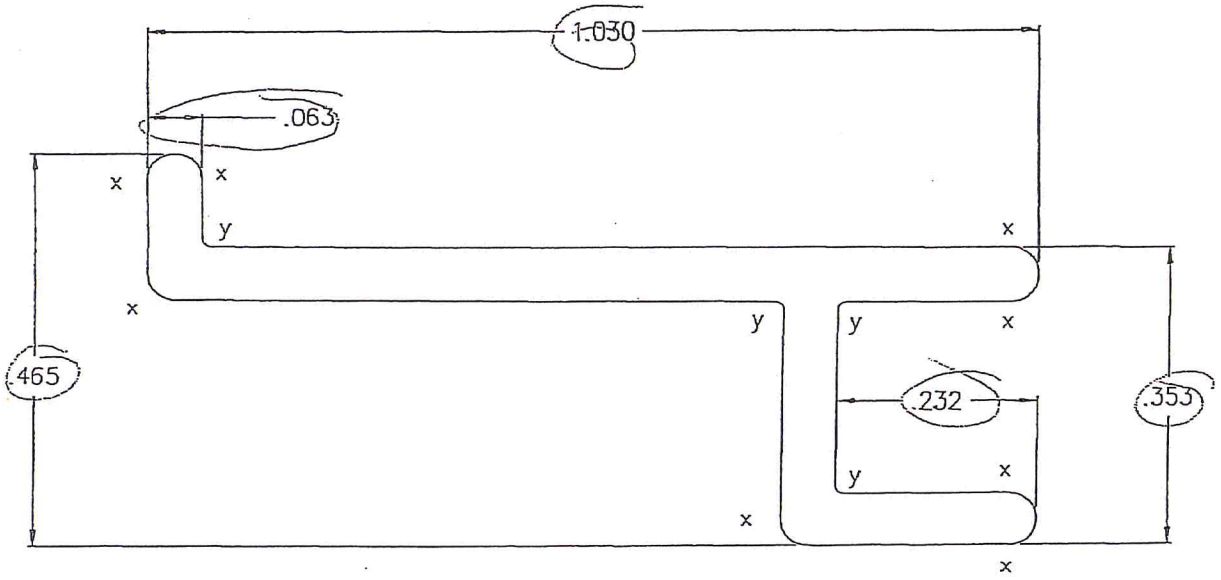
UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ± .XX 2 PL ± .XX 3 PL .XXX INTERPRET DIM AND TOL PER ASME Y14.5M – 1994	DESIGN BY: CRB
	DATE: 03/10/02
	DRAWN BY: CRB
	DATE: 03/10/02
THIRD ANGLE PROJECTION	AUTH:
	DATE:
	FILENAME: H: pd/cad2/aluminum/10300057SH_1.mi

Dayton TECHNOLOGIES | deceuninck NORTH AMERICA

351 NORTH CARVER ROAD MONROE, OHIO 45050

NAME: MEETING RAIL REINFORCEMENT

B	DWG. NO: 10300057		
SCALE: 1 : 1	(Lbs/Ft) .318	SHEET: 1 OF 1	



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 42649

Date 11-9-10 Tech CAE

Notes:
1) "x" = .030" radius
2) "y" = .010" radius

Area :	.103 Sq. In.
Weight :	.123 Lb./Ft.

Standard Commercial Tolerances Apply Unless Otherwise Noted

DAYTON EXTRUDED PLASTICS

SPRINGBORO, OHIO

NAME:	0093 SASH REINFORCEMENT		
MATERIAL(S):	ALUMINUM		
DRAWN BY:	DAS	DATE:	3/22/94
CHECKED BY:		DATE:	
SCALE:	5 : 1 "A"	PART DWG. NO:	A6202
CUST. PART NO:	6202	DIE NO:	6202

Architectural Testing

AAMA/WDMA/CSA 101/I.S.2/A440-05 AND
ANSI/AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

VINYLITE WINDOWS

SERIES/MODEL: Diplomat Single Hung
PRODUCT TYPE: PVC Single Hung Window (Tape Glazed)

Title	Summary of Results
AAMA/WDMA/CSA 101/I.S.2/A440-05 Rating	H-R50 1118 x 1600 (44 x 63)
ANSI/AAMA/NWWDA 101/I.S.2-97 Rating	H-R50 44 x 63
Design Pressure	±2400 Pa (±50.16 psf)
Operating Force (in motion)	102 N (23 lbf)
Air Infiltration	0.65 L/s/m^2 (0.13 cfm/ft^2)
Water Penetration Resistance Test Pressure	360 Pa (7.52 psf)
Uniform Load Structural Test Pressure	±3600 Pa (±75.24 psf)
Forced Entry Resistance	Grade 10

Test Completion Date: 12/13/07

Reference must be made to Report No. 79400.04-501-47, dated 04/08/11 for complete test specimen description and data.

1140 Lincoln Avenue
Springdale, PA 15144
phone: 724-275-7100
fax: 724-275-7102
www.archtest.com

Architectural Testing

AAMA/WDMA/CSA 101/I.S.2/A440-05 and ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

VINYLITE WINDOWS
1020 International Drive
Fergus Falls, Minnesota 56537

Report No.:	79400.04-501-47
Test Date:	12/12/07
And:	12/13/07
Report Date:	04/08/11
Expiration Date:	12/12/11

Project Summary: Architectural Testing, Inc. was contracted by Deceuninck North America, LLC to witness testing on one Series/Model 142.094 SH DP50 Sill, single hung window at the Deceuninck North America, LLC test facility in Monroe, Ohio. The sample tested successfully met the performance requirements for an AAMA/WDMA/CSA 101/I.S.2/A440-05, H-R50 1118 x 1600 (44 x 63) and ANSI/AAMA/NWWDA 101/I.S.2-97, H-R50 44 x 63 rating. This report is a reissue of the original Report No. 79400.01-501-47. This report is reissued in the name of Vinylite Windows through written authorization of Deceuninck North America LLC. Test specimen description and results are reported herein. The sample was provided by the client.

Test Specifications: The test specimen was evaluated in accordance with the following:

AAMA/WDMA/CSA 101/I.S.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights.*

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: Diplomat Single Hung

Product Type: PVC Single Hung Window

1140 Lincoln Avenue
Springdale, PA 15144
phone: 724-275-7100
fax: 724-275-7102
www.archtest.com

Test Specimen Description: (Continued)

Overall Size: 1118 mm (44") wide by 1600 mm (63") high

Operable Sash Size: 1035 mm (40-3/4") wide by 781 mm (30-3/4") high

Fixed Daylight Opening Size: 991 mm (39") wide by 714 mm (28-1/8") high

Screen Size: 1019 mm (40-1/8") wide by 752 mm (29-5/8") high

Overall Area: 1.8 m^2 (19.25 ft^2)

Finish: All vinyl was white.

Frame Construction: The extruded PVC frame was of mitered and welded corner construction. The sill/jamb intersections were also mechanically fastened with two #8 x 13 mm (1/2") pan head screws, one at each corner. The fixed meeting rail was secured to each jamb using a plastic bracket (drawing #E-12512). Each bracket was secured to the jamb using two #8 x 22 mm (7/8") countersunk screws, and to the reinforcement in the fixed rail with one #8 x 25 mm (1") pan head screw.

Sash Construction: The extruded PVC sash was of mitered and welded corner construction.

Weatherstripping:

Description	Quantity	Location
4.7 mm (0.187") backed by 7.4 mm (0.290") high center fin pile	1 Row	Sill, lock rail
4.7 mm (0.187") backed by 7.4 mm (0.290") high center fin pile	2 Rows	Stiles
7.9 mm (5/16") dia. foam-filled/ vinyl jacket bulb with flexible leaf and offset base	1 Row	Bottom rail

Test Specimen Description: (Continued)

Glazing Details: The sash was exterior glazed and the fixed light was interior glazed with nominal 19 mm (3/4") thick, sealed insulating glass fabricated from two sheets of 3 mm (1/8") thick clear annealed glass and a butyl spacer material with stainless steel substrate, single sealed. All insulating glass was set against 13 mm (1/2") wide double-sided adhesive tape and secured with vinyl glazing beads.

Drainage:

Description	Quantity	Location
9.5 mm (3/8") long by 4.8 mm (3/16") wide weepslot	4	Bottom rail, two in the glazing track and two on the bottom surface, all 83 mm (3-1/4") from each end
19 mm (3/4") long by 4.8 mm glazing (3/16") wide weepslot	4	Fixed meeting rail, two in the track and two on the bottom surface all 194 mm (7-5/8") from each end
51 mm (2") long by 3 mm (1/8") high weep notch	2	Sill exterior screen track leg, one at each end
63 mm (2-1/2") long by 3 mm (1/8") high weep notch	2	Sill interior screen track leg, one at each end
25 mm (1") long by 3.2 mm (1/8") wide weepslot	2	Sill, 89 mm (3-1/2") in from outside

Hardware:

Description	Quantity	Location
Metal cam lock	2	Lock rail, one 3.5 mm (12") in from each end
Metal keeper	2	Fixed rail, one 298 mm (11-3/4") in from each end

Test Specimen Description: (Continued)

Hardware: (Continued)

Flush mounted plastic tilt latch	2	Top corners of sash
Metal pivot bars	2	Bottom corners of sash
Constant force Balance	2	Sash track of jambs

Reinforcement: The fixed rail contained a custom-shaped extruded aluminum reinforcement, reference Deceuninck Drawing No. A6189. All sash members contained a custom-shaped extruded aluminum reinforcement, reference Deceuninck Drawing No. 10006202.

Screen Construction: The screen was constructed from roll-formed aluminum, square-cut and secured with a plastic corner keys. The fiber mesh screen was held-in-place with a flexible vinyl spline.

Installation: The unit was installed into a wood buck constructed from Spruce-Pine-Fir construction lumber and secured through the nail fin using #8 x 16 mm (5/8") long pan head screws, spaced approximately 152 mm (6") on center, beginning in each corner.. The exterior nail fin perimeter was sealed with a silicone caulking.

Test Results: The temperature during testing was 21°C (70°F). The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
5.3.1	Operating Force per ASTM E 2068		
2.2.1.6.1	Initiate motion	111 N (25 lbf)	Report Only
	Maintain motion	102 N (23 lbf)	135 N (30 lbf)
	Latches	4 N (1 lbf)	100 N (22.5 lbf)
	Locks	22 N (5 lbf)	100 N (22.5 lbf)
5.3.2.1	Air Leakage Resistance per ASTM E 283		
2.1.2	75 Pa (1.6 psf)	0.65 L/s/m^2 (0.13 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.

Note #1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440-05 and ANSI/AAMA/NWWDA 101/I.S.2-97 for air leakage resistance.

5.3.3.2 2.1.3	Water Penetration Resistance per ASTM E 547	See Note #2
5.3.4.2 2.1.4.1	Uniform Load Deflection per ASTM E 330	See Note #2
5.3.4.3 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".

5.3.5 2.1.8	Forced Entry Resistance per ASTM F 588		
	Type: A	Grade: 10	
	Disassembly Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Sash/Panel Manipulation Test	No entry	No entry
	Lock Hardware Manipulation Test	No entry	No entry

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
5.3.6.2 2.1.7	Thermoplastic Corner Weld Test	Meets as stated	Meets as stated
5.3.6.3 2.2.1.1.2	Deglazing Test In operating direction - 320 N (70 lbf)		
	Meeting rail	2.5 mm (0.10")	11.4 mm (0.45")
	Bottom rail	2.5 mm (0.10")	11.4 mm (0.45")
	In remaining direction - 230 N (50 lbf)		
	Left stile	2.0 mm (0.08")	11.4 mm (0.45")
	Right stile	1.8 mm (0.07")	11.4 mm (0.45")
Optional Performance			
4.4.2.6 4.3	Water Penetration Resistance per ASTM E 547 (with and without insect screen) 360 Pa (7.52 psf)	No leakage	No leakage
4.4.2.6 4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	2400 Pa (50.16 psf) (positive)	14 mm (0.56")	See Note #3
	2400 Pa (50.16 psf) (negative)	12 mm (0.49")	See Note #3
4.4.2.6 4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	3600 Pa (75.24 psf) (positive)	2.0 mm (0.08")	4.1 mm (0.16") max.
	3600 Pa (75.24 psf) (negative)	1.0 mm (0.04")	4.1 mm (0.16") max.

Note #3: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440-05 and ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

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.

Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen reported herein.

List of Official Observers:

Name	Company
Dean Erbaugh	Deceuninck North America, LLC
Corey Eisenhuth	Architectural Testing, Inc.

This report is reissued in the name of Vinylite Windows through written authorization of Deceuninck North America LLC to whom the original report was rendered. The original Deceuninck North America LLC Report No. is 79400.01-501-47.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

Results obtained are tested values and were secured by using the designated test methods. No conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen 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.

Corey A. Eisenhuth
Digitally Signed by: Corey A. Eisenhuth
Senior Technician

Lynn George
Digitally Signed by: Lynn George
Director – Regional Operations

CAE:sld

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Alteration Addendum (1)
Appendix-B: Drawings (17)

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	04/08/11	N/A	Original report issue – Reissued Report No. 79400.01-501-47 in the name of Vinylite Windows.

Appendix A

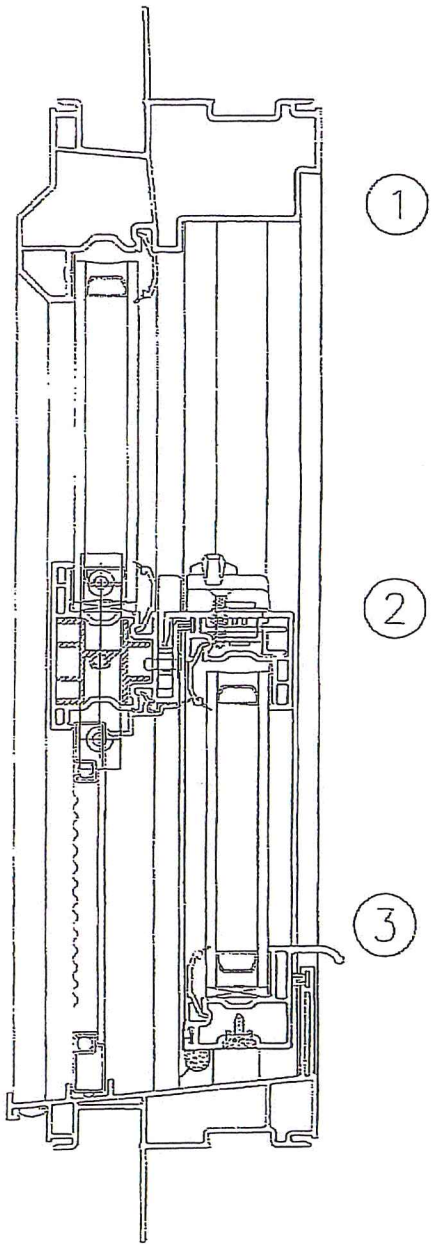
Alteration Addendum

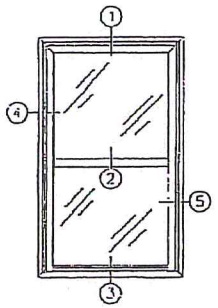
Note: No alterations were required.

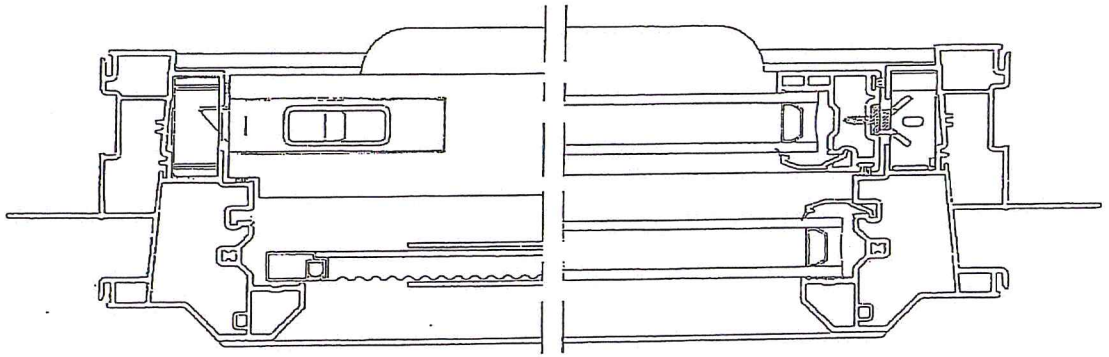
Appendix B

Drawings

REV	DATE	DESCRIPTION	BY







Architectural Testing

Test Sample Complies with these details. Deviations are noted.

Report# 79-73400.01-501-47

Date 12-19-07 Tech CAE

NOTES:

1. This print contains proprietary information. Do not copy without express written consent of DAYTON TECHNOLOGIES
2. DAYTON TECHNOLOGIES reserves the right to change specifications.
3. Assembly prints are intended to be guidelines only. See detail prints for actual construction.

DAYTON TECHNOLOGIES

MONROE, OHIO

NAME:	142 094 Single Hung
DRAWN BY: RH	DATE: 6/07/99
CHECKED BY:	DATE:
SCALE: 1 : 1 "C"	
PART OR ASSY NO.	142094SH

142.000 SH-001 FRAME - BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
1	HEAD	1	10008676	P8676F01	A
2	SILL (DP-50)	1	10008672	10008672F02	A
3	JAMB	2	10008675	10756-0	A
4	FIXED MEETING RAIL	1	10008511	10757-0	A
5	GLAZING BEAD	4	10005470	STRAIGHT CUT	A
6	SCREEN RETAINER (2-3" PIECES)	2	10008263	STRAIGHT CUT	A
7	BALANCE COVER	2	10005104	STRAIGHT CUT	A
8	SASH STOP	2	10008487	STRAIGHT CUT	A
9	FIXED MEETING RAIL REINFORCEMENT	1	10300084	STRAIGHT CUT	PROFILE DESIGN
10	FIXED MEETRING RAIL ANCHOR	2	79543 (INCLUDES GASKET)		D
11	CENTERFIN WEATHERSTRIPPING	AS REQ'D	.187 BK X .290 HT		F, I
12	3/4" INSULATED GLASS	1	REFER TO TEST REPORT		TBD
13	GLAZING COMPOUND	AS REQ'D	REFER TO TEST REPORT		TBD
14	SETTING BLOCKS (REFER TO IG SUPPLIER GUIDELINES)	AS REQ'D	REFER TO TEST REPORT		TBD
15	SCREEN ASSEMBLY	1	3/8" X 3/4"		GGG
16	MEETING RAIL ANCHOR TO JAMB SCREWS	4	#8 X 1" PFH		TBD
17	MEETING RAIL REINF. TO JAMB SCREWS	2	#8 X 3" TRUSS HEAD		TBD
18	SILL TO JAMB SCREWS (OPTIONAL)	2	#8 X 3/4" PPH		TBD
19					
20	SNUBBER (AT SILL)	2	20118		G
21	SNUBBER (AT SILL) SCREWS	4	#8 X 3/8" PFH		TBD
22					
23	BALANCE SYSTEM	2			AAAA
24	.485" X 1.250" W/BMF PAD	2	S-A485BMF23		AAAA
25	1/2" TOP SPRING COVER	2	S-TCOVER		AAAA
26	1/2" STACKING SPRING COVER	0 TO 8	S-SCOVER		AAAA
27	1/2" COVER MOUNTING SCREW	2	S-CSCREW		AAAA
28	BALANCE SCREWS	2 TO 10	#8 X 1" PFH		TBD
29	H-KEY	2	HKEY 562x345-00L / HKEY 62x345-00R	00 = WHITE OR BEIGE	W W W
30	H-KEY SCREWS	2	#6 X 1/2" PPH		TBD
31	H-KEY COLORS FROM HILL DESIGN		17 = WHITE / 21 = BEIGE		
32	KEEPER	2	677147		I I
33	KEEPER SCREWS	4	#8 X 1/2" PFH		TBD
35	H-KEY COLORS FROM HILL DESIGN		17 = WHITE / 21 = BEIGE		
35	INSTALLATION DETAILS	AS REQ'D	REFER TO TEST REPORTS		

Architectural Testing
Test sample complies with these details. Deviations are noted.
Report# [illegible]
Date 2-19-07
Tech CAE

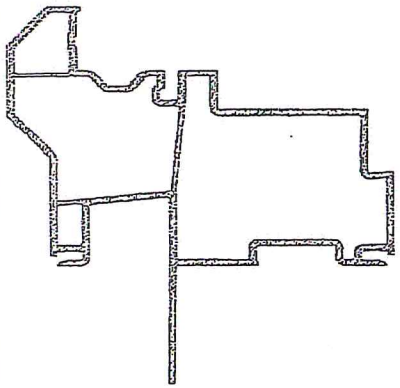
REV	DATE	DESCRIPTION	BY

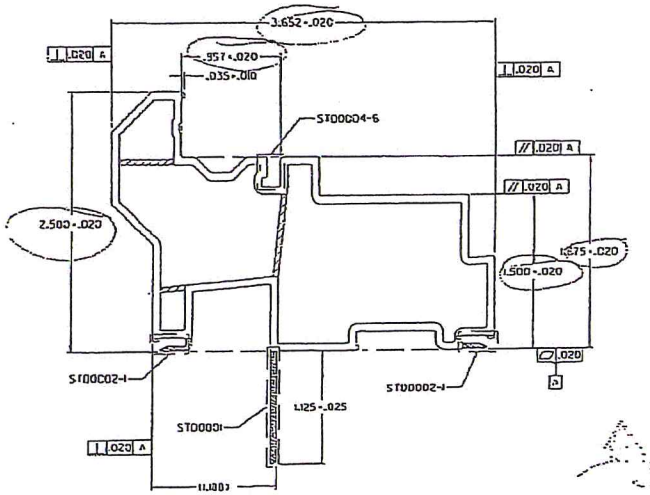
deceuninck NORTH AMERICA

MONROE, OH	COPYRIGHT 2006
NAME:	142000SH-001 BOM
DWN BY:	CRB
CHKD BY:	CRB
DWG NO:	142000SH-001.xls

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
E	GDT-3	07/08/27	BWB





WALL THICKNESS

.07C -

.08Z -

.09C -

.05D -

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 79400.01-501-97

Date 12-19-07 Tech CAE

NOTES:

1. "STD0001" STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY
2. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.305
3. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.305
4. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10Z
5. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20Z

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DECEUNINCK NORTH AMERICA

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL = 0.010" 3 PL = 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	MTC
DATE:	99/06/07
DRAWN BY:	MTC
DATE:	99/06/07
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	10008676_SH.DGN

deceuninck NORTH AMERICA

NAME: HEAD FRAME - SH

SIZE B | DWG. NO: 10008676 | REV. E

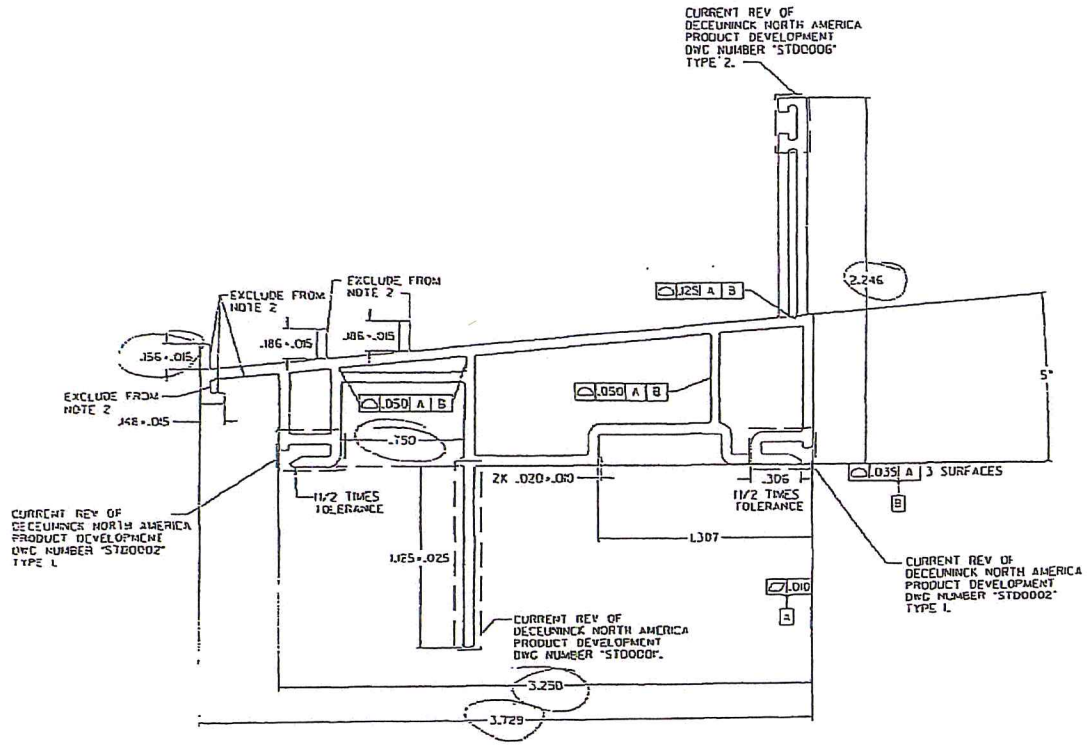
SCALE: 1:1 | WEIGHT: .725 | SHEET 1 OF 1

12/13/2007 usuly

H:\pd\nasv0\ITEM DETAIL PRINTS\8676\D008676_SH.DGN

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
D	CHANGE TO SINGLE SHEET FORMAT	05/06/29	JCM

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



Test sample complies with these details. Deviations are noted.
Report# 7400.01-501-47
Date 12-19-07 Tech CAE

NOTES:

1. PERFECT FORM NOT REQUIRED AT MMC.
2. UNLESS OTHERWISE SPECIFIED ⌓ .040 A B, ∠ .020 A B ALL OVER EXCEPT INTERNAL HOLLOWS.
3. ALL BASIC DIMENSIONS INCORPORATED IN ENGINEERING CAD FILE.
4. PROFILE OF A SURFACE FEATURE CONTROLS ARE OVER 1 UNIT LENGTH BASIC.
5. SEE CURRENT REV OF DNA INFO-FOR EXPLANATION OF PART IDENTIFICATION NUMBER.
6. SEE CURRENT REV OF DNA PRODUCT DEVELOPMENT DRG. NUMBER "STD0001" STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY.
7. DIM "A" IS LENGTH OF PART PER "STD0015" AND CAN BE ANY NUMERIC CHARACTER.
8. SPECIFICATION 10008672 REV NEW APPLIES.
9. PACKAGING ARRANGEMENT 10008672PA REV A APPLIES.
10. UNSPECIFIED EXTERNAL RADII = CR .015 +.010 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
11. UNSPECIFIED INTERNAL RADII = CR .015 +.020 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
12. UNSPECIFIED EXTERNAL WALL THICKNESS = .052 - .072
13. UNSPECIFIED INTERNAL THICKNESS = .040-.060

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL= 0.010" 3 PL= 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	CRB	
DATE:	02/05/18	
DRAWN BY:	CRB	
DATE:	02/06/18	
AUTH:		DATE:
AUTH:		DATE:
AUTH:		DATE:
FILENAME:	10008672_SH.DGN	

deceuninck NORTH AMERICA

NAME: SILL FRAME SH/DH (R50)

SIZE	DWG. NO:	REV.
C	10008672	C

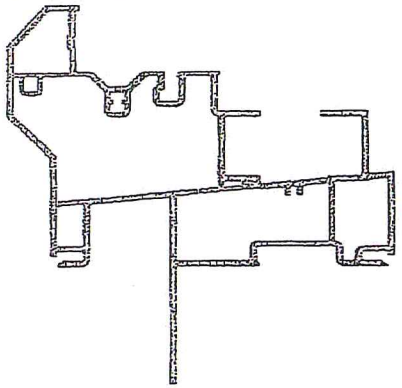
SCALE: 2 : 1 | WEIGHT: 1.85/FT.) .601 | SHEET: 1 OF 1

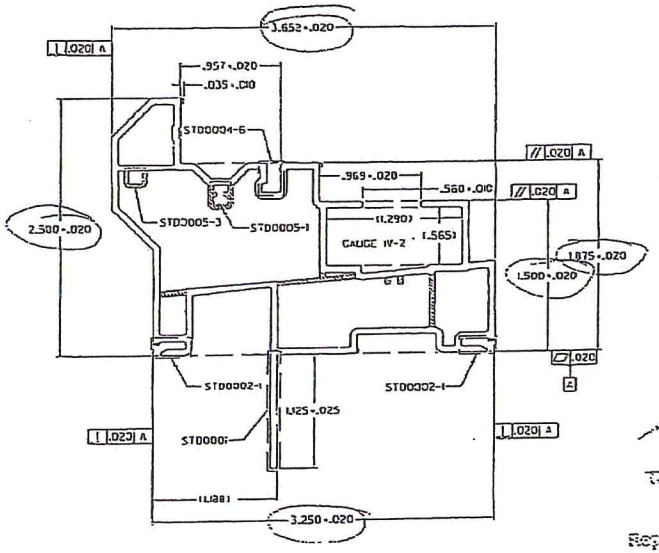
12/13/2007

H:\pdf\save\10008672\10008672_SH.IGS

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
J	CO1-3	07/08/27	BAB





WALL THICKNESS

.062 -

.050 -

.050 -

.040 -

Architectural Testing

Test sample complies with these details. Deviations are noted.

Report# 7900.01-501-47

Date 12-17-07 Tech CAE

NOTES:

1. "STD0003" STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY
2. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005
3. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005
4. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10%
5. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20%

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UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL= 0.010" 3 PL= 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	MTC
DATE:	99/06/03
DRAWN BY:	MTC
DATE:	99/06/03
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	10008675_SH.DGN

deceuninck NORTH AMERICA

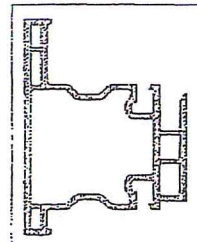
MAIN FRAME - SH

SIZE	DWG. NO.	REV.
B	10008675	J

SCALE: 1:1 | WEIGHT: 1.85/FT | .785 | SHEET: 1 OF 1

12/13/2007 11:51:17

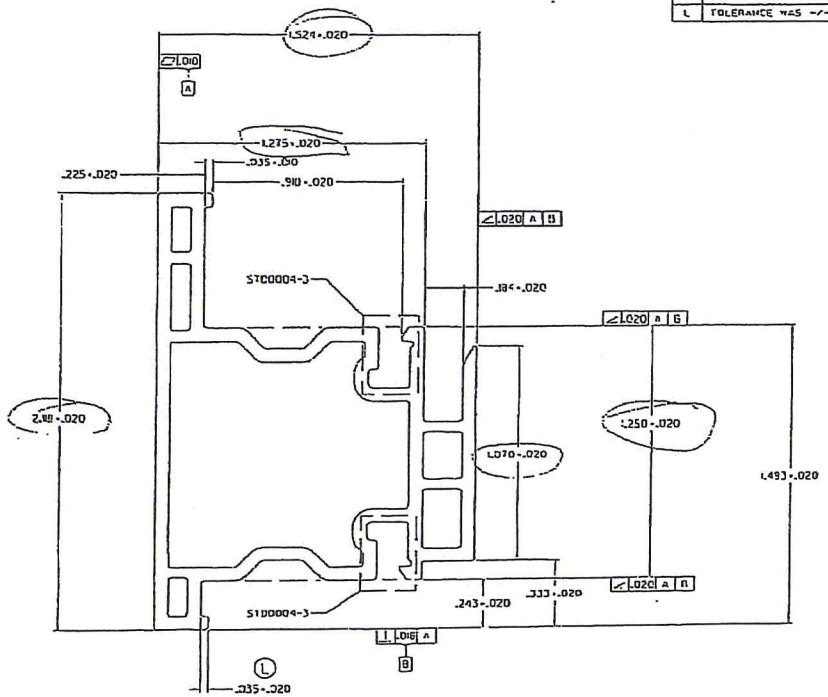
H:\pdt\asw\ITEM DETAIL PRINTS\8675\10008675_SH.DGN



SCALE 1:1

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
J	CHANGED TO ONE PAGE PRINT	05/12/01	BWB
K	CDI-1	06/07/18	BWB
L	TOLERANCE WAS +/- .010	06/08/28	MTC



Test Sample checked with above details. Test results are noted.

Report # 79400.01-501-47

Date 12-14-07 Tech CAF

NOTES:

1. ST00004 STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY
2. INTERPRET ALL TOLERANCE APPLICATIONS PER ST00001
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10%
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20%

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UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = ±°
2 PL = 0.00° 3 PL = 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	MTC
DATE:	93/08/20
DRAWN BY:	TJH
DATE:	03/08/27
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	1000858-L SH.dgn

deceuninck NORTH AMERICA

NAME: MEETING RAIL

SIZE	DWG. NO:	REV.
B	1000858_SH	L

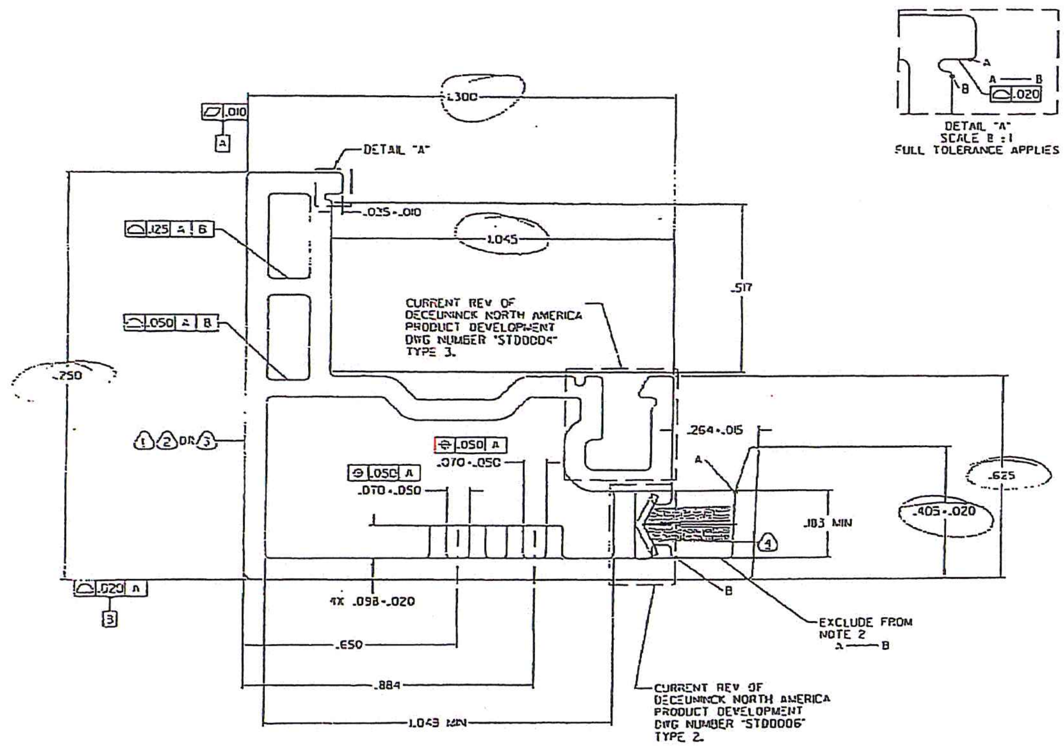
SCALE: 2 : 1 | LBS/FT: 1.180 | SHEET: 1 OF 1

12/13/2007

H:\pdmsv8\VITEN DETAIL PRINTS\05111\1000858-L SH.dgn usrlfy

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
K	CHANGE TO SINGLE SHEET FORMAT	05/07/27	JCM

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



Architectural Testing
Test sample complies with these details. Deviations are noted.
Report# 79400.01-501-47
Date 12-19-07 Tech CAE

NOTES:

1. PERFECT FORM NOT REQUIRED AT MMC.
2. UNLESS OTHERWISE SPECIFIED [profile .040 A B / angularity .020 A B] ALL OVER EXCEPT INTERNAL HOLLOWS.
3. ALL BASIC DIMENSIONS INCORPORATED IN ENGINEERING CAD FILE.
4. PROFILE OF A SURFACE FEATURE CONTROLS ARE OVER 1" UNIT LENGTH BASIC.
5. SEE CURRENT REV OF DNA INF NI-1 FOR EXPLANATION OF PART IDENTIFICATION NUMBERS.
6. SEE CURRENT REV OF DNA PRODUCT DEVELOPMENT DWG. NUMBER "STD0003" STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY.
7. DIM "A" IS LENGTH OF PART PER "STD0003" AND CAN BE ANY NUMERIC CHARACTER.
8. SPECIFICATION 10008895 REV NEW APPLIES.
9. PACKAGING ARRANGEMENT 10008895PA REV NEW APPLIES.
10. UNSPECIFIED EXTERNAL RADII= CR .015 +.010 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
11. UNSPECIFIED INTERNAL RADII= CR .015 +.020 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
12. UNSPECIFIED EXTERNAL WALL THICKNESS = .055 - .075
13. UNSPECIFIED INTERNAL THICKNESS = .040 - .050

SEE SEPARATE PARTS LIST

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UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES
TOL ON ANGLES ± 1°
2 PL: ± 0.010" 3 PL: ± 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	RH
DATE:	94/02/08
DRAWN BY:	TJM
DATE:	02/10/02
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	10008895_SH.dgn

deceuninck NORTH AMERICA

NAME: LOCK RAIL - SH

SIZE: C DWG. NO: 10008895_SH REV: K
SCALE: 4 : 1 LBS/FT .260 SHEET: 1 OF 1

000.094 SH BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
26	LOCK RAIL	1	P8895	P8895-F-06	A
27	STILE	2	P8875	P8875-F-09	A
28	BOTTOM LIFT RAIL	1	P8894	P8894F03	A
29					
30	BULB SEAL	1	P8206	P8206F01	A
31	HORIZONTAL GLAZING BEAD	2	P5473	P5473F01	A
32	VERTICAL GLAZING BEAD	2	P5473	P5473F01	A
33	PIVOT BAR				
34	For Crossbow Balance	2	13037		D
35	For Coil Balance	2	13036		D
36	SASH REINFORCEMENT	1	A6202	A6202-F-01	EEE, OOO
37	CENTER FIN WEATHERSTRIPPING	AS REQ'D	.187 BK. x .290 HT.		F, I
38					
39	LOCK ASSEMBLY	1 OR 2	L29990010002R - NO NIBS		D
	LOCK ASSEMBLY	1 OR 2	L29990110002R - NESTING NIBS		D
	LOCK ASSEMBLY	1 OR 2	L2999001AM1R - NO NIBS / ALLIANCE LOGO		D
	LOCK ASSEMBLY	1 OR 2	L2999011AM1R - NESTING NIBS / ALLIANCE LOGO		D
40	TILT LATCH ASSEMBLY	2	78050 / 78150		D
41					
42	3/4" INSULATED GLASS	1			
43	SETTING BLOCKS (Refer to IG Supplier Guidelines)	AS REQ'D	1/8" x 3/4"		W
44	GLAZING COMPOUND	AS REQ'D			T
45	LOCK SCREW	2 OR 4	#8 x 3/4" PFH		B, Z
46					
47	PIVOT BAR SCREW - RAILS	2 or 4	#6 x 3/8" PPH		B, Z
48	PIVOT BAR SCREW - STILES	2	#6 x 1/2 PFH		B, Z
49					
50					

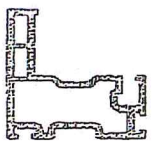
Rev	Date	Description	By
A	10/28/1999	Updated Pivot Bar Callout	RH
B	11/16/1999	Updated Revision For Distribution	RH
C	12/21/1999	UPDATED LOCK INFO.	CRB
D	1/19/2000	UPDATED LOCK INFO.	RH

Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report # 29400.01-501-47
2-12-07 Tech CAE

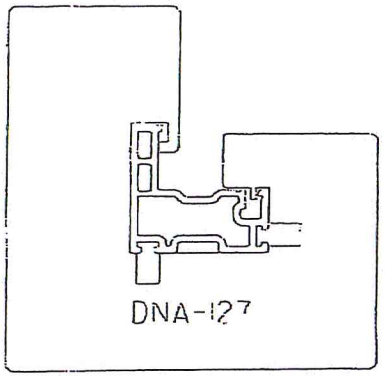
DAYTON TECHNOLOGIES		
MONROE, OH		COPYRIGHT 1999
NAME:	000.094 SH (std)	
DWN BY:	RH	6/29/1999
CHKD BY:		
DWG NO:	000094SH-001.xls	

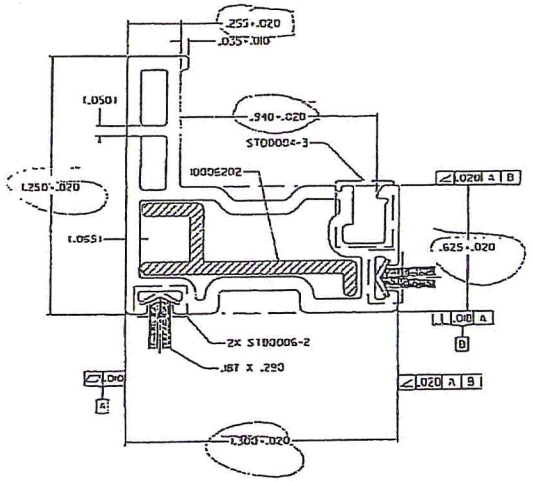
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
R	COT-3	07/07/25	BWB



SCALE 1:1





Anti-Thermal Testing

Test sample complies with these details.
Deviations are noted.

Report# 79400.01-501-47

Date 12-19-07 Tech CAE

NOTES:

1. STOD003 STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STOD003
3. UNSPECIFIED EXTERNAL RADII = .XXX +.03 / -.005
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10%
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20%

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DECEUNINCK NORTH AMERICA

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL= ± 0.010" 3 PL= ± 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	RH	
DATE:	94/02/10	
DRAWN BY:	CRB	
DATE:	94/02/10	
AUTH:	DATE:	
AUTH:	DATE:	
AUTH:	DATE:	
FILENAME:	10008875_SH.DGN	

deceuninck NORTH AMERICA

NAME: MAIN SASH

SIZE	DSC. NO:	REV.
B	10008875_SH	R

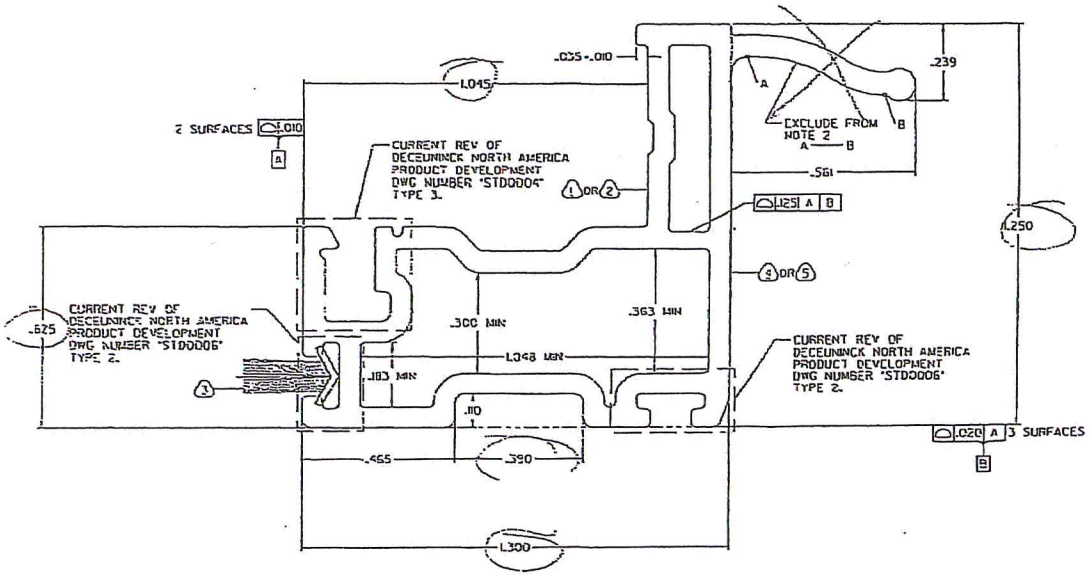
SCALE: 2 :1 | LBS/FT.: .243 | SHEET: 1 OF 1

12/13/2007

H:\pdf_nsv\ENTEN DETAIL PRINTS\8875\10008875_SH.DGN

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
E	CHANGE TO SINGLE SHEET FORMAT	05/07/27	JGM

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



Architectural Testing

Test sample complies with these details. Deviations are noted.

Report# 29400.01-501-47

Date 12-19-07 Tech CAE

NOTES:

1. PERFECT FORM NO" REQUIRED AT MMC.
2. UNLESS OTHERWISE SPECIFIED ⌓ .040 A B / ∠ .020 A B ALL OVER EXCEPT INTERNAL HOLLOWS.
3. ALL BASIC DIMENSIONS INCORPORATED IN ENGINEERING CAD FILE.
4. PROFILE OF A SURFACE FEATURE CONTROLS ARE OVER FUNIT LENGTH BASIC.
5. SEE CURRENT REV OF DNA INF NI-1FOR EXPLANATION OF PART IDENTIFICATION NUMBERS.
6. SEE CURRENT REV OF DNA PRODUCT DEVELOPMENT DWG NUMBER "STD0003" STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY.
7. DIM "A" IS LENGTH OF PART PER "STD0015" AND CAN BE ANY NUMERIC CHARACTER.
8. SPECIFICATION 10006894 REV NEW APPLIES.
9. PACKAGING ARRANGEMENT 10006894PA REV NEW APPLIES.
10. UNSPECIFIED EXTERNAL RADII= CR .015 +.010 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
11. UNSPECIFIED INTERNAL RADII= CR .015 +.020 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
12. UNSPECIFIED EXTERNAL WALL THICKNESS = .058 - .012
13. UNSPECIFIED INTERNAL THICKNESS = .060 - .060
14. ⬡ = BIND NUMBER RELATING TO THE PARTS LIST.

SEE SEPARATE PARTS LIST

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL= = 0.010" 3 PL= = 0.005"
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	RH/PJA
DATE:	99/06/02
DRAWN BY:	RH/PJA
DATE:	99/02/10
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	10006894_SH.dgn

deceuninck NORTH AMERICA

NAME: PULL/LIFT SASH

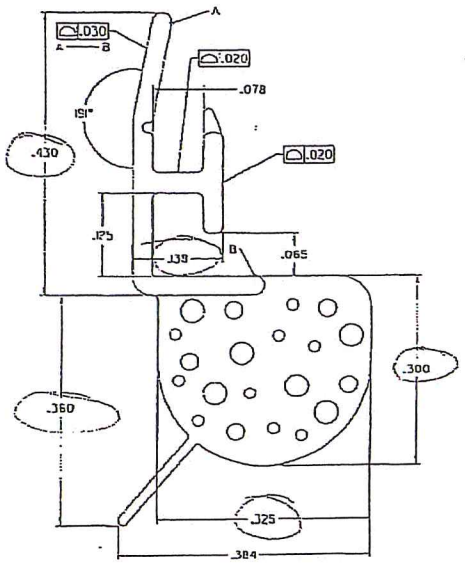
SIZE	DWG. NO:	REV.
C	10006894_SH	E

SCALE: 4 : 1 | LBS/FT.: .267 | SHEET: 1 OF 1

12/13/2007

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
C	CHANGED TO SINGLE PAGE FORMAT	05/10/10	BKB

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report 19400.01-901-47

Date 12-14-07 Tech CAF

NOTES:

1. PERFECT FORM NOT REQUIRED AT MMC.
2. ~~UNLESS OTHERWISE SPECIFIED .015 A B .020 A B ALL OVER EXCEPT INTERNAL HOLLOWS.~~
3. ALL BASIC DIMENSIONS INCORPORATED IN ENGINEERING CAD FILE.
4. PROFILE OF A SURFACE FEATURE CONTROLS ARE OVER FUND LENGTH BASIC.
5. SEE CURRENT REV OF DNA INF NH-IFOR EXPLANATION OF PART IDENTIFICATION NUMBERS.
6. SEE CURRENT REV OF DNA PRODUCT DEVELOPMENT DWG. NUMBER "STD00013" STRAIGHTNESS CLASS E AND LENGTH TOLERANCES APPLY.
7. DIM "A" IS LENGTH OF PART PER "STD0003" AND CAN BE ANY NUMERIC CHARACTER.
8. SPECIFICATION 10008206 REV NEW APPLIES.
9. PACKAGING ARRANGEMENT 10008206PA REV NEW APPLIES.
10. UNSPECIFIED EXTERNAL RADII = CR .015 +.010 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
11. UNSPECIFIED INTERNAL RADII = CR .015 +.020 / -.005 WHEN VIEWED WITHOUT MAGNIFICATION.
12. UNSPECIFIED EXTERNAL WALL THICKNESS = .025 - .035
13. ⬡ = FIND NUMBER RELATING TO THE PARTS LIST.

SEE SEPARATE PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES ± 1°
2 PL± 0.010" 3 PL± 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	JOE L
DATE:	97/06/12
DRAWN BY:	JOE L
DATE:	97/06/12
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	10008206_sh.dgn

deceuninck NORTH AMERICA

NAME: BULB SEAL

SIZE: C | DWG. NO: 10008206_SH | REV: C

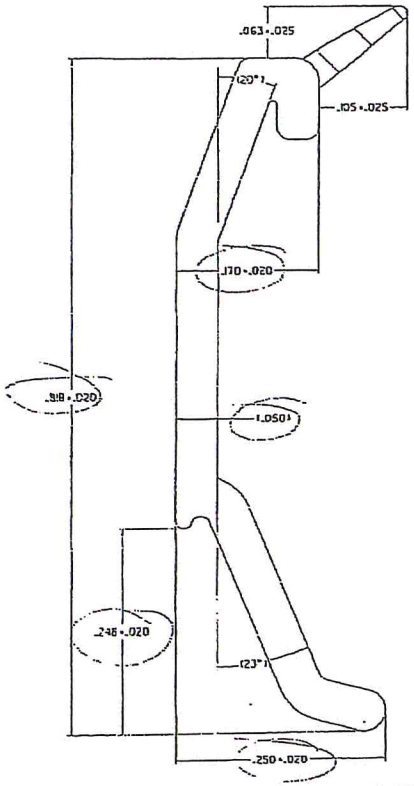
SCALE: 8 : 1 | WEIGHT: LBS/FT 1 .024 | SHEET: 1 OF 1

12/13/2007 8:54:47 H:\pfdata\10008206\10008206_sh.dgn

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
C	CHANGE TO SINGLE SHEET FORMAT	05/06/25	JCM
D	GDT-3	06/07/31	BWB

SCALE 4:1



Architectural Testing

Test sample complies with all see details.
Deviations are noted.

Report# 29400.01-501-47

Date 2-19-07 Tech CJE

NOTES:
1. "STD0003" STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0003
3. UNSPECIFIED EXTERNAL RADII= .XXX +.010 / -.005
4. UNSPECIFIED INTERNAL RADII= .XXX +.020 / -.005
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10%
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20%

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DECEUNINCK NORTH AMERICA

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UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL ON ANGLES = 1°
2 PL: ± 0.010" 3 PL: ± 0.005"
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

DESIGN BY:	PJA
DATE:	99/06/25
DRAWN BY:	PJA
DATE:	99/06/25
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	10005473_SH.DGN

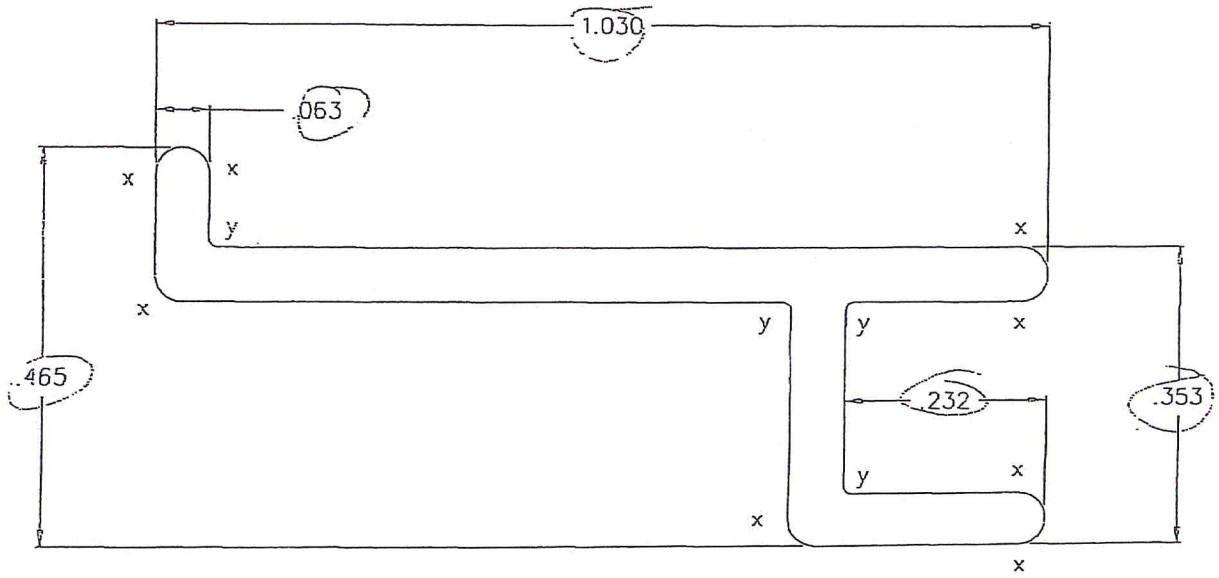
deceuninck NORTH AMERICA

NAME: GLAZING BEAD

SIZE: B | DWG. NO: 10005473_SH | REV: D

SCALE: 8 :1 | WEIGHT: .034 | SHEET: 1 OF 1

12/13/2007 usvly H:\pd\asvd\TEN DETAIL PRINTS\54-71\10005473_SH.DGN



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report 79400.01-501-97

Date 12-19-97 Tech CAE

Notes:
1) "x" = .030" radius
2) "y" = .010" radius

Area :	.103 Sq. In.
Weight :	.123 Lb./Ft.

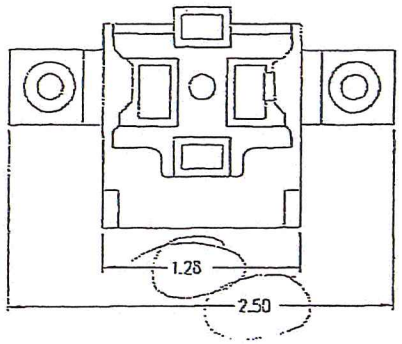
Standard Commercial Tolerances Apply Unless Otherwise Noted

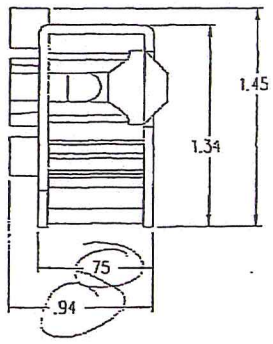
DAYTON EXTRUDED PLASTICS
SPRINGBORO, OHIO

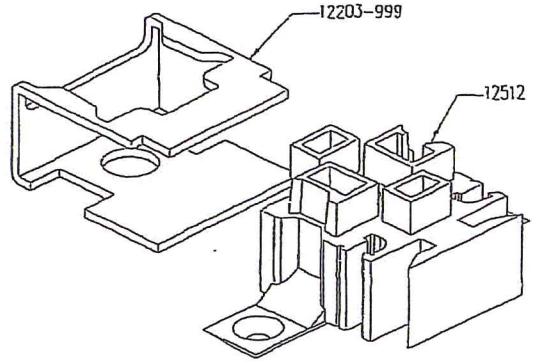
NAME:	0093 SASH REINFORCEMENT		
MATERIAL(S):	ALUMINUM		
DRAWN BY:	DAS	DATE:	3/22/94
CHECKED BY:		DATE:	
SCALE:	5 : 1 "A"	PART DWG. NO:	A6202
CUST. PART NO:	6202	DIE NO:	6202

PART E-79543-001 | REV. - | PAGE 1 / 1
DATE 12-05-05 | BY DC

REV.	BY	APP'D	DATE	REVISION







Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 79400.01-501-47

Date 12-30-07 Tech CAE

ASHLAND HARDWARE SYSTEMS
790 WEST COMMERCIAL AVENUE
LOWELL, INDIANA 46356
TELEPHONE NUMBER (219) 696-5950
24 HR. FAX (800) 626-1755

MULLION CLIP & GASKET ASSEMBLY

MATERIAL: - | BLEND: - | COLOR: -
CUSTOMER: -
DRAWN BY: DC | DATE: 12-05-05 | CK. BY: - | DATE: -
PROJ. #: - | PROD. #: -
COMPONENT: - | CAVITATION: -
CUBIC INCHES: -
TOLERANCES UNLESS OTHERWISE SPECIFIED | ANGLES: ±1° | DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED ON DRAWING
DECIMALS | ± TOLERANCE
1 PLC - X | .030
2 PLC - XX | .015
3 PLC - XXX | .005
DO NOT SCALE DRAWING
SCALE = 3/2 | SHEET 1 of 1
ASHLAND PART NUMBER

E-79543-001

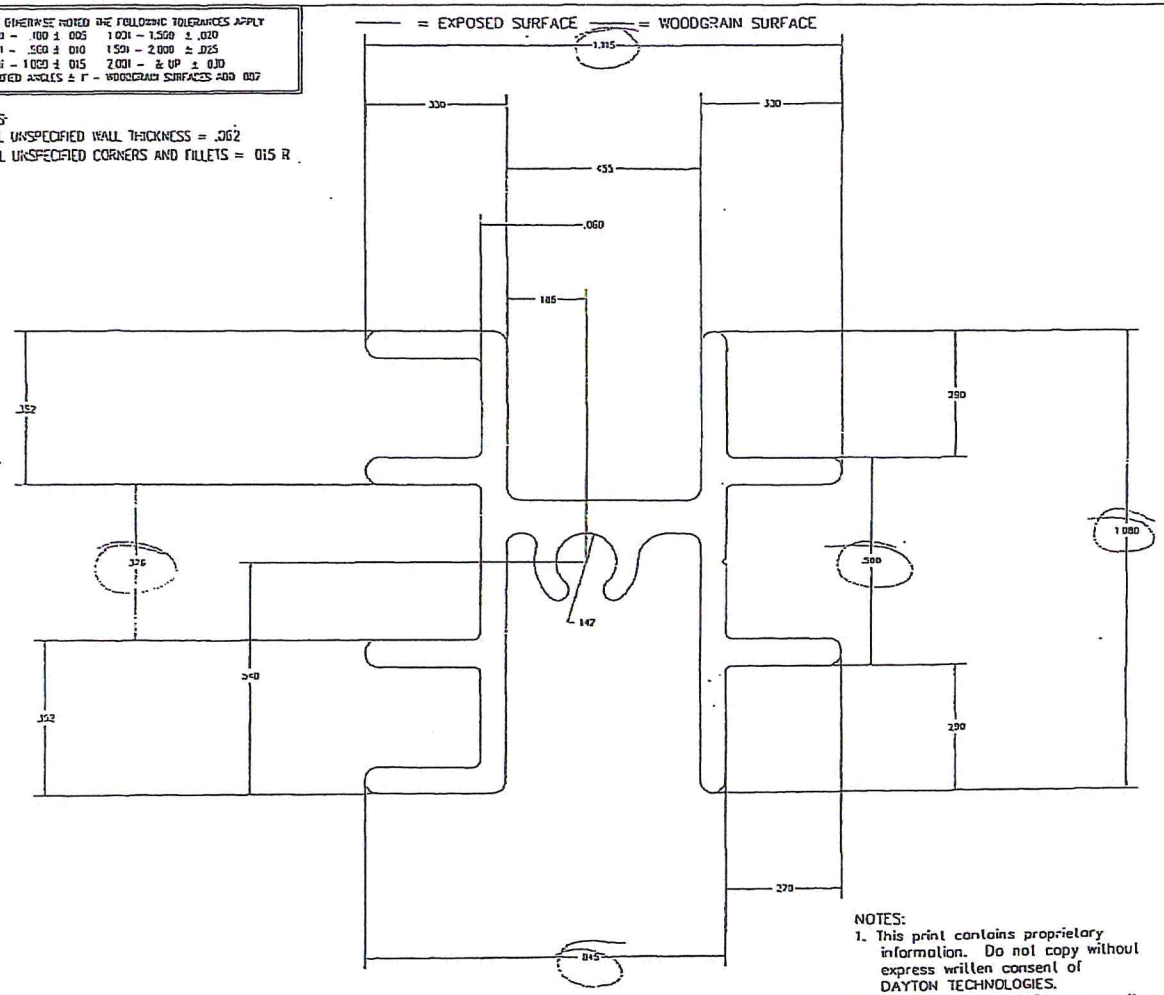
PRINTED: 12-05-05

PATENT NUMBER: - | STATUS: | INHERITED PATENTS: -

~ PATENT INFORMATION ~

UNLESS OTHERWISE NOTED THE FOLLOWING TOLERANCES APPLY
.001 – .100 ± .005 1.001 – 1.500 ± .020
.101 – .500 ± .010 1.501 – 2.000 ± .025
.501 – 1.000 ± .015 2.001 – & UP ± .030
UNSPECIFIED ANGLES ± 1° – WOODGRAIN SURFACES ADD .007

NOTES:
1. ALL UNSPECIFIED WALL THICKNESS = .062
2. ALL UNSPECIFIED CORNERS AND FILLETS = .015 R



REV.	DATE	DESCRIPTION	BY
⊟	--/--/--	-----	---

Final Dimensional Testing

Parts comply with these details.
Variations are noted.

Report# 79400.01-501-47
Date 12-20-02 Tech CAE

NOTES:
1. This print contains proprietary information. Do not copy without express written consent of DAYTON TECHNOLOGIES.
2. DAYTON TECHNOLOGIES reserves the right to change specifications.

Part Wt. (lbs/FT)	Rigid:	Cap:	Flex:	Alum:	Total
	----	-----	----	.341	.341
	----	----	----	----	----

DAYTON TECHNOLOGIES
AN ALCOA COMPANY
MONROE, OHIO

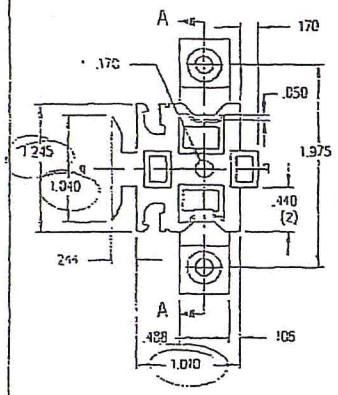
NAME:	MEETING RAIL REINFORCEMENT		
DRAWN BY:	CRB	DATE:	03/12/96
CHECKED BY:		DATE:	
SCALE:	4 : 1 "B"	COLOR:	☐ NN ☐ OS ☐ CE ☐ EH ☐ DIH
CUST PART NO.	-----	PART DWG NO.	A6189

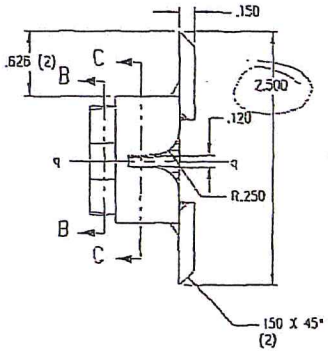
E-12512 | PAGE 1 / 1
12-05-05 | DC

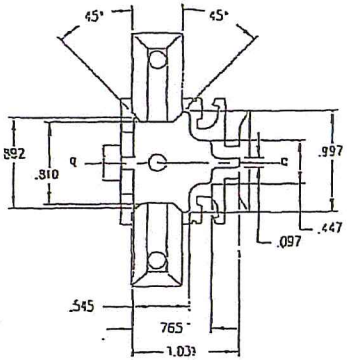
NOTES:

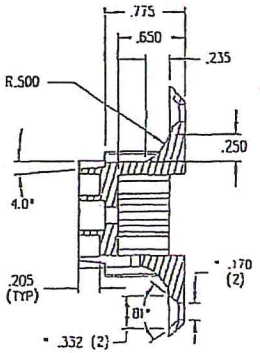
1. *DIMS TAKEN AT THEORETICAL INTERSECTION.
2. ANY UNSPECIFIED DIMENSIONS WILL BE CONTROLLED BY THE TOOLING MODEL
3. NO MORE THAN .004 MISMATCH/FLASH.
4. (DIMS) ARE REFERENCE
5. OVALED DIMS ARE INSPECTION
6. CAVITY I.D. REQUIRED
7. DIMENSIONS ARE SYMMETRICAL ABOUT ℄
8. DRAFT CORING WALLS ONLY 0.5° PER SIDE.

REV.	BY	APP'D	DATE	REVISION

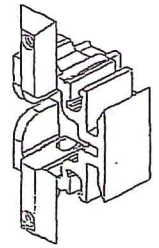


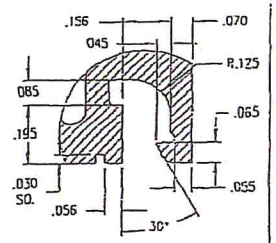




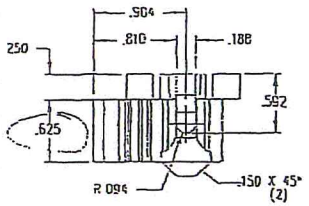


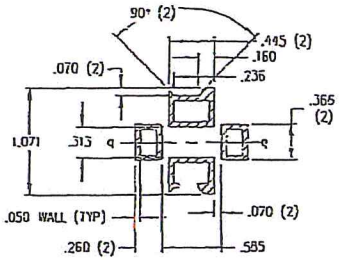
SECTION A-A



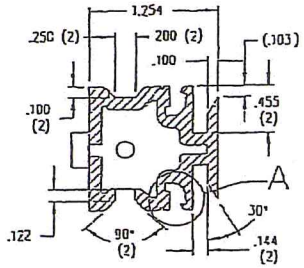


DETAIL A
SCALE 3 : 1





SECTION B-B



SECTION C-C

ASHLAND
ADVANCED HARDWARE SYSTEMS

790 WEST COMMERCIAL AVENUE
LOWELL, INDIANA 46356
TELEPHONE NUMBER (219) 696-5950
24 HR. FAX (800) 628-1758

MULLION CLIP

MATERIAL: NYLON	BLEND: -	COLOR: WHITE	
CUSTOMER: -			
DRAWN BY: DC	DATE: 12-05-05	CK. BY: -	DATE: -
CUBIC INCHES: 0.62	PROJ #: -	PROD. #: -	
	COMPONENT: -	CAVITATION: -	
	TOLERANCES UNLESS OTHERWISE SPECIFIED	ANGLES ±0°	DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED ON DRAWING
	DECIMALS	TOLERANCE	DO NOT SCALE DRAWING
	1 PLC - X	.030	
	2 PLC - XX	.015	SCALE = 1:1 SHEET 1 of 1
	3 PLC - XXX	.005	ASHLAND PART NUMBER
			E-12512

~ NOTICE ~
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PRINT DATE: 12-05-05

PATENT NUMBER - | STATUS: | INVENTED PATENTS: -

~ PATENT INFORMATION ~

NOTICE: We reserve the right to make design improvements without notice

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 79400.01-501-47

Date 12-20-07 Tech CAE

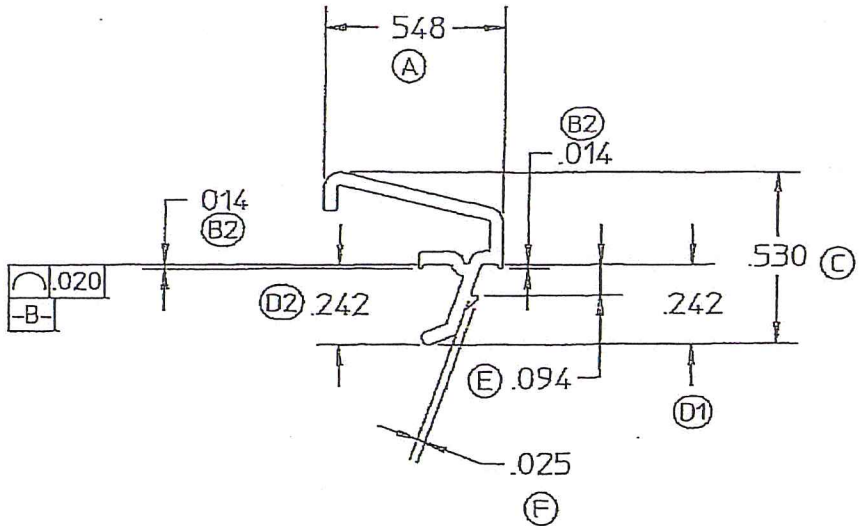
UNLESS OTHERWISE NOTED THE FOLLOWING TOLERANCES APPLY

.001 – .100	005	1.001 – 1.500	.020
.101 – .500	010	1.501 – 2.000	.025
.501 – 1.000	.015	2.001 – & UP	.030

UNSPECIFIED ANGLES 1° – WOODGRAIN SURFACES ADD .007

— —- EXPOSED SURFACE

——- WOODGRAIN SURFACE



Architectural Testing

This die style complies with these details. Deviations are noted.

Report 29400.01-301-47

Date 1-18-08 Tech CAE

NOTES

1. Wall Thickness – 040
2. Must mate with P8511 snugly

PROFILE P8268

REV.	DATE	DESCRIPTION	BY
A	3/15/00	Modified "C" (See Prev Rev)	RH
B	3/22/00	Removed Gauge From D, E, F	RH
C	3/22/00	Geometry Of A & C Altered	RH
D	5/12/00	Approval Print	RH

FITS WITH: P8511

BOW CLASS: B IMPACT AREA: --

CONTROL DIMENSIONS

DIM	METH	MIN	ENG	MAX	DIM	METH	MIN	ENG	MAX
A	OC	.528	.548	.558	P				
B(2)	OC	.009	.014	.019	Q				
C	OC	.525	.530	.555	R				
D(2)	OC	.202	.242	.242	S				
E	OC	.094	.094	.104	T				
F	OC	.012	.025	.025	U				
G					V				
H					W				
I					X				
J					Y				
K					Z				
L					AA				
M					BB				
N					CC				
O					DD				

COLOR WH [DS] EB EW [OTH] Pearl White

	RIGID	CAP	FLEX	ALUM	TOTAL
PART WT (LBS/FT)	.033	—	--	--	.033

Dayton Technologies

PART NAME:	Glazing Boot Screen Clip		
DRAWN BY:	RH	DATE:	2/9/00
CHECKED BY:	Eric Harkins	DATE:	5-12-00
DWG NO:	P8268-D	FILENAME:	pd/cad/parts/P8268
DIE/CAL NO:	–	SCALE:	2 : 1 A