

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

**Rendered to:**

**DECEUNINCK NORTH AMERICA, LLC**

**SERIES/MODEL: 310.300  
PRODUCT TYPE: Single Slider**

**Report No.: 55328.01-701-47  
Report Date: 01/10/05  
Expiration Date: 01/05/09**

**ANSI/AAMA/NWWDA 101/L.S.2-97  
TEST REPORT**

**Rendered to:**

**DECEUNINCK NORTH AMERICA, LLC**

**SERIES/MODEL: 310.300  
PRODUCT TYPE: Single Slider**

<b>Summary of Results</b>		
<b>Title</b>	<b>Test Specimen #1</b>	<b>Test Specimen #2</b>
Rating	H-R15 84 x 60	H-R20 96 x 60
Operating Force	25 lbf	N/A
Air Infiltration	0.09 cfm/ft <sup>2</sup>	N/A
Water Resistance Test Pressure	5.25 psf	N/A
Uniform Load Deflection Test Pressure	15.0 psf	20.0 psf
Uniform Load Structural Test Pressure	± 22.5 psf	± 30.0 psf
Deglazing	Passed	N/A
Forced Entry Resistance	Grade 10	N/A

<b>Summary of Results</b>		
<b>Title</b>	<b>Test Specimen #3</b>	<b>Test Specimen #4</b>
Rating	H-R20 72 x 48	H-R30 72 x 48
Operating Force	N/A	N/A
Air Infiltration	N/A	N/A
Water Resistance Test Pressure	N/A	N/A
Uniform Load Deflection Test Pressure	20.0 psf	30.0 psf
Uniform Load Structural Test Pressure	± 30.0 psf	± 45.0 psf
Deglazing	N/A	N/A
Forced Entry Resistance	N/A	N/A

Reference should be made to ATI Report No. 55328.01-701-47 for complete test specimen description and data.

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

Rendered to:

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

Report No.: 55328.01-701-47  
Test Date: 01/05/05  
Through: 01/07/05  
Report Date: 01/10/05  
Expiration Date: 01/05/09

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted by Deceuninck North America, LLC to witness testing on four Series/Model 310.300 single sliding windows at 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-R15 84" x 60" (XO); Test Specimen #2: H-R20 96" x 60" (XOX); Test Specimen #3: H-R20 72" x 48" (XO); Test Specimen #4: H-R30 72" x 48" (XO). Test specimen description and results are reported herein.

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

**Test Specimen Description:**

**Series/Model:** 310.300 SS-XO

**Product Type:** Horizontal Sliding XO

**Test Specimen #1:** H-R15 84 x 60 (XO)

**Overall Size:** 7' 0" wide by 5' 0" high

**Sash Size:** 3' 4-11/16" wide by 4' 9" high

**Daylight Opening:** 3' 2-1/4" wide by 4' 7-1/4" high

**Screen Size:** 3' 3-11/16" wide by 4' 8-1/4" high

**Test Specimen Description:** (Continued)

**Test Specimen #1:** H-R15 84 x 60 (Continued)

**Glazing Type:** 3/4 x 3/32 Swiggle spacer

**Reinforcement:** Aluminum reinforcement was utilized in the meeting stiles (lock and fixed stiles) (See Deceuninck North America, LLC Drawing #A6202).

**Test Specimen #2:** H-R20 96 x 60 (XOX)

**Overall Size:** 8' 0" wide by 5' 0" high

**Sash Size:** 2' 7-1/2" wide by 4' 8-5/8" high

**Daylight Opening:** 2' 4-1/2" wide by 4' 6-7/8" high

**Screen Size:** 3' 9-7/16" wide by 4' 7-3/4" high

**Glazing Type:** 3/4 x 3/32 Swiggle spacer

**Reinforcement:** Aluminum reinforcement was utilized in the sash stiles and fixed stile) (See Deceuninck North America, LLC Drawing #A6202).

**Test Specimen #3:** H-R20 72 x 48 (XO)

**Overall Size:** 6' 0" wide by 4' 0" high

**Sash Size:** 2' 10-3/4" wide by 3' 9" high

**Daylight Opening:** 2' 9" wide by 4' 7-1/4" high

**Screen Size:** 2' 8-3/8" wide by 3' 7-1/4" high

**Glazing Type:** 3/4 x 3/32 Swiggle spacer

**Reinforcement:** Aluminum reinforcement was utilized in the fixed meeting stile) (See Deceuninck North America, LLC Drawing #A6202).

**Test Specimen Description:** (Continued)

**Test Specimen #4:** H-R30 72 x 48 (XO)

**Overall Size:** 6' 0" wide by 4' 0" high

**Sash Size:** 2' 10-3/4" wide by 3' 9" high

**Daylight Opening:** 2' 9" wide by 4' 7-1/4" high

**Screen Size:** 2' 8-3/8" wide by 3' 7-1/4" high

**Glazing Type:** 3/4 x 3/32 Swiggle spacer

**Reinforcement:** Aluminum reinforcement was utilized in all sash stiles and fixed meeting stile (See Deceuninck North America, LLC Drawing #A6202).

*The following descriptions apply to all specimens.*

**Finish:** White PVC.

**Glazing Details:** The glass was set from the exterior against 1/16 x 3/8 double-sided adhesive glazing tape and secured with exterior PVC glazing beads.

**Weatherstripping:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.220" high by 0.187" back pile with center fin	2 Rows	Meeting stiles, pull stiles head, sill and jamb
0.220" high by 0.187" back pile with center fin	2 Rows	Top and bottom rails

**Frame Construction:** The frame was constructed of extruded PVC members with corners mitered and thermally welded.

**Sash Construction:** The sash was constructed of extruded PVC members with corners mitered and thermally welded.

**Screen Construction:** The screen frame was constructed of extruded aluminum with corners mitered with PVC corner keys. Fiberglass mesh was secured with a flexible spline.

**Test Specimen Description:** (Continued)

**Hardware:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Sweep lock		
84 x 60	2	6" from head and sill, 45" apart
96 x 60 (XOX)	4	6" from head and sill, 44-5/8" apart
72 x 48	2	6" from head and sill, 33" apart
Single rollers	2	1-1/2" from ends of bottom sash rails

**Drainage:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
1.00" wide by 0.125" high weep slot	4	Interior and exterior track draining to lower cavity
1.28" wide by 0.30" high weep slot	2	Exterior face with flap
0.36" wide by 0.30" high weep slot	8	Bottom rails
1.00" wide by 0.125" high weep slot	2	Interior leg of screen track

**Installation:** Test samples were installed into a nominal 2 x 10 #2 southern pine wood buck with #8 by 5/8" steel screws through the nailing fin, spaced 6" on center and 2" from each corner (44 total). Exterior perimeter was sealed with silicone.

**Test Results:**

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<b><u>Test Specimen #1:</u></b> H-R15 84 x 60 (XO)			
2.2.1	Operating Force	25 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.09 cfm/ft <sup>2</sup>	0.30 cfm/ft <sup>2</sup> max.
<i>Note #1: The tested specimen meets the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 (with and without screen) 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stiles (Loads were held for 52 seconds) 15.0 psf (positive) 15.0 psf (negative)	1.329" 1.216"	See Note #2 See Note #2
<i>Note #2: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.</i>			
2.1.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stiles) (Loads were held for 10 seconds) 22.5 psf (positive) 22.5 psf (negative)	0.188" 0.196"	0.221" max. 0.221" max.
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs  Lock stile Pull stile	0.02"/4% 0.02"/4%	0.50"/100% 0.50"/100%
	In remaining direction - 50 lbs  Top rail Bottom rail	0.02"/4% 0.02"/4%	0.50"/100% 0.50"/100%

**Test Results:** (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<b><u>Test Specimen #1:</u></b> H-R15 84 x 60 (XO) (Continued)			
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per ASTM F 588		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test 1 through 7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Optional Performance

4.3	Water Resistance per ASTM E 547 (with and without screen) 5.25 psf	No leakage	No leakage
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**Test Specimen #2:** H-R20 96 x 60 (XOX)

Optional Performance

4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stiles) (Loads were held for 52 seconds)		
	20.0 psf (positive)	1.383"	See Note #2
	20.0 psf (negative)	1.040"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stiles) (Loads were held for 10 seconds)		
	30.0 psf (positive)	0.184"	0.220" max.
	30.0 psf (negative)	0.175"	0.220" max.



**Test Results:** (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
<b><u>Test Specimen #3:</u></b> H-R20 72 x 48 (XX)			
<u>Optional Performance</u>			
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stiles) (Loads were held for 52 seconds)		
	20.0 psf (positive)	0.904"	See Note #2
	20.0 psf (negative)	0.835"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stiles) (Loads were held for 10 seconds)		
	30.0 psf (positive)	0.099"	0.173" max.
	30.0 psf (negative)	0.127"	0.173" max.

**Test Specimen #4:** H-R30 72 x 48 (XX)

Optional Performance

4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stiles) (Loads were held for 52 seconds)		
	30.0 psf (positive)	0.847"	See Note #2
	30.0 psf (negative)	0.919"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stiles) (Loads were held for 10 seconds)		
	45.0 psf (positive)	0.089"	0.173" max.
	45.0 psf (negative)	0.139"	0.173" max.

*Note: A lead check swab test was performed on all polymeric profiles. The test result was negative for the presence of lead (Pb).*

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

For ARCHITECTURAL TESTING, INC:

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Daniel P. Braun  
Regional Operations

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Daniel A. Johnson  
Regional Manager

DPB/jb

### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	01/10/05	N/A	Original report issue

# DAYTON TECHNOLOGIES

## ASSEMBLY CUTTING LOGIC

Model: **310300 SINGLE SLIDER**

Welded Frame

Welded Sash

CK'd By:  

Date: 13-Feb-04

<u>Profile information</u>		<u>Window Unit</u>	<u>Cutting Formulas*</u>			
<u>Part Name</u>	<u>Part No.</u>	<u>Component Name</u>	<u>Pcs.</u>	<u>Rfn'ce</u>	<u>Deduct</u>	<u>Fraction</u>
<u>I. FRAME:</u>						
Main Frame-SS	3174	Head	1	Width	0.000	0
Main Frame-SS	3174	Sill	1	Width	0.000	0
Main Frame-SS	3174	Jamb	2	Height	0.000	0
Fixed Mtg Rail-SB	3173	Fixed Meeting Rail	1	Height	-3.688	-3 11/16
Sill Track Insert	3192	Sill Track Insert	1	Width	-2.813	-2 13/16
Screen Retainer	3191	Screen Retainer	2	Cut To	3.000	3
Glazing Bead	3190	Glazbead - Horiz.	2	Width/2	-2.375	-2 3/8
Glazing Bead	3190	Glazbead - Vertic.	2	Height	-3.688	-3 11/16
<u>II. SASH:</u>						
Main Frame-SS	3150	Sash Rails - Top & Btm	2	Width/2	-1.313	-1 5/16
Pull/Lift Sash	3155	Pull Stile	1	Height	-3.000	-3
Lock Sash	3160	Lock Stile	1	Height	-3.000	-3
Glazing Bead	3190	Glazbead - Horiz.	2	Width/2	-2.563	-2 9/16
Glazing Bead	3190	Glazbead - Vertic.	2	Height	-4.250	-4 1/4
# Stiffeners:						
Aluminum Reinforcement	NEW	Fixed Mtg. Rail Reinf	1	Height	-4.938	-4 15/16
Aluminum Reinforcement	10300046	Lock Stile Reinf	1	Height	-5.750	-5 3/4
Aluminum Reinforcement	10300047	Pull Stile Reinf	1	Height	-5.750	-5 3/4
<u>III. GLASS:</u>						
Insulated Glass		Horizontal	2	Width/2	-2.688	-2 11/16
Insulated Glass		Vertical (Sash)		Height	-4.500	-4 1/2
Insulated Glass		Vertical (Frame)		Height	-3.938	-3 15/16
<u>IV. SCREEN:</u>						
Screen Frame		Horizontal	2	Width/2	-2.313	-2 5/16
Screen Frame		Vertical	2	Height	-3.750	-3 3/4

TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.

PROJ. ATI-55328 TEST DATE 1/13/05

\*All cutting formulas are in inches.

# Stiffeners required as per the 'Size Limitation Chart'

Logics do not include weld burn-off. Actual burn-off must be added to the deduction of each welded component. Different tilt latches used on the top sash require adjustments to the heights of the stiles, glazing beads, & glass.

# 000.300 SS SASH - BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
27	TOP RAIL	1	10003150	10494-0	A
28	BOTTOM RAIL	1	10003150	10497-0	A
29	LOCK STILE	1	10003160	10495-0	A
30	PULL STILE	1	10003155	10496-0	A
31	HORIZONTAL GLAZING BEAD	2	10003190	STRAIGHT CUT OR 45	A
32	VERTICAL GLAZING BEAD	2	10003190	STRAIGHT CUT OR 46	A
33					
34	INSULATED GLASS UNIT (3/4")	1			R
35	GLAZING COMPOUND	AS REQ'D	SBC2150		T
36	SETTING BLOCKS (refer to IG Supplier Guidelines)	2	1/8" x 3/4"		W
37					
38	ROLLER	2	79529		D
39					
40					
41	LOCK	1 OR 2	PD 207 WHR-JW	INTERNATIONAL	PRODUCTS
42	LOCK SCREW	2 OR 4	SELF DRILLING #8 X 3/4 PFH (PAINTED)		B, Z
43					
44	LOCK STILE REINFORCEMENT	1	10300046	STRAIGHT CUT	A
45	PULL STILE REINFORCEMENT	1	10300047	STRAIGHT CUT	A
46					
47	WEATHERSTRIPPING	AS REQ'D	.187 BK X .220 HT CENTER FIN		F, I
48					
49					
50					
51					
52					
53					

<b>DAYTON TECHNOLOGIES</b>	
MONROE, OH	COPYRIGHT 2004
NAME	000.300 SINGLE SLIDER
DWN BY:	CRB
CHKD BY:	6/3/2004
DWG NO:	000300SS.Xls

Note:  
 \* Only required for DP50  
 \*\* TBD = To Be Determined

Rev	Date	Description	By
A	6/30/04	CHANGE ROLLER & LOCK	CRB
		TEST SPECIMEN COMPLIES WITH THESE DETAILS	

ANY DEVIATION IS NOTED.  
 PROJ. ATI-55328 TEST DATE 1/13/05

# 000.300 SS SASH - BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
27	TOP RAIL	1	10003150	10003150-F-02	A
28	BOTTOM RAIL	1	10003150	10003150-F-03	A
29	LOCK STILE	1	10003160	10003160-F-02	A
30	PULL STILE	1	10003155	10003155-F-02	A
31	HORIZONTAL GLAZING BEAD	2	10003190	STRAIGHT CUT	A
32	VERTICAL GLAZING BEAD	2	10003190	STRAIGHT CUT	A
33					
34	INSULATED GLASS UNIT (3/4")	1			R
35	GLAZING COMPOUND	AS REQ'D	SBC2150		T
36	SETTING BLOCKS (refer to IG Supplier Guidelines)	2	1/8" x 3/4"		W
37					
38	ROLLER	2	110-2426		AA
39					
40					
41	LOCK	1 OR 2	672210 (RH) and/or 672254 (LH)		II
42	LOCK SCREW	2 OR 4	SELF DRILLING #8 X 3/4 PFH (PAINTED)		B, Z
43					
44	LOCK STILE REINFORCEMENT	1	10300046	STRAIGHT CUT	A
45	PULL STILE REINFORCEMENT	1	10300047	STRAIGHT CUT	A
46					
47	WEATHERSTRIPPING	AS REQ'D	.187 BK X .220 HT CENTER FIN		F, I
48					
49					
50					
51					
52					
53					

<b>DAYTON TECHNOLOGIES</b>	
MONROE, OH	COPYRIGHT 2001
NAME: 000.300 SINGLE SLIDER	
DWN BY: MTC	11/29/2001
CHKD BY:	
DWG NO: 000300SS.xls	

Note:  
 \* Only required for DP50  
 \*\* TBD = To Be Determined

Rev	Date	Description	By
		TEST SPECIMEN COMPLIES WITH THESE DETAILS.	
		ANY DEVIATION IS NOTED.	
		PROJ. ATI-SS J&P TEST DATE 1/13/05	

# 310000 SS FRAME - BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
1	HEAD	1	10003174	10474-0	A
2	SILL	1	10003174	10475-0	A
3	JAMB	2	10003174	10476-0	A
4	FIXED MEETING RAIL	1	10003173	10477-0	A
5	SILL TRACK INSERT	1	10003192	STRAIGHT CUT	A
6	HORIZONTAL GLAZING BEAD	2	10003190	STRAIGHT CUT OR 46	A
7	VERTICAL GLAZING BEAD	2	10003190	STRAIGHT CUT OR 46	A
8					
9	INSULATED GLASS UNIT (3/4")	1			R
10	GLAZING COMPOUND	AS REQ'D	SBC2150		T
11	SETTING BLOCKS (refer to IG Supplier Guidelines)	2	1/8" x 3/4"		W
12					
13	WEEP COVER	2	97-03-00-00		D, RRR
14					
15					
16					
17					
18	MEETING RAIL TO BRACKET SCREW			SELF DRILLING #6 X 1/2 PFH WITH #4 HEAD	
19	MEETING RAIL BRACKET	2	1613		VV
20	BRACKET to JAMB SCREW	4	#8 X 3/4 PFH w/ #6 HEAD		B, Z
21					
22	MEETING RAIL REINFORCEMENT	1	ST 494	STRAIGHT CUT	HHH
23					
24					
25					
26					
27	WEATHERSTRIPPING	AS REQ'D		.187 BK X .290 HT CENTER FIN	F, I
28	SCREEN RETAINER	1	10003191	STRAIGHT CUT	A
29	SCREEN ASSEMBLY	1	SCREEN-19		N

**TEST SPECIMEN COMPLIES 1**

Describe THESE DETAILS. By

ANY DEVIATION IS NOTED.

PROJ. ATI 55328 TEST DATE 11/13/05

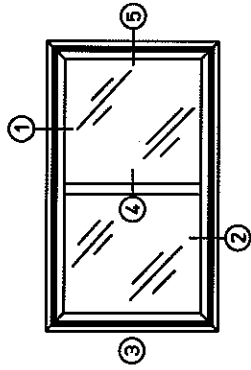
Note: \*Only required for DP50

<b>DAYTON TECHNOLOGIES</b>	
MONROE, OH	COPYRIGHT 2004
NAME: 310000 SINGLE SLIDER	
DWN BY: CRB	5/31/2004
CHKD BY:	
DWG NO: 310000SS.Xls	

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

REVISION HISTORY

REV	STATUS	REV.	DESCRIPTION	DATE	APPROVED
REV	SH	<input checked="" type="checkbox"/>		YEAR/MON	
-	-	-			
-	-	-			



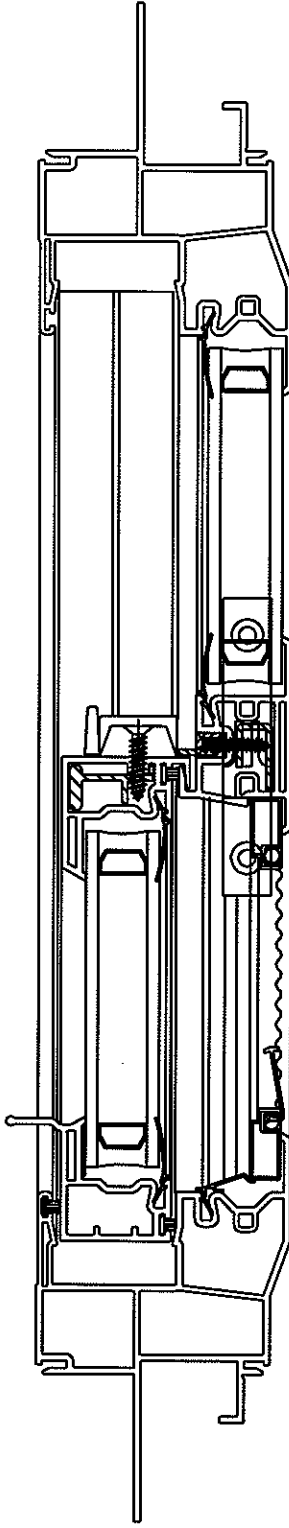
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4

3

1

2



TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.  
 PROJ. ATI- 5528 TEST DATE 1/13/05

LAYOUT DRAWING

DESIGN BY: HTC DATE: 04/02/01 DRAWN BY: HTC DATE: 04/02/01 AUTH: [blank] DATE: [blank] FILENAME: /pd/reassembly/310300SS.dwg		DAYTON TECHNOLOGIES deceuninck NORTH AMERICA COPYRIGHT 2002 311 NORTH CANTON ROAD MARIETTA, OHIO 45750
UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ± ° 2 PL ± .01 3 PL ± .005 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994 THIRD ANGLE PROJECTION		NAME: [blank] DWG. NO: 310300SS SCALE: 1:1 (LUS/FT) N/A SHEET: 1 OF 1

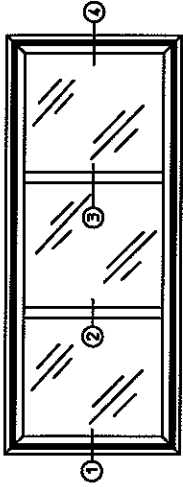
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REVISION HISTORY

REV	STATUS	REV.	DESCRIPTION	DATE	APPROVED
REV	SH	<input checked="" type="checkbox"/>		10/10/04	
-	-	-			
-	-	-			

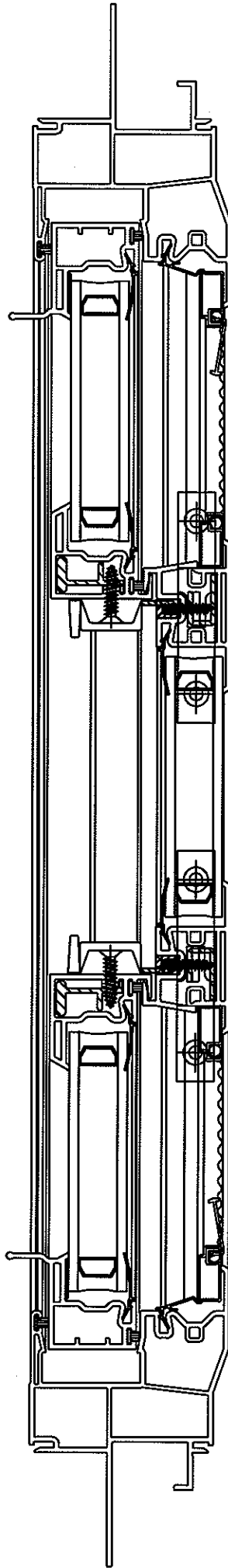


1

2

3

4



TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED. PROJ. ATI-SS328 TEST DATE 1/13/05

LAYOUT DRAWING

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ± 1° 2 PL ± .01 3 PL ± .005 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994 THIRD ANGLE PROJECTION	DESIGN BY: CRB	DATE: 04/06/17		COPYRIGHT 2004 31 NORTH CARVER ROAD MONSEE, OHIO 45060
	DRAWN BY: CRB	DATE: 04/06/17		
	AUTH: [blank]	DATE: [blank]	NAME: 310300 SINGLE SLIDER OXO (1/3, 1/3, 1/3)	
	FILENAME: [blank]	SCALE: 1:1 (US/FT)	DWG. NO: 310300SS_XOX_333	REV: [blank]
				SHEET: 1 OF 1

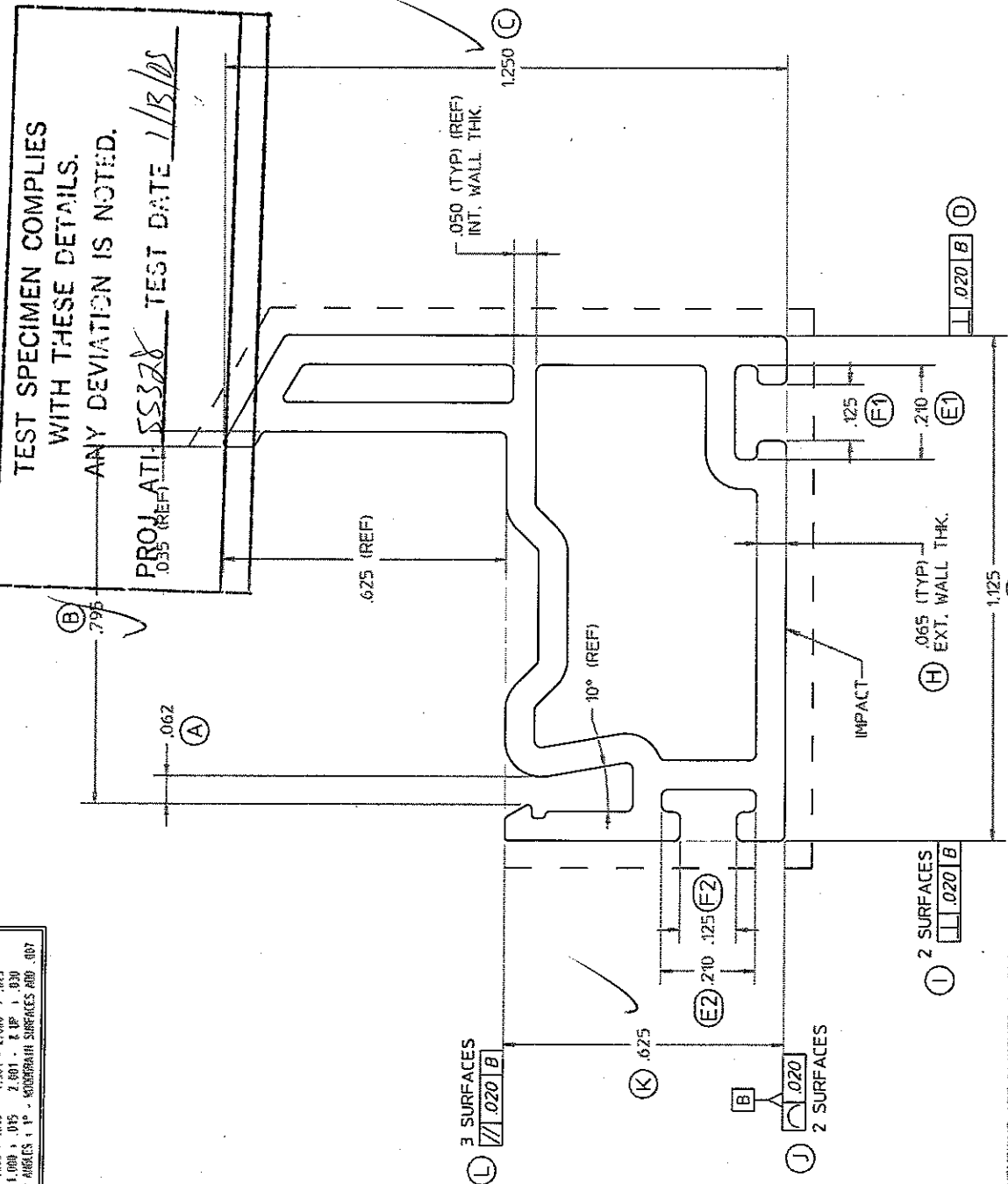
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.001 - .100	± .005
.101 - .500	± .010
.501 - 1.000	± .015
1.001 - 2.000	± .020
2.001 - 8.000	± .030
8.001 - 30.000	± .040

UNSPECIFIED ANGLES ± 1° - WOODGRAIN SURFACES 600, 407

— = EXPOSED SURFACE  
 — = WOODGRAIN SURFACE



NOTES:  
 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REV.	DATE	DESCRIPTION	BY
A	06/12/02	A MAX WAS .067, NOW .070	MTC
		B MIN WAS .785, NOW .770	

10003150 & 10003190

IMPACT AREA: NOTED

CONTROL DIMENSIONS									
DIR	RETH	MIN	ENG	MAX	DIR	RETH	MIN	ENG	MAX
A	V	.057	.062	.070	X				
B	V	.770	.795	.805	Y				
C	V	1.230	1.250	1.270	Z				
D	V	.020 B			AA				
E	G	1-1 & 1-2A			BB				
F	G	1-1 & 1-2A			CC				
G	V	1.105	1.125	1.145	DD				
H	V	.055	.065	.075	EE				
I	V	.020 B			FF				
J	V	.020 B			GG				
K	V	.615	.625	.635	HH				
L	V	.020 B			II				
M					JJ				
N					KK				
O					LL				
P					MM				
Q					NN				
R					OO				
S					PP				
T					QQ				
U					RR				
V					SS				
W					TT				

Part Wt. (Lbs/Ft)	Rigid:	Cap:	Flex:	Alumi:	Total
	.210				.210

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 NORTH AMERICA  
 BOURNE, OHIO 44809

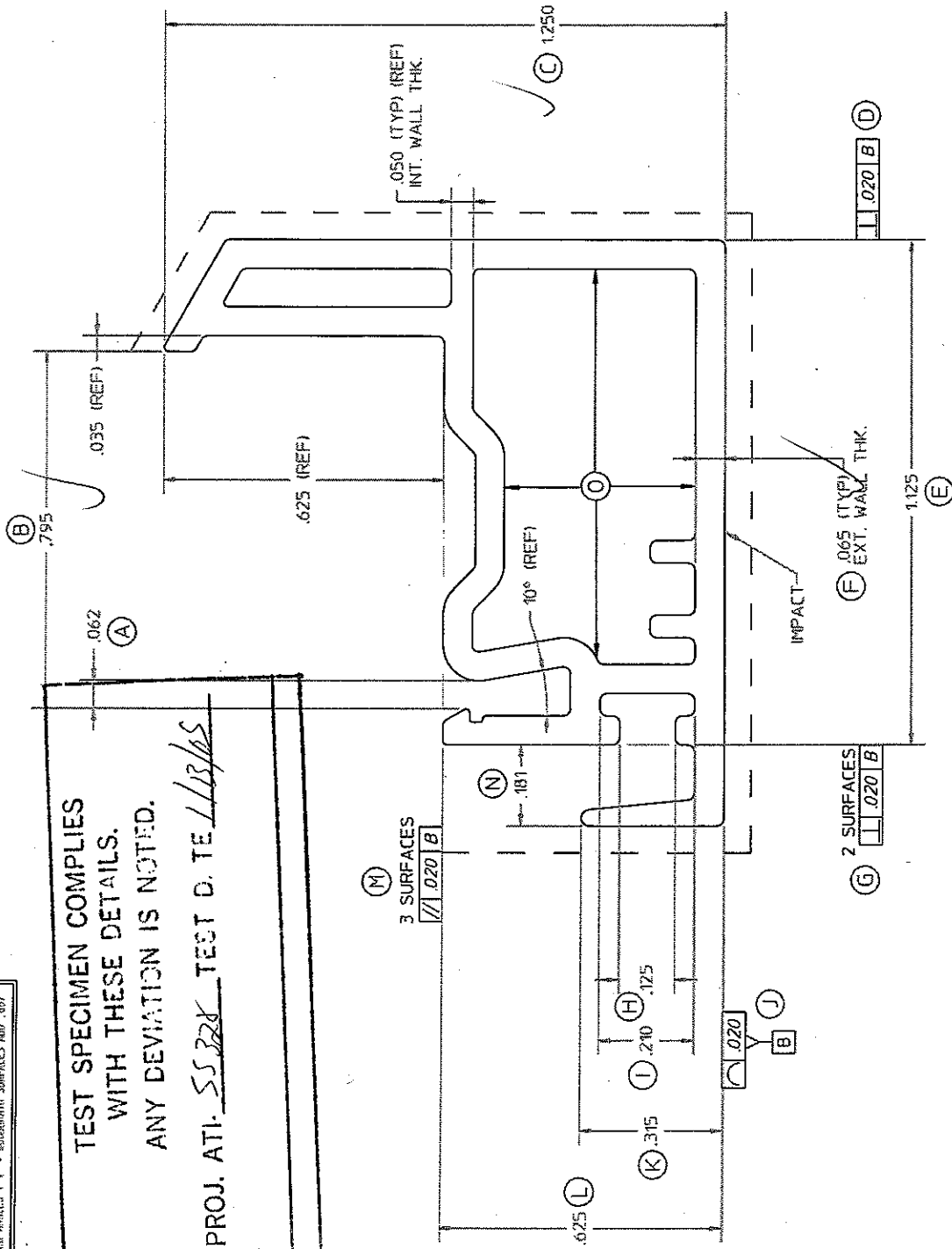
DATE: STILE  
 DRAWN BY: MTC DATE: 11/20/01  
 CHECKED BY: DATE:  
 SCALE: 4 : 1 "B"  
 PART NO: 10003150  
 PART NO: 10003150-A

UNLESS OTHERWISE NOTED THE FOLLOWING TOLERANCES APPLY  
 .001 - .109 ± .005  
 .109 - .508 ± .008  
 .508 - 1.016 ± .010  
 1.016 - 2.032 ± .015  
 2.032 - 4.064 ± .020  
 4.064 - 8.128 ± .030  
 UNSPECIFIED SURFACES ± .010 - ROD/GRAIN SURFACES ADD .007

--- = EXPOSED SURFACE --- = WOODGRAIN SURFACE

TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.

PROJ. ATI-55228 TEST D. TE 1/13/05



REV.	DATE	DESCRIPTION	BY
A	07/01/02	Changed Dim A Max to .0172 from .0167 Changed Dim B Max to .0185 from .0165	TAW

IMPACT AREA: NOTED

CONTROL DIMENSIONS									
DIM	MTH	MIN	ENG	MAX	DIM	MTH	MIN	ENG	MAX
A	V	.057	.062	.072	X				
B	V	.785	.795	.815	Y				
C	V	1.230	1.250	1.270	Z				
D	V	1.105	1.125	1.145	AA				
E	V	.055	.065	.075	BB				
F	V	1.105	1.125	1.145	CC				
G	V	1.105	1.125	1.145	DD				
H	G	1-1	1-2A		EE				
I	G	1-1	1-2A		FF				
J	V	1.105	1.125	1.145	GG				
K	V	.305	.315	.325	HH				
L	V	.615	.625	.635	II				
M	V	1.105	1.125	1.145	JJ				
N	V	.171	.181	.191	KK				
O	G	10.300	10.400	10.500	LL				
P					MM				
Q					NN				
R					OO				
S					PP				
T					QQ				
U					RR				
V					SS				
W					TT				

Part Wt. (LBS/Ft) 223  
 Rigid: Cap: Flex: Alum: Total  
 223  
 223

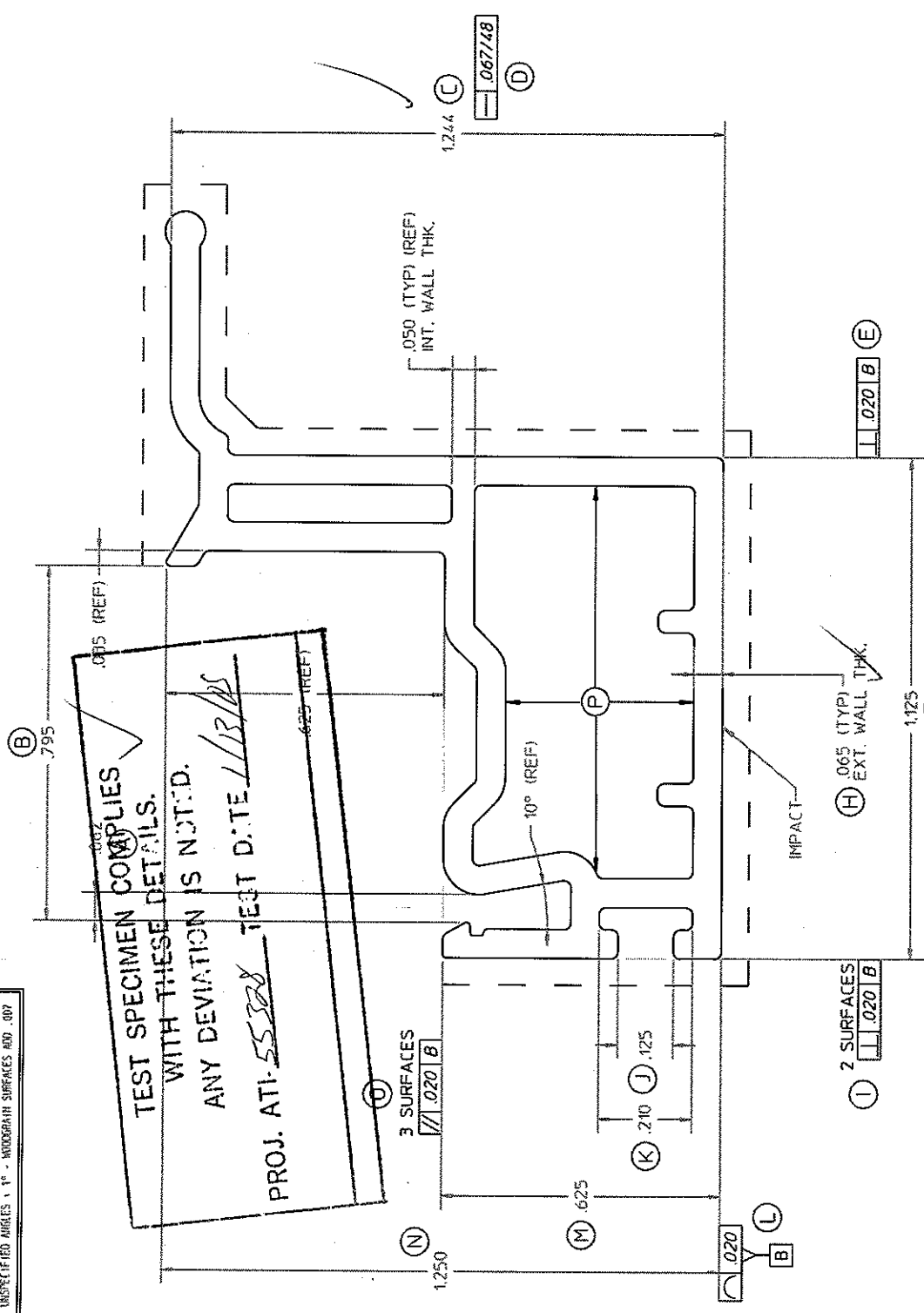
DAYTON TECHNOLOGIES  
 COPYRIGHT 2011  
 51 NORTH BAYVIEW ROAD  
 NORTH AMERICA  
 BOURNE, MA 01969

LOCK RAIL  
 DATE: 11/20/01  
 MTC  
 DATE:  
 SCALE: 4 : 1 "B"  
 COLOR: EMP 1005 CLR ELEV 1017H  
 PART NO: 10003160  
 DATE: 10003160--A

NOTES:  
 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE NOTED THE FOLLOWING TOLERANCES APPLY  
 .001 - .100 ± .005 1.001 - 1.500 ± .020  
 .011 - .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



REV.	DATE	DESCRIPTION	BY
A	01/26/02	A - TOL WAS +/- .005, NOW +/- .010	MTC
		M - TOL WAS +/- .010, NOW +/- .015	

10003190 & 10300047

IMPACT AREA: NOTED

### CONTROL DIMENSIONS

DIM	NETR	MIN	ENG	MAX	DIM	NETR	MIN	ENG	MAX
A	V	.052	.062	.072	X				
B	V	.785	.795	.805	Y				
C	V	1.224	1.244	1.264	Z				
D	V	.06748			AA				
E	V	.020			BB				
F	V	.06748			CC				
G	V	1.05	1.125	1.145	DD				
H	V	.055	.065	.075	EE				
I	V	.020			FF				
J	G	1-1 & 1-2A			GG				
K	G	1-1 & 1-2A			HH				
L	V	.020			II				
M	V	.610	.625	.640	JJ				
N	V	1.230	1.250	1.270	KK				
O	V	.020			LL				
P	G	R3000047			MM				
Q	R				NN				
R	S				OO				
S	T				PP				
T	U				QQ				
U	V				RR				
V	W				SS				
W					TT				

Part Wt. (Lbs/Ft) **233**

Rigid: Cap: Flex: Alum: Total

**Dayton** **decumnick** **decumnick**  
 TECHNOLOGIES NORTH AMERICA WAREHOUSE BLDG

DATE: 11/20/01

SCALE: 4 : 1 "B"

PART NO: 10003155

DATE: 11/20/01

SCALE: 4 : 1 "B"

PART NO: 10003155

DATE: 11/20/01

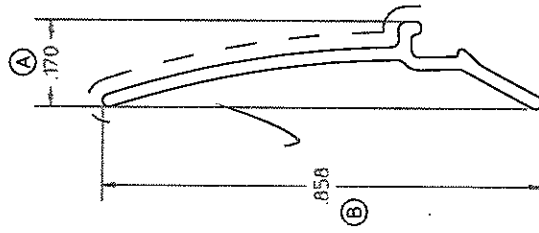
SCALE: 4 : 1 "B"

PART NO: 10003155

NOTES:  
 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

----- = EXPOSED SURFACE ----- = WOODGRAIN SURFACE

UNLESS OTHERWISE NOTED THE FOLLOWING TOLERANCES APPLY  
 .001 - .100 ± .005    1.001 - 1.500 ± .010  
 .101 - .500 ± .010    1.501 - 2.000 ± .015  
 .501 - 1.000 ± .015    2.001 - 8.000 ± .020  
 UNSPECIFIED ANGLES ± 1° - WOODGRAIN SURFACES ADD .007



TEST SPECIMEN COMPLIES WITH THESE DETAILS.  
 ANY DEVIATION IS NOTED.  
 .025 TEST DATE 1/13/01  
 PROJ. ATI-55378

ACTUAL SIZE:

REV.	DATE	DESCRIPTION	BY
A	01/22/02	REMOVED ORIGINAL B, C & D MODIFIED A, RENAMED F & E	MTC
B	08/26/02	A MIN WAS .150 B MAX WAS .878 C MAX WAS .030	MTC

FITS NOTE: N/A  
 REV CLASS: C  
 IMPACT AREA: NOTED

CONTROL DIMENSIONS											
DIM	METH	MIN	ENG	MAX	DIM	METH	MIN	ENG	MAX	DIM	METH
A	OC	.145	.170	.190	X						
B	OC	.838	.858	.890	Y						
C	OC	.020	.025	.036	Z						
D					AA						
E					BB						
F					CC						
G					DD						
H					EE						
I					FF						
J					GG						
K					HH						
L					II						
M					JJ						
N					KK						
O					LL						
P					MM						
Q					NN						
R					OO						
S					PP						
T					QQ						
U					RR						
V					SS						
W					TT						

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 MONROE, OHIO Copyright 2001

NAME: GLAZING BEAD  
 DRAWN BY: TJH DATE: 11/20/01  
 CHECKED BY: DATE:  
 SCALE: 5 : 1 "B" COLOR: DIM DIMS DIM DIMS DIMS  
 PART NO: 10003190 PART NO: 10003190-B

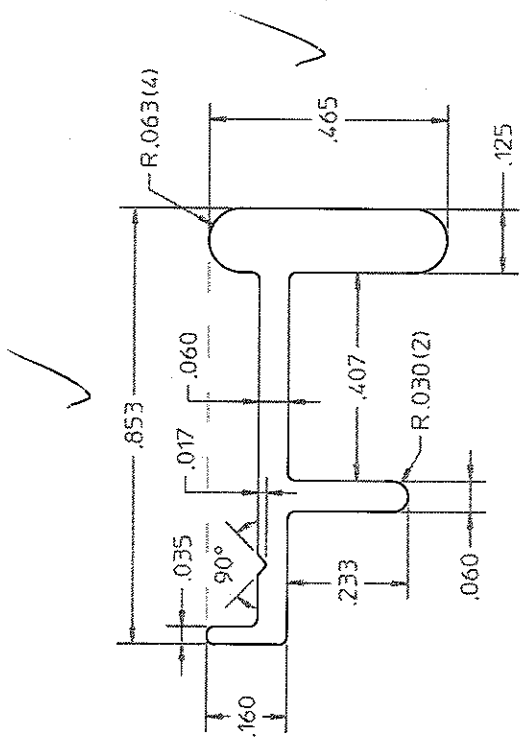
**NOTES:**

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2. DAYTON TECHNOLOGIES reserves the right to change specifications.
3. Unspecified radii = 0.015.
4. Material to be aluminum alloy 6063-T5.

**REVISION HISTORY**

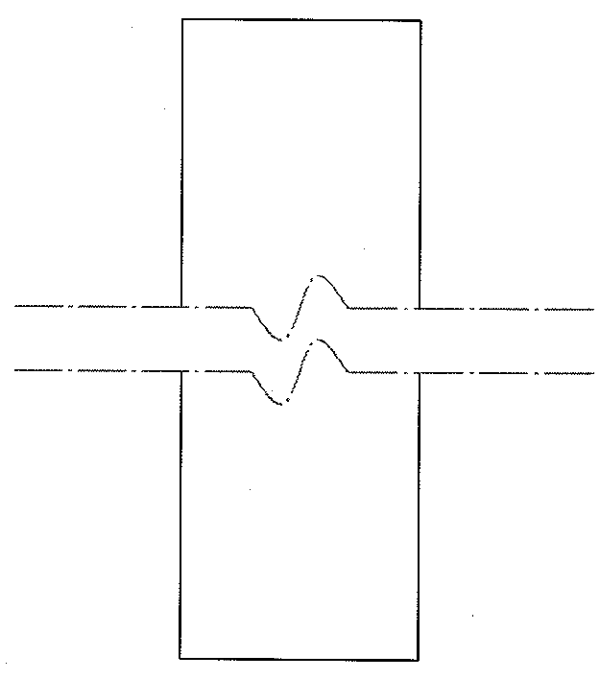
REV.	DESCRIPTION	DATE	APPROVED
1	*****	YR/MTH/DAY	

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



**TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.**

PROJ. ATI- SS 328 TEST DATE 1/13/16



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

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 deceuninck  
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 HERSCHE, OHIO 43031

NAME: \_\_\_\_\_  
 SASH REINFORCEMENT  
 DWG. NO: 10300046  
 SCALE: 4 : 1 (Lbs/Ft) 0.136  
 SHEET: 1 OF 1



THIRD ANGLE PROJECTION

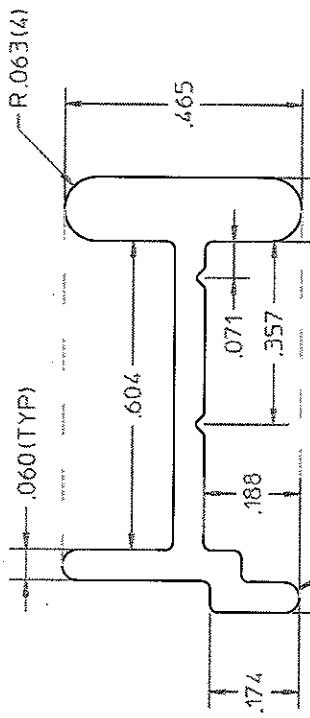
**NOTES:**

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. Unspecified Radii = 0.015.
4. Material to be aluminum alloy 6063-T5.

**REVISION HISTORY**

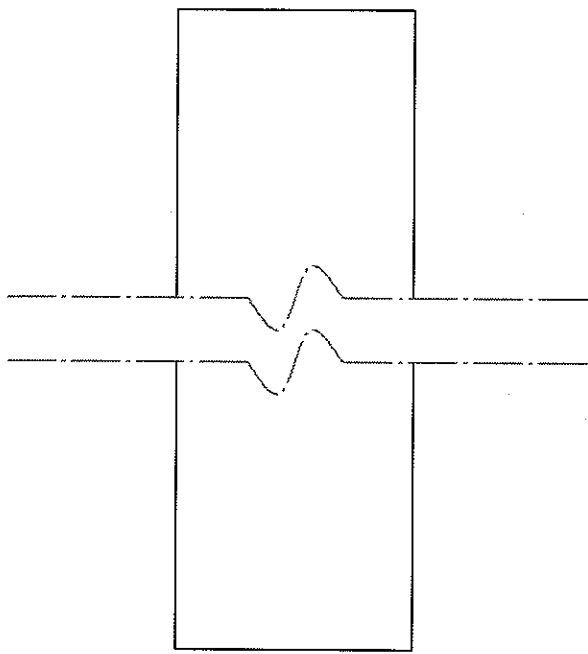
REV	DESCRIPTION	DATE	APPROVED
1	-----	YR/MTH/DAY	

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



**TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.**

PROJ. ATI-SS328 TEST DATE 11/1/18



UNLESS OTHERWISE SPECIFIED DIMS ARE IN INCHES  
 TOL ON ANGLE ± .XX°  
 2 PL ± .XX 3 PL ± .XXX  
 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION



301 NORTH CARRIAGE ROAD  
 DAYTON, OHIO 45424

NAME:

BOTTOM RAIL REINFORCEMENT

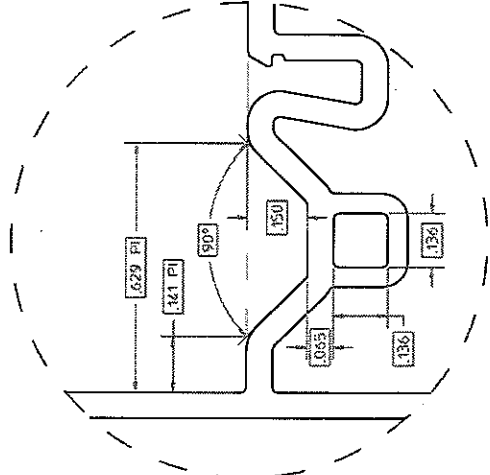
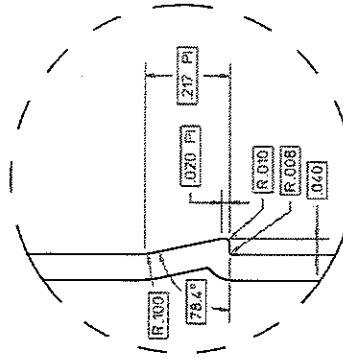
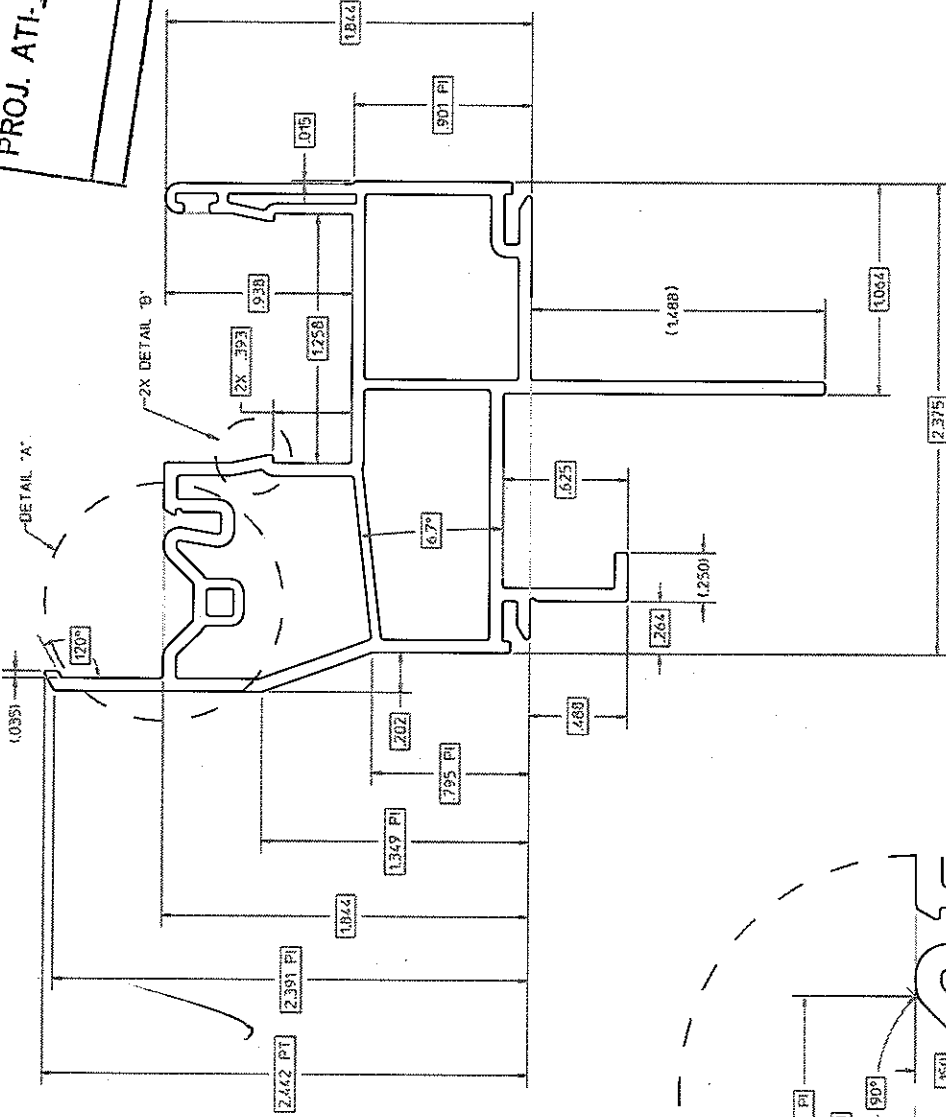
DWG. NO: 10300047



SCALE: 4 : 1 (LBS/FT)

SHEET: 1 OF 1

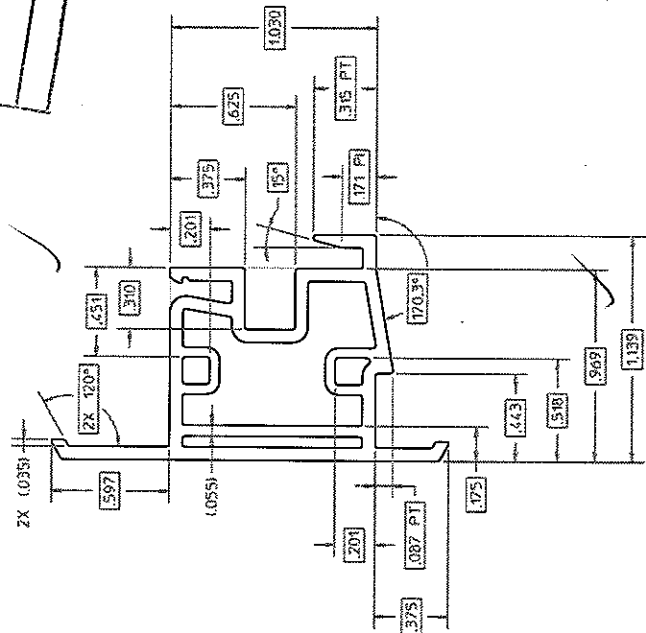
TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.  
 PROJ. ATI-SS-328 TEST DATE 1/13/05



		CORPORATION 3000 WILSON BLVD WILSON, OHIO 45398	
NAME:		MAIN FRAME SS	
DESIGN BY:	MTC	DATE:	03/17/03
DRAWN BY:	CRB	DATE:	04/02/01
AUTH:	HPO/COJ/paris/3174	FILENAME:	10003174_S13.m
UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE ± 1° 2 PL ± .01 3 PL ± .005 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994 THIRD ANGLE PROJECTION	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. DO NOT COPY OR DISCLOSE THIS INFORMATION WITHOUT THE EXPRESS WRITTEN CONSENT OF DAYTON TECHNOLOGIES. DAYTON TECHNOLOGIES RESERVES THE RIGHT TO CHANGE THIS DRAWING AND ANY ASSOCIATED DOCUMENTS.	DWG. NO:	10003174_S13
SCALE: 2 : 1	LBS/FT	N/A	SHEET: 3



TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.  
 PROJ. ATI-55328 TEST DATE 1/13/05



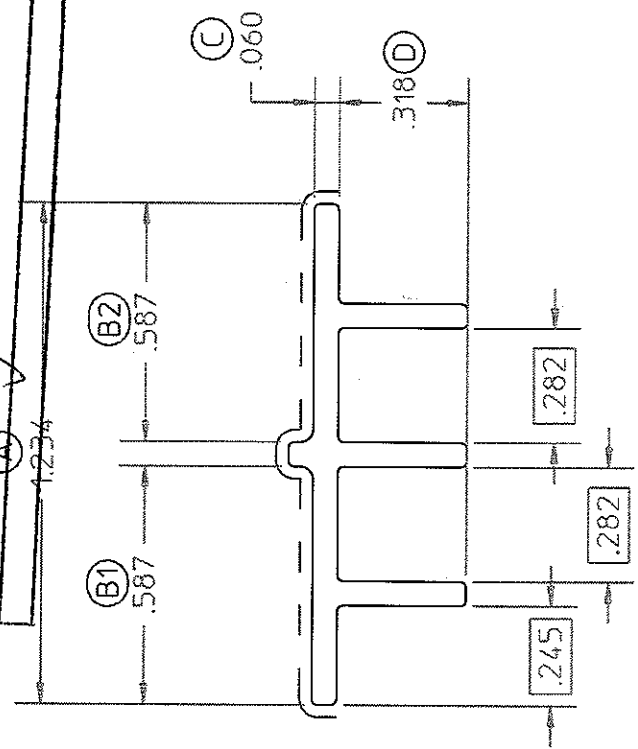
UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES. TOL ON ANGLE ± 1°. 7 PL. ON 3 PL. ± .005 INTERPRET DIM AND TOL PER ASME Y12.54 - 1994. THIRD ANGLE PROJECTION.		DESIGN BY: RTC DATE: 03/12/03 DRAWN BY: JH DATE: 04/02/00 DATE:	DAYTON TECHNOLOGIES decennick NORTH AMERICA DAYTON, OH 45424	OFFICE 938 SUBMIT DRAWING NUMBER 090 090
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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

TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.  
 PROJ. ATI- ~~5532X~~ TEST DATE 1/13/05



# PROFILE 10003192

REV.	DATE	DESCRIPTION	BY
A	01/02/02	ADDED FITS WITH PART	MTC
		CHANGED IMPACT TO N/A	

FITS WITH: 10003120  
 IMPACT AREA: N/A

CONTROL DIMENSIONS									
DIM	METH	MIN	ENG	MAX	DIM	METH	MIN	ENG	MAX
A	V	1.214	1.234	1.254	F				
B(2)	V	.567	.587	.607	O				
C	V	.050	.060	.070	R				
D	V	.288	.318	.348	S				
E					T				
F					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	CREAM	WHITE
PART WT. (LBS/FT)		.086					
RIGID							
CAP							
FLEX							
ALUM							
TOTAL							.086

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 MONROE, OHIO 45050

PART NAME:	SILL TRACK INSERT		
DRAWN BY:	TJH	DATE:	11/21/01
CHECKED BY:		DATE:	
DWG NO:	10003192-A	FILENAME:	pd/cad/parts/
DIE/CAL NO:		SCALE:	2:1

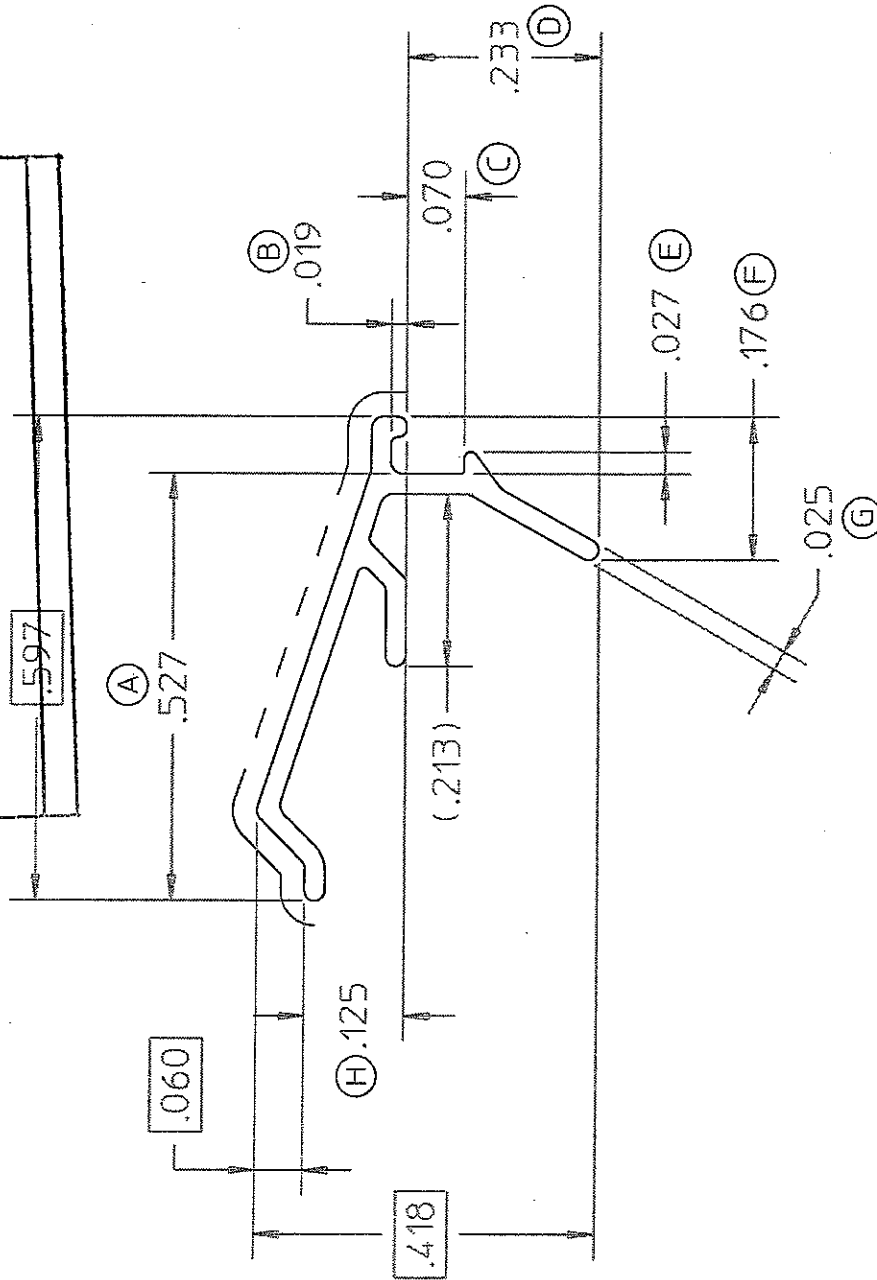
Notes:  
 1. All dimensions are in inches unless otherwise specified.

UNLESS OTHERWISE NOTED THE FOLLOWING TOLERANCES APPLY  
 .001 - .100 .005  
 .101 - .500 .010  
 .501 - 1.000 .015  
 2.001 - & UP .030  
 UNSPECIFIED ANGLES 1 - WOODGRAIN SURFACES ADD .007

--- EXPOSED SURFACE  
 --- WOODGRAIN SURFACE

TEST SPECIMEN COMPLIES WITH THESE DETAILS. ANY DEVIATION IS NOTED.

PROJ. ATI: 55328 TEST DATE 1/13/05



# PROFILE 10003191

REV.	DATE	DESCRIPTION	BY
A	03/08/19	INCREASE NUB.FE. LENGTHEN BASE (.218)	JOE L
B	YY/MM/DD		

FITS WITH:

IMPACT AREA: Noted

## CONTROL DIMENSIONS

DIM	METH	MIN	ENG	MAX	DIM	METH	MIN	ENG	MAX
A	V	.517	.527	.537	P				
B	V	.014	.019	.024	Q				
C	V	.065	.070	.075	R				
D	V	.223	.233	.243	S				
E	V	.020	.027	.034	T				
F	V	.166	.176	.186	U				
G	V	.020	.025	.030	V				
H	V	.115	.125	.145	W				
I					X				
J					Y				
K					Z				
L					AA				
M					BB				
N					CC				
O					DD				

COLOR WH (DS) EB EW OTH Cream White

PART WT. (LBS/FT)	RIGID	CAP	FLEX	ALUM	TOTAL
.017					.017

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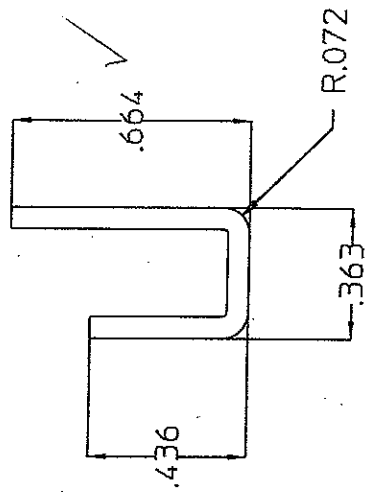
PART NAME:	SCREEN RETAINER
DRAWN BY:	TJH
CHECKED BY:	
DWG NO:	10003191-A
DATE:	11/21/01
FILENAME:	pd/cad/parts/3191
SCALE:	4 : 1

Notes:  
 1. All dimensions are in inches unless otherwise specified.

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

TEST SPECIMEN COMPLIES  
 WITH THREE DET. U.S.  
 ANY DEV. PLAN IS NOTED.  
 PROJ. ATI- SS 328 DATE 1/13/65



HYGRADE METAL		MOULDING	
TOLERANCE UNLESS OTHERWISE SPECIFIED	DECIMAL +0.00 -0.20	ANGULAR	MATERIAL .050 GALV.
DRAWN BY	RCM	TITLE	DWG NO. ST-494
SCALE 2:1	DATE 6-10-65	APPROVED BY	MEM

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