

TEST REPORT

Report No.: B7807.01-501-47

Rendered to:

Deceuninck North America, LLC
Monroe, Ohio

PRODUCT TYPE: PVC Single Hung Window
SERIES/MODEL: 143.095 SH-016
(Modified)

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

Summary of Results		
Title	Test Specimen #1	Test Specimen #2
AAMA/WDMA/CSA 101/I.S.2/A440-08 Rating	H-LC30 1422 x 2311 (56 x 91)	H-LC50 1016 x 1600* (40 x 63*)
Design Pressure	±1440 Pa (±30.08 psf)	±2880 Pa (±60.15 psf)
Air Infiltration	0.4 L/s/m ² (0.08 cfm/ft ²)	N/A
Water Penetration Resistance Test Pressure	290 Pa (6.06 psf)	360 Pa (7.52 psf)

Test Completion Date: 02/16/2012

Reference must be made to Report No. B7807.01-501-47, dated 03/26/12 for complete test specimen description and detailed test results.

1.0 Report Issued To: Deceuninck North America, LLC
351 North Garver Road
Monroe, Ohio 45050

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

3.0 Project Summary:

3.1 Product Type: PVC Single Hung Window

3.2 Series/Model: 143.095 SH-016

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimens tested successfully met the performance requirements for the following ratings: Test Specimen #1: AAMA/WDMA/CSA 101/I.S.2/A440-08, **H-LC30 1422 x 2311 (56 x 91)** rating. Test Specimen #2: AAMA/WDMA/CSA 101/I.S.2/A440-08, **H-LC50 1016 x 1600* (40 x 63*)** rating.

***General Note:** An asterisk (*) next to the size designation indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.*

3.4 Test Dates: 02/14/2012 - 02/16/2012

3.5 Test Record Retention End Date: All test records for this report will be retained until March 26, 2016.

3.6 Test Location: Deceuninck North America, LLC test facility in Monroe, Ohio. Calibration of test equipment was performed by Architectural Testing in accordance with AAMA 205-01 "In-Plant Testing Guidelines for Manufacturers and Independent Laboratories".

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

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

3.0 Project Summary: (Continued)

3.9 List of Official Observers:

<u>Name</u>	<u>Company</u>
Dean Erbaugh	Deceuninck North America, LLC
James Grippo	Architectural Testing, Inc.

4.0 Test Specification:

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

5.0 Test Specimen Description:

5.1 Product Sizes:

Test Specimen #1:

Overall Area: 3.3 m ² (35.4 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	1422	56	2311	91
Bottom sash size	1341	52-13/16	1132	44-9/16
Screen size	1308	51-1/2	1106	43-9/16

Test Specimen #2:

Overall Area: 1.6 m ² (17.5 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	1016	40	1600	63
Bottom sash size	935	36-13/16	766	30-9/16
Screen size	902	35-1/2	751	29-9/16

5.0 Test Specimen Description: (Continued)

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member	Material	Description
Head, sill and jambs	PVC	Extruded
Fixed meeting rail	PVC	Extruded

	Joinery Type	Detail
All corners	Mitered	Thermally welded, Each sill/jamb intersection was also fastened with one #8 x 1" long screw at the exterior side.
Fixed meeting rail	Coped and butted	Secured to the jambs using two composite shear blocks, one at each end. Each shear block was secured to the frame with two #8 x 3/4" long screws, and to the fixed rail reinforcement with one #8 x 2-1/2" long screw.. Each intersection was sealed with a silicone sealant.

5.3 Sash Construction:

Sash Member	Material	Description
All rails and stiles	PVC	Extruded

	Joinery Type	Detail
All corners	Mitered	Thermally welded

5.4 Weatherstripping:

Description	Quantity	Location
0.187" backed with 0.290" high center fin pile	2 Rows	Stiles
0.187" backed with 0.290" high center fin pile	1 Row	Lock rail
0.325" diameter foam-filled vinyl bulb with flexible fin and offset base	1 Row	Bottom rail

5.0 Test Specimen Description: (Continued)

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

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
3/4" IG	"U" shaped steel/ butyl spacer, single sealed	1/8" annealed	1/8" annealed	Set against a bead of a silicone sealant and secured with rigid vinyl glazing beads. The sash was glazed from the exterior and the fixed lite was glazed from the interior.

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
Specimen #1 sash	1	1278 x 1068	50-5/16 x 42-1/16	1/2"
Specimen #1 fixed lite	1	1295 x 1076	51 x 42-3/8	1/2"
Specimen #2;sash	1	870 x 713	34-1/4 x 28-1/16	1/2"
Specimen #2;fixed lite	1	892 x 721	35-1/8 x 28-3/8	1/2"

5.6 Drainage: A sloped sill was utilized

Drainage Method	Size	Quantity	Location
Weep notch	2' wide by leg height	4	Sill screen retainer legs, two at each end.
Weepslot	3/8" wide by 3/16" deep	4	Bottom rail glazing pocket through bottom surface, two at each end.
Weephole	3/16" diameter	4	Fixed meeting rail glazing pocket through bottom surface, two at each end.

5.0 Test Specimen Description: (Continued)

5.7 Hardware:

Description	Quantity	Location
Metal cam lock with keeper (Vision #611/9331)	2	Lock rail, with mating keeper on the fixed meeting rail, one 6-1/2" from each end.
Block and tackle balance system with tilt locking shoe	2	One per jamb
Metal pivot bar	2	Bottom rail, one at each end
Plastic tilt latch	2	Lock rail, one at each end
Metal jamb support clip	2	One per jamb at the tilt latch of bottom sash. Each clip was secured with one #8 x 3/4" long screw.

5.8 Reinforcement:

Drawing Number	Location	Material
10300084	Fixed meeting rail	Extruded aluminum
10300082	All sash members	Extruded aluminum

5.9 Screen Construction:

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

6.0 Installation:

Each specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 3/6" shim space. The nail fin perimeter of the window was sealed with sealant.

Location	Anchor Description	Anchor Location
Integral nail fin	#8 x 5/8" pan head fastener	Nominally spaced 12" on center, starting at each corner.

7.0 Test Results: The temperature during testing was 19.4°C (67°F). The results are tabulated as follows:

Test Specimen #1:

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 178 N (40 lbf) Maintain motion: 155 N (35 lbf) Locks: 9 N (2 lbf)	Report Only 180 N (40 lbf) max. 100 N (22.5 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.4 L/s/m ² (0.08 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	1
Water Penetration, per ASTM E 547	N/A	N/A	3
Uniform Load Deflection, per ASTM E 330	N/A	N/A	3
Uniform Load Structural, per ASTM E 330	N/A	N/A	3
Forced Entry Resistance, per ASTM F 588 , Type: A - Grade: 10	Pass	No entry	
Thermoplastic Corner Weld	Pass	Meets as stated	
Deglazing, per ASTM E 987 Operating direction, 320 N (72 lbf) Remaining direction, 230 N (52 lbf)	Pass Pass	Meets as stated Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #1: (Continued)

Title of Test	Results	Allowed	Note
Optional Performance			
Water Penetration, per ASTM E 547 at 290 Pa (6.06 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 taken at the fixed meeting rail +1440Pa (+30.08 psf) -1440 Pa (-30.08 psf)	17.8 mm (0.70") 17.8 mm (0.70")	Report Only	4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the fixed meeting rail +2160 Pa (+45.11 psf) -2160 Pa (-45.11 psf)	1.3 mm (0.05") 0.8 mm (0.03")	5.3 mm (0.21") max. 5.3mm (0.21") max.	5, 6

Test Specimen #2:

Title of Test	Results	Allowed	Note
Optional Performance			
Water Penetration, per ASTM E 547 at 360 Pa (7.52 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 taken at the fixed meeting rail +2880 Pa (+60.15 psf) -2880 Pa (-60.15 psf)	5.8 mm (0.23") 5.8 mm (0.23")	Report Only	4, 6, 7
Uniform Load Structural, per ASTM E 330 taken at the fixed meeting rail +4320 Pa (+90.23 psf) -4320 Pa (-90.23 psf)	0.8 mm (0.03") 0.8 mm (0.03")	3.5 mm (0.14") max. 3.5 mm (0.14") max.	5, 6

7.0 Test Results: (Continued)

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

Note 2: With and without insect screen.

Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 4: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

Note 5: Loads were held for 10 seconds.

Note 6: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 7: Loads were held for 52 seconds

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

James P. Grippo
Technician

Lynn George
Director- Regional Operations

JPG:sld

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Alteration Addendum (1)

Appendix-B: Drawings (12)



Test Report No.: B7807.01-501-47
Report Date: 03/26/12

Appendix A
Alteration Addendum

Note: No alterations were required.



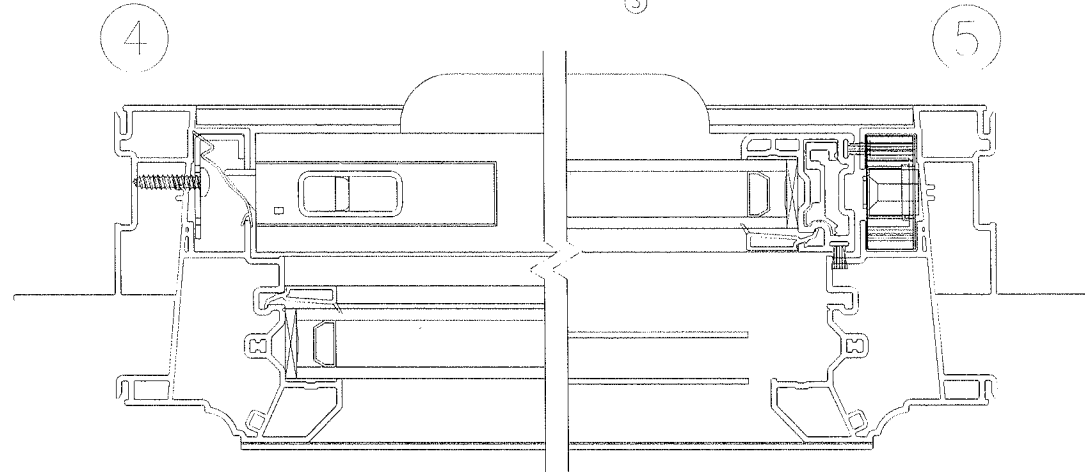
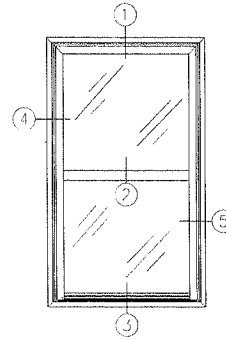
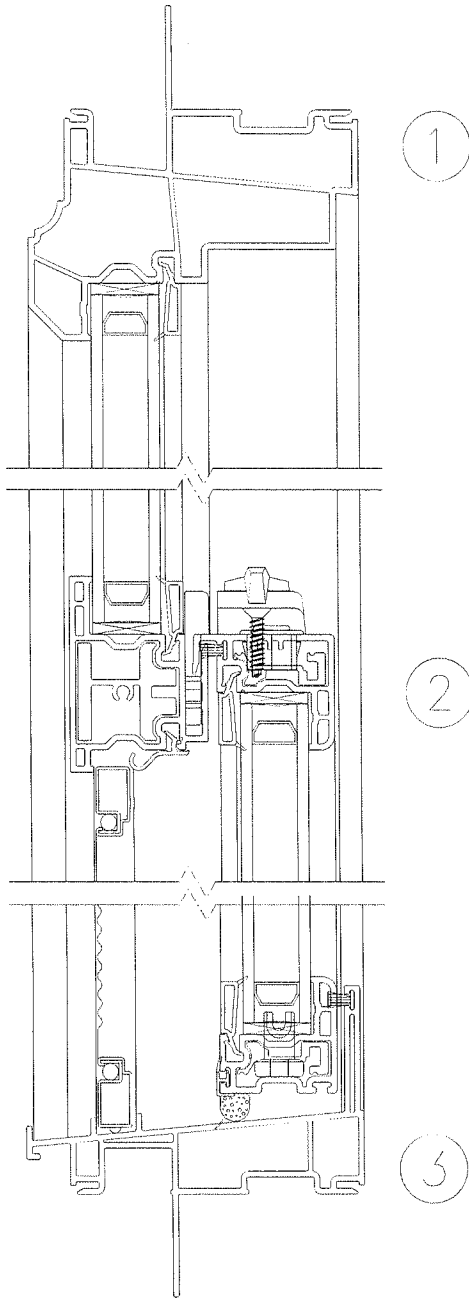
Test Report No.: B7807.01-501-47
Report Date: 03/26/12

Appendix B

Drawings

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

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
-	DESCRIPTION	DATE	APPROVED



Test sample complies with these details.
Deviations are noted.

Report# 27807-01
Date 3/10/12 Tech JG

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	<small>THIRD ANGLE PROJECTION</small> 	<small>DATE: 12/03/02 DATE: 12/03/02 AUTH: DATE: AUTH: DATE:</small>	<small>REV: NEW</small>

3777817

138543

143095 SH - 016

<div style="text-align: center;">(LE-08)</div> 143.095 C rated SH		DECEUNINCK MODEL NO.		Test sample complies with these details. Deviations are noted.				deceuninck	
				Report#	Date	Tech			
				Fastener					
		Part No.	Vendor	Material	Type	Qty	Size	Length	Head
				ex. Vinyl, Alum, Composite	ex. Rivot / Screw		ex. #4, #6, #8, etc.		ex. Pan, Flat, Oval, etc.
Frame									
	Head	10008687	DNA	Vinyl					
	Frame Adapter - Head (if applicable)								
	Jamb	10008686	DNA	Vinyl					
	Sill	10008672	DNA	Vinyl					
	Meeting Rail	10008511	DNA	Vinyl					
	Meeting Rail Reinf	10300084	DNA	Alum					
	Meeting Rail Anchor	121	Lawrence	Composite					
	Balance Cover	10005104	DNA	Vinyl					
Sash									
	Lock Rail	10008845	DNA	Vinyl					
	Stiles	10008842	DNA	Vinyl					
	Sash Reinf	10300082	DNA	Alum					
	Glazing Bead	10005470	DNA	Vinyl					
	Interlock Glazing Bead (if applicable)								
	Applied Interlocks (if applicable)								
Hardware									
	Glass Thickness	DS							
	Lock - Single or Multi Keeper (if applicable)	Multi							
	Lock	8281	Vision						
	Tilt Latch	171832101	Truth						
	Jamb Clips	78655	Ashland						
	(if applicable)	CB970S	FOUR-Jaks	Gal. Steel	Screw	1 ea.	8	1-1/4"	Pan
Reinforcement									
	Frame	None							
	Rails	10300082	DNA	Alum					
	Stiles	10300082	DNA	Alum					
	Interlock Stiles								

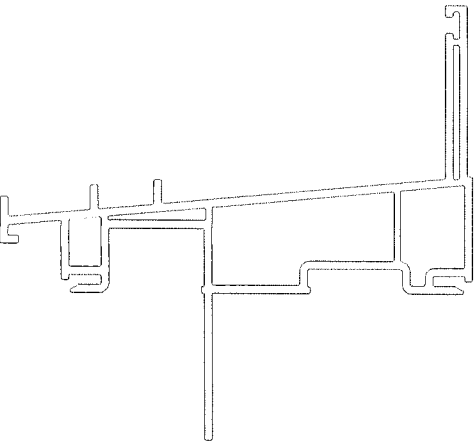
A print and CAD (dxf) drawing for any non-Deceuninck parts (i.e. glazing beads, reinforcements, bulb seals, balance covers, screen adapters, etc.), except glass and hardware components must be emailed along with a copy of this completed form to Deceuninck for the testing process to begin.

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

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
1	ADDED KPC DIMENSIONS	09/04/09	BWB

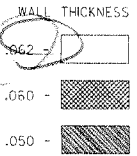
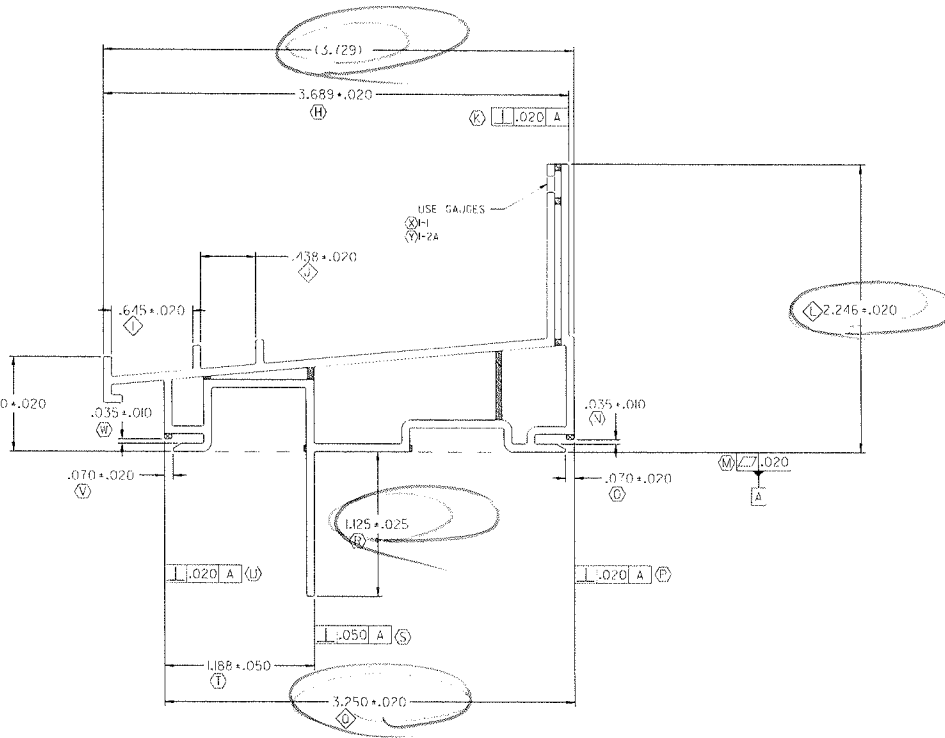
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◇	FRAME DIMENSION .720 - .760
◇	FRAME DIMENSION .625 - .665
◇	FRAME DIMENSION .488 - .458
◇	FRAME DIMENSION 2.226 - 2.266
◇	FRAME DIMENSION 3.230 - 3.270



Architectural Testing

Test sample complies with these details. Deviations are noted.

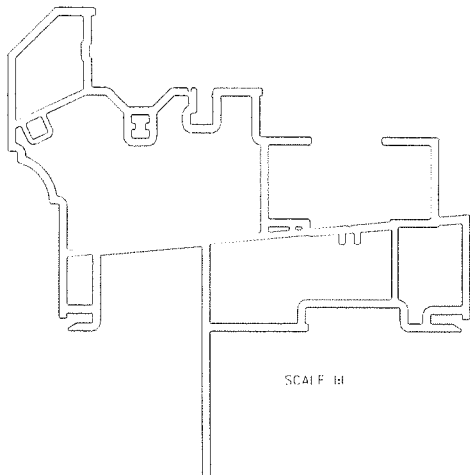
Report# B78007-01
 Date 3/10/12 Tech 36



CONFIDENTIAL UNPUBLISHED WORK © 2008 DECEUNINCK NORTH AMERICA	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES T01 ON ANGLE S + 1° 2 PL: + 0.010° 3 PL: + 0.005° INTERPRET DIM AND TOL PER ASME Y14.5M - 1994	DESIGN BY: CRB DATE: 02/06/18 DRAWN BY: CRB DATE: 02/06/18	 351 NORTH GARVER ROAD MONROE, OHIO 43060	
	THIS DOCUMENT CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. DO NOT COPY OR DISCLOSE THIS INFORMATION WITHOUT THE EXPRESS WRITTEN CONSENT OF DECEUNINCK NORTH AMERICA. DECEUNINCK NORTH AMERICA RESERVES THE RIGHT TO CHANGE THIS DRAWING AND ANY ASSOCIATED DOCUMENTS.	THIRD ANGLE PROJECTION		AUTH: DATE: AUTH: DATE: AUTH: DATE: FILENAME: \$FILE_NAME\$
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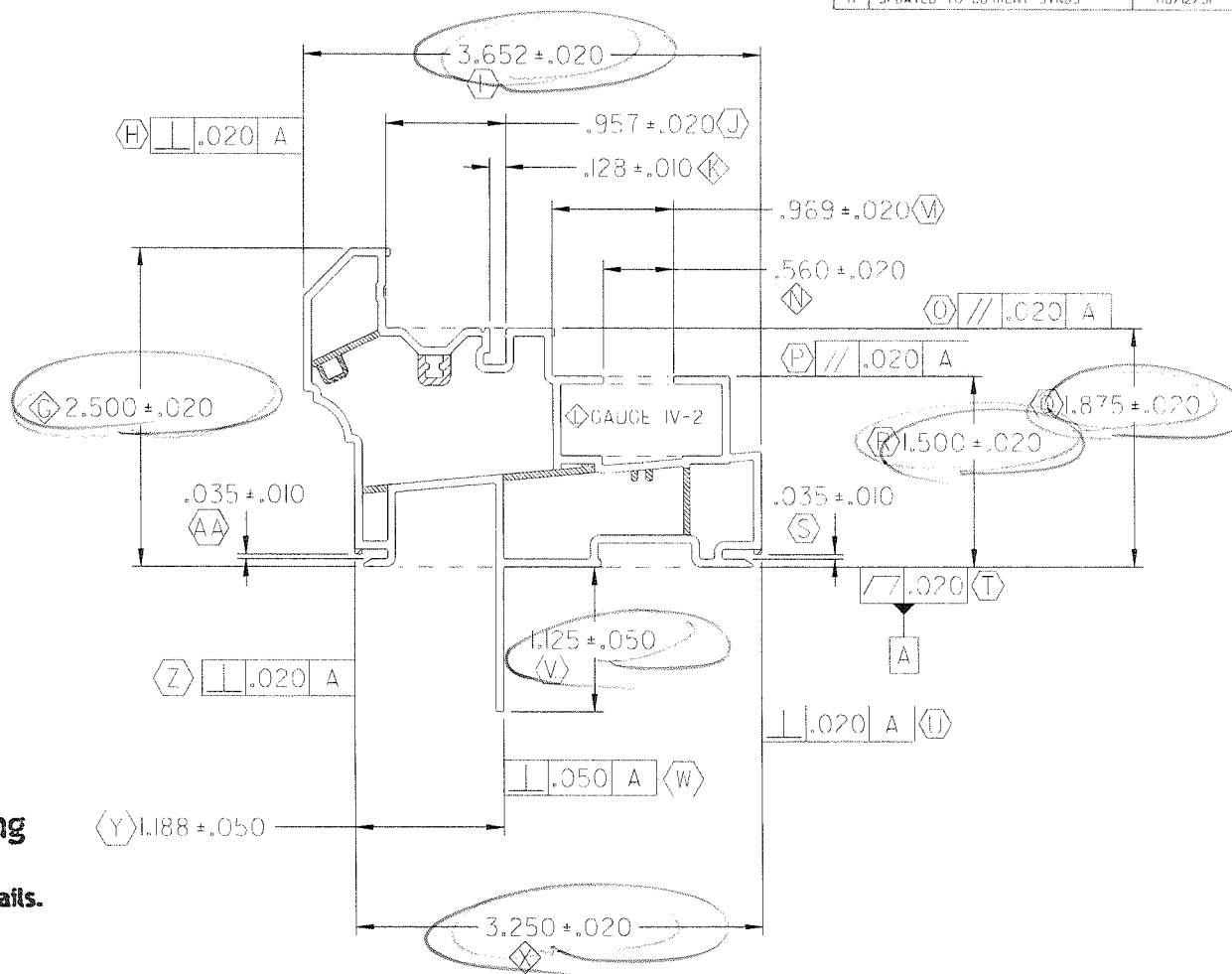
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1. ST00003 STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (A)
 2. INTERPRET ALL TOLERANCE APPLICATIONS PER ST00003 (B)
 3. UNSPECIFIED EXTERNAL RADIUS = .XXX +.010 / -.005 (C)
 4. UNSPECIFIED INTERNAL RADIUS = .XXX +.020 / -.005 (D)
 5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
 6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

SUSSEY



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REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
G	GDT-3	07/08/23	BWS
H	UPDATED TO CURRENT STANDS	08/12/31	BWS



KEY PRODUCT CHARACTERISTICS	
(C)	DIMENSION 2.480 - 2.520
(K)	DIMENSION .118 - .138
(N)	DIMENSION .540 - .580
(X)	DIMENSION 3.230 - 3.270
(L)	GAUGE IV-2

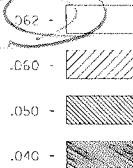


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# B7907-01
Date 3/10/12 Tech JG

WALL THICKNESS



NOTES:

1. 'ST00003' STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER ST00013 (B)
3. UNSPECIFIED EXTERNAL RADIUS = .XXX ± .010 / - .005 (C)
4. UNSPECIFIED INTERNAL RADIUS = .XXX ± .020 / - .005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX ± / - .02% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX ± / - .20% (E)

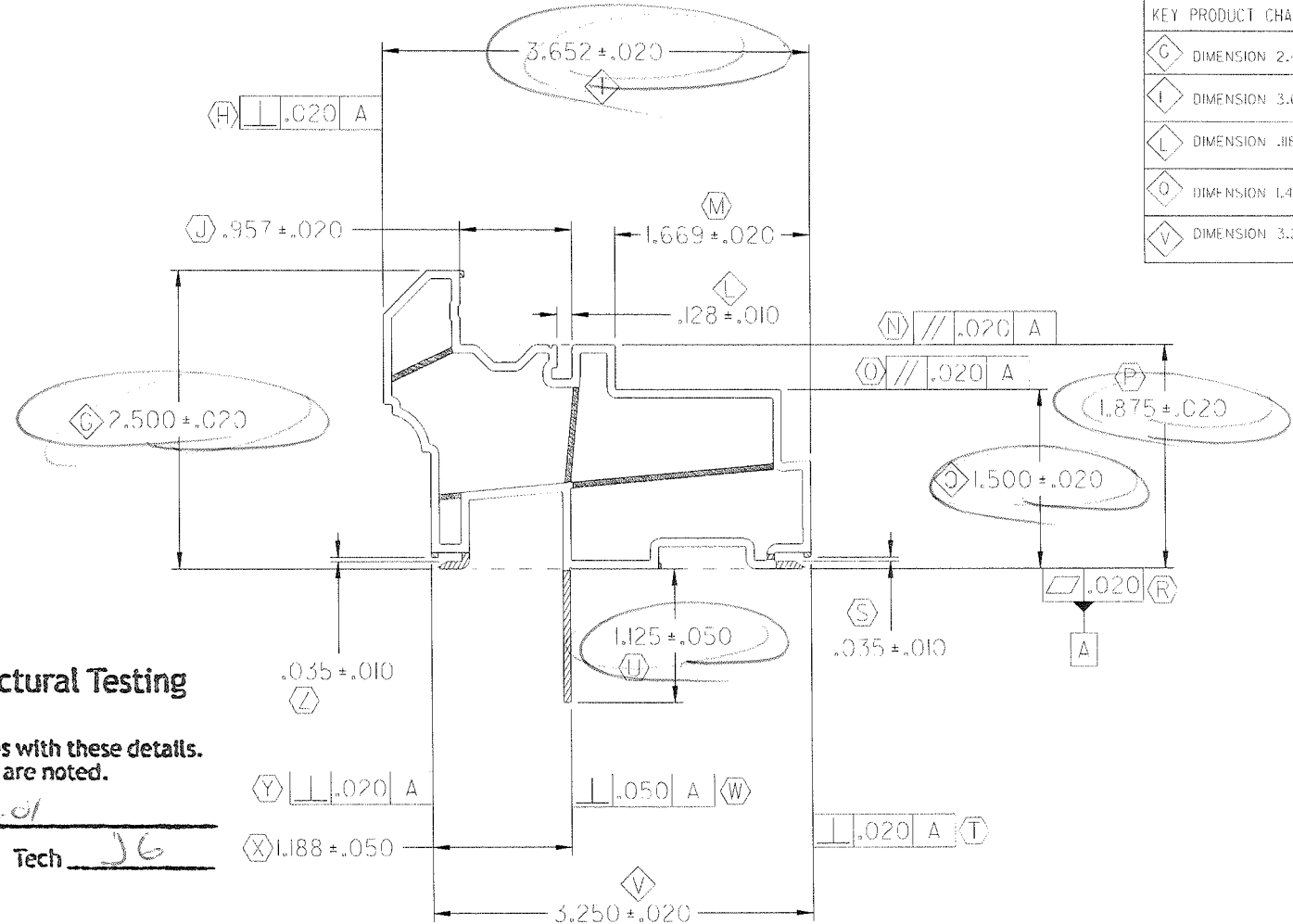
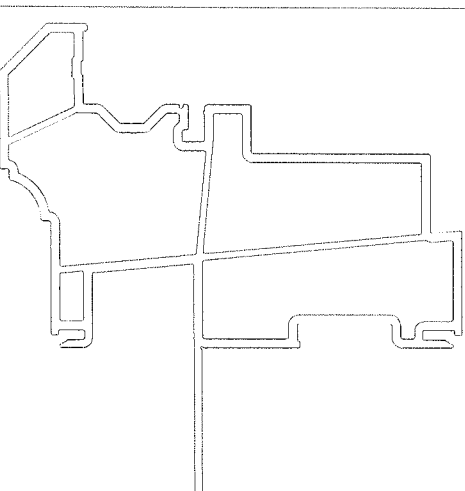
CONFIDENTIAL UNPUBLISHED WORK © 2007 DECEUNINCK NORTH AMERICA	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES 101 ON ANGLES ± 1° 2 PL: ± 0.010° 3 PL: ± 0.005° INTERPRET DIM AND TOL PER ASME Y14.5M - 1994	DESIGN BY: CRB DATE: 00/05/22 DRAWN BY: CRB DATE: 00/08/22 AUTH: DATE: AUTH: DATE: AUTH: DATE: FILENAME: 78829	deceuninck NORTH AMERICA 351 NORTH GARVER ROAD MORRIS, OHIO 45660
	THIS DOCUMENT CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. DO NOT COPY OR DISCLOSE THIS INFORMATION WITHOUT THE EXPRESS WRITTEN CONSENT OF DECEUNINCK NORTH AMERICA. DECEUNINCK NORTH AMERICA RESERVES THE RIGHT TO CHANGE THIS DRAWING AND ANY ASSOCIATED DOCUMENTS.	THIRD ANGLE - PROJECTION	NAME: MAIN FRAME - SH SIZE DWC. NO: 10008686_SH SCALE: 1:1 (LBS/FT) .775 SHEET: 1 OF 1

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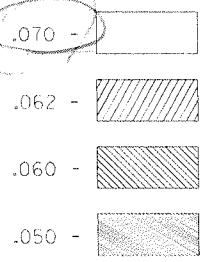
REVISION HISTORY		
REV	DESCRIPTION	DATE
H	ADDED KPC DIMENSIONS	09/01/09
		APPROVED
		BWB

KEY PRODUCT CHARACTERISTICS

G	DIMENSION 2.480 - 2.520
I	DIMENSION 3.632 - 3.672
L	DIMENSION .118 - .138
O	DIMENSION 1.480 - 1.520
V	DIMENSION 3.230 - 3.270



WALL THICKNESS



Test sample complies with these details.
Deviations are noted.

Report# B7807-01
Date 3/10/12 Tech JG

NOTES:

1. 'STD00013' STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD00013 (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)

CONFIDENTIAL UNPUBLISHED WORK © 2008 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	DESIGN BY: CRB DATE: 00/05/12 DRAWN BY: CRB DATE: 00/05/12 AUTH: DATE: AUTH: DATE: AUTH: DATE: FILENAME: 79246	deceuninck NORTH AMERICA <small>381 NORTH GARVER ROAD MORRIS, OHIO 45060</small> NAME: HEAD FRAME - SH (PW MF) SIZE (SWG. NO. 10008687_SH) REV: H SCALE: 1:1 (LBS/FT.) .772 SHEET: 1 OF 1
	THIS DOCUMENT CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. DO NOT COPY OR DISCLOSE THIS INFORMATION WITHOUT THE EXPRESS WRITTEN CONSENT OF DECEUNINCK NORTH AMERICA. DECEUNINCK NORTH AMERICA RESERVES THE RIGHT TO CHANGE THIS DRAWING AND ANY ASSOCIATED DOCUMENTS.	THIRD ANGLE PROJECTION	

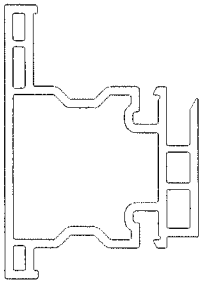
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SUSP5

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

REVISION HISTORY			
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P	KPC	09/07/02	8W3

KEY PRODUCT CHARACTERISTICS	
G	DIMENSION 2.098 - 2.138
K	DIMENSION .101 - .121
L	DIMENSION .164 - .204
Q	DIMENSION .101 - .121
V	DIMENSION 1.504 - 1.544

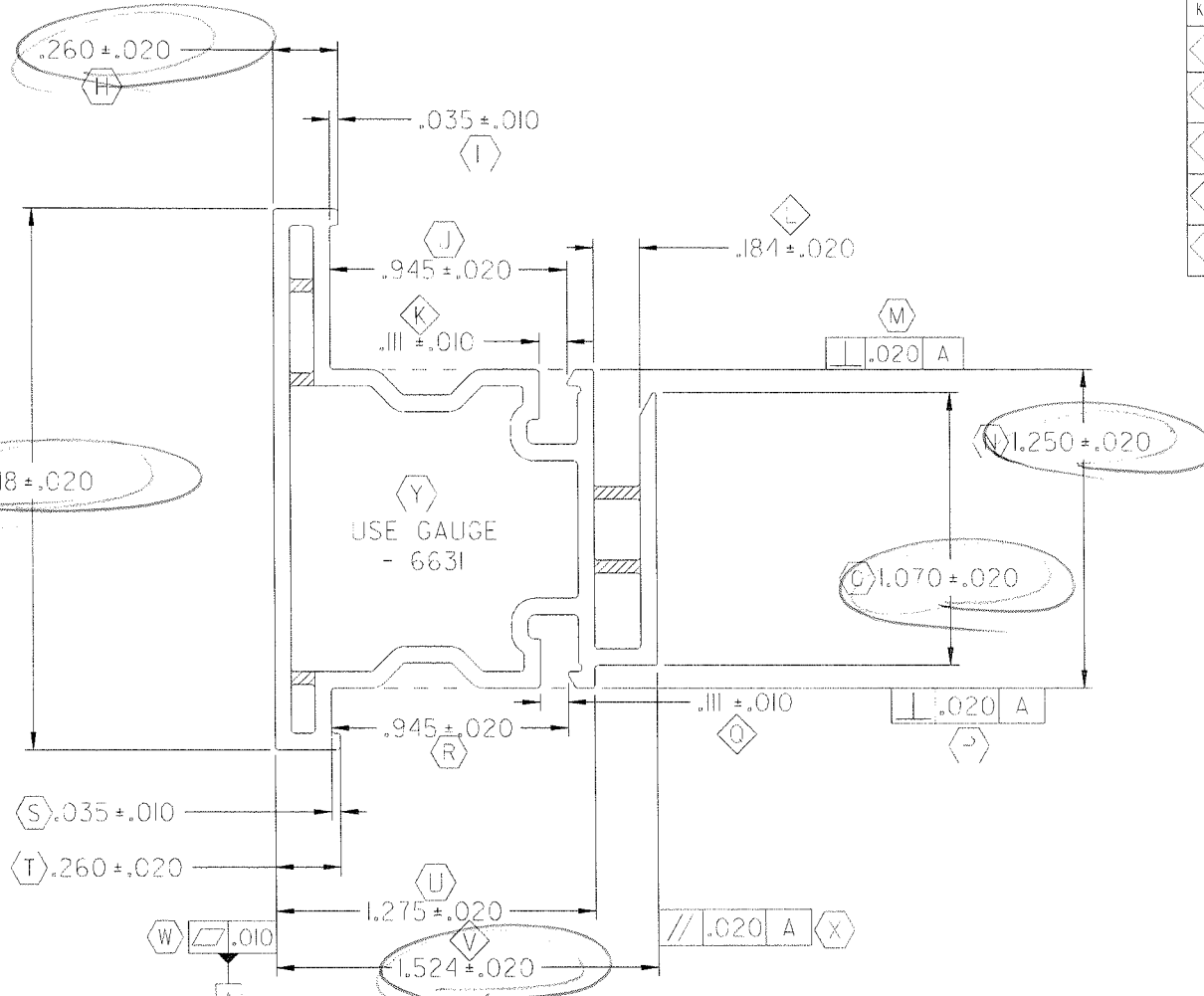
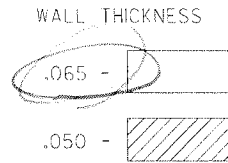


SCALE 1:1



Test sample complies with these details.
Deviations are noted.

Report# 137807-01
Date 3/10/12 Tech JG



NOTES:

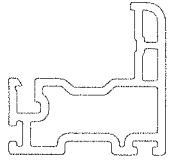
1. STD00013 STRAIGHTNESS CLASS A AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0013 (B)
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .XXX +/- 10% (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

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		<p>REV. P</p>	

PLOT DATE

SUBJECT

REV. P



SCALE 1:1

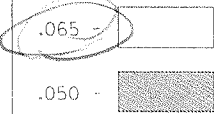
Architectural Testing

Test sample complies with these details. Deviations are noted.

Report# B7807-01

Date 3/10/12 Tech JG

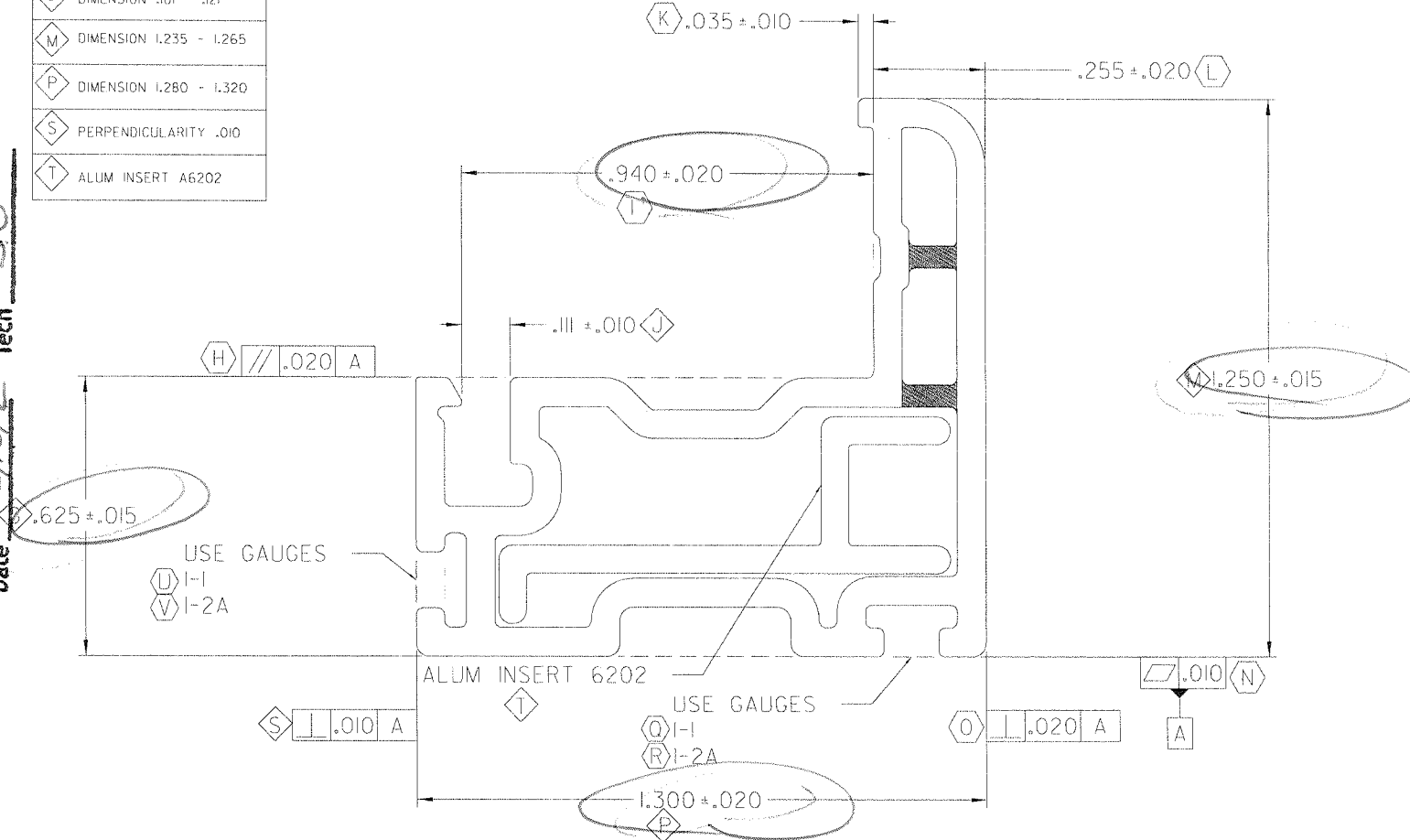
WALL THICKNESS



KEY PRODUCT CHARACTERISTICS	
G	DIMENSION .610 - .640
J	DIMENSION .101 - .121
M	DIMENSION 1.235 - 1.265
P	DIMENSION 1.280 - 1.320
S	PERPENDICULARITY .010
T	ALUM INSERT A6202

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

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
H	REDUCED TOLERANCE ON DIM S	11/08/19	BWB



NOTES:

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

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

THIRD ANGLE PROJECTION

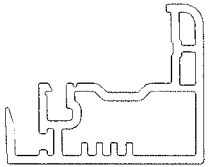


DESIGN BY:	CRB
DATE:	03/11/06
DRAWN BY:	CRB
DATE:	03/11/06
AUTH:	DATE:
AUTH:	DATE:
AUTH:	DATE:
FILENAME:	78872



NAME:		MAIN SASH	
SIZE DWG. NO:	10008842_SH	REV:	H
SCALE:	4:1 (LBS/1.1) .242	SHEET:	1 OF 1

11/19/2011 uswd 11/19/2011 uswd



SCALE 1:1



Architectural Testing

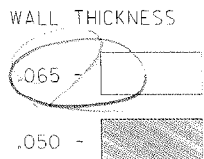
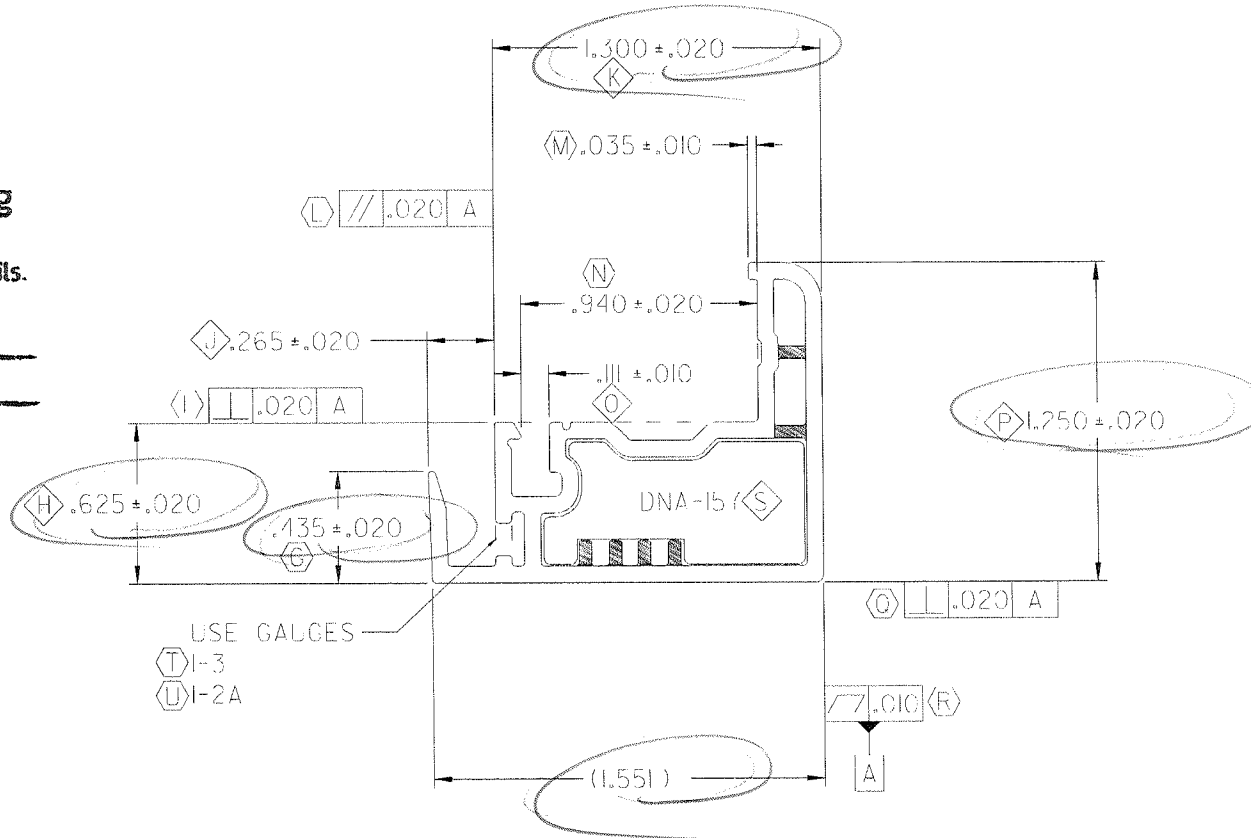
Test sample complies with these details.
Deviations are noted.

Report# B7807.01
Date 3/10/12 Tech JG

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

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
E	KPC	10/05/13	BWS

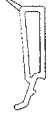
KEY PRODUCT CHARACTERISTICS	
H	DIMENSION .605 - .645
L	DIMENSION .245 - .285
K	DIMENSION 1.280 - 1.320
G	DIMENSION .101 - .121
P	DIMENSION 1.230 - 1.270
S	GAUGE DNA-157



NOTES:

1. 'STD00013' STRAIGHTNESS CLASS C AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0013(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% (E)

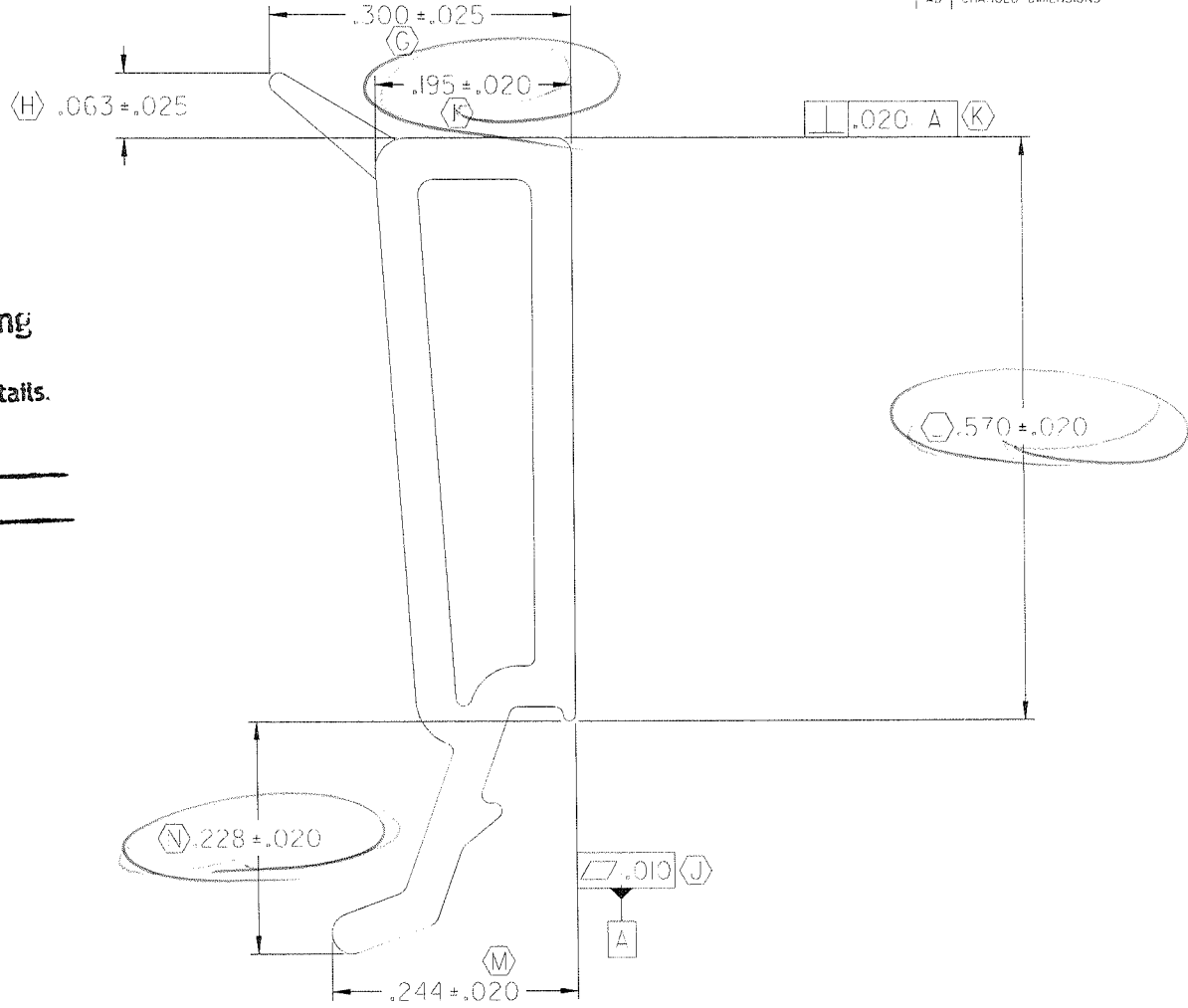
CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES. TOI ON ANGLES + 1°	DESIGN BY: CRB	deceuninck NORTH AMERICA
	2 PL: ± 0.010° 3 PL: ± 0.005° INTERPRET DIM AND TOL PER ASME Y14.5M - 1994	DATE: 03/11/10	
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		DATE: 03/11/10	
		AUTH: DATE:	REV: 1
		AUTH: DATE:	SCALE: 2:1
		FILENAME: 99628	1/25
			SHEET: 1 OF 1



SCALE 1:1

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

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
AD	CHANGED DIMENSIONS	06/09/20	BWB



Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report# B7807.01
 Date 3/10/12 Tech JG

WALL THICKNESS
 .040 -

- NOTES:
1. STANDARD STRAIGHTNESS CLASS E AND LENGTH TOLERANCES APPLY (A)
 2. INTERPRET ALL TOLERANCE APPLICATIONS PER STD0015 (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)

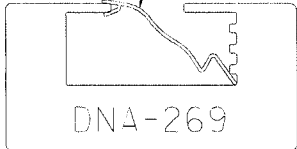
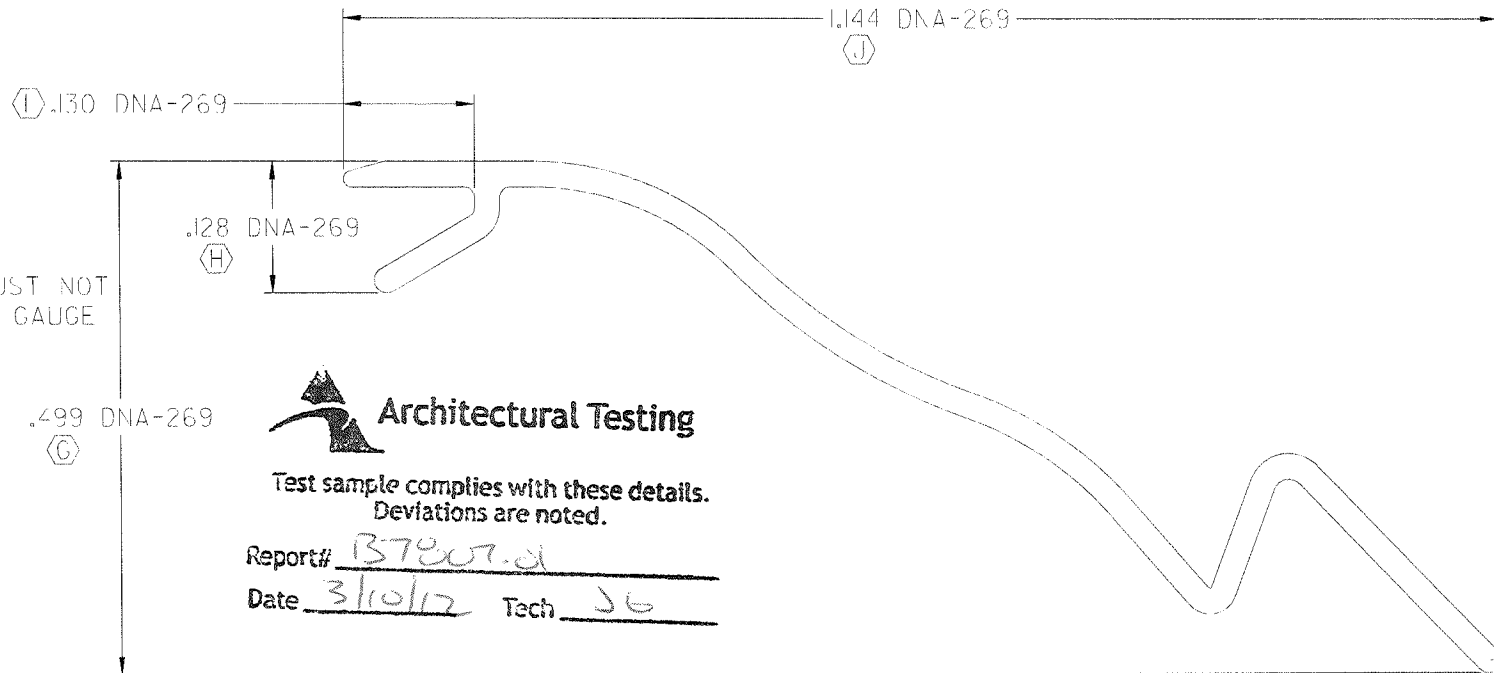
CONFIDENTIAL UNPUBLISHED WORK © 2008 DECEUNINCK NORTH AMERICA	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLES ± 1° 2 PL: ± 0.010° 3 PL: ± 0.005° INTERPRET DIM AND TOL PER ASME Y14.5M - 1994	DESIGN BY: MTC DATE: 93/06/01 DRAWN BY: MTC DATE: 93/06/01 AUTH: DATE: AUTH: DATE: AUTH: DATE: FILENAME: 71062	 NORTH AMERICA 351 NORTH OAKRIVER ROAD MONROE, OHIO 45060 NAME: GLAZING BEAD SIZE (DWG. NO): 10005470.SH SCALE: 8:1 (LBS/FT.) .043 SHEET: 1 OF 1
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SUBJECTS

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

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
C	ADDED GAUGE DNA-269	10/08/04	BWB

SCALE 1:1



WALL THICKNESS

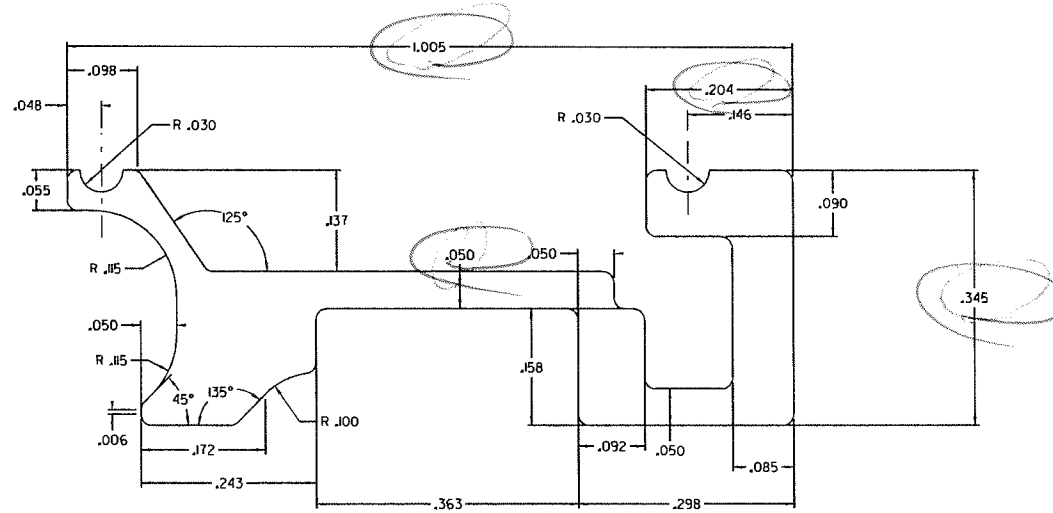
.025 -

NOTES:

1. 'STDD0003' STRAIGHTNESS CLASS E AND LENGTH TOLERANCES APPLY (A)
2. INTERPRET ALL TOLERANCE APPLICATIONS PER STDD0013 (B)
3. UNSPECIFIED EXTERNAL RADII = .XXX +.010 / -.005 (C)
4. UNSPECIFIED INTERNAL RADII = .XXX +.020 / -.005 (D)
5. UNSPECIFIED EXTERNAL WALL THICKNESS = .025 +/- .005 (E)
6. UNSPECIFIED INTERNAL WALL THICKNESS = .XXX +/- 20% (F)

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



ALL UNSPECIFIED RADII EQUALS .015



Test sample complies with these details.
Deviations are noted.

Report: B7807-01
Date: 3/10/12 Tech: JC

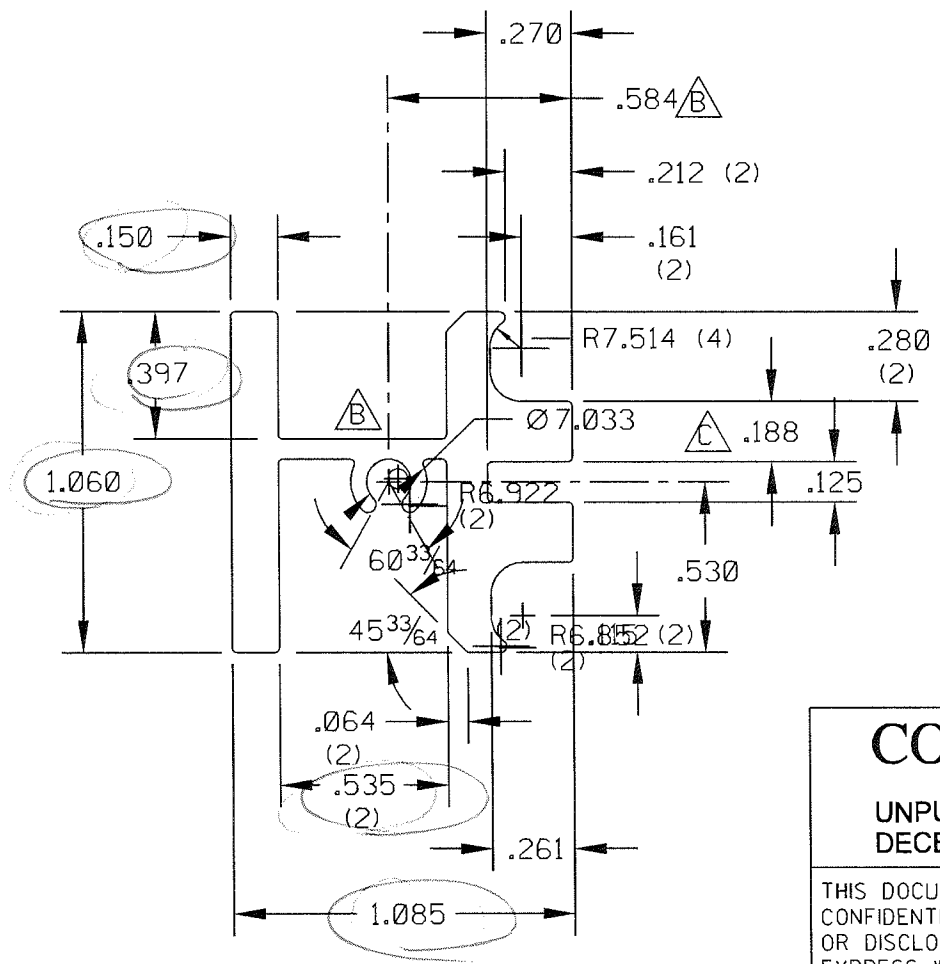
6005-T5

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1/9/2007

usgfm

H:\p01\new\8\ALUMINUM\10300082.dgn



Test sample complies with these details.
Deviations are noted.

Report# B7807.01
Date 3/10/12 Tech Jo

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NOTES

1. ALLOY/TEMPER 6005-T5, 6061-T6 or 6105-T5.
2. WALL THICKNESS UNLESS OTHERWISE SHOWN: .062".
3. NO EXPOSED SURFACES.
4. BREAK SHARP CORNERS 0.015R.
5. MOMENTS OF INERTIA: $I_{xx} = .032$; $I_{yy} = .061$.
6. \oplus INDICATES CENTROID LOCATION.

Deceuninck NORTH AMERICA/Oakland NJ

AREA = .442 PERIMETER = 6.96
WT/FT = .530 FACTOR = 13 AA STDS

FILENAME: Alum-5C 145093SH-Mtg. Rail DP50 Reba



BY RJK DATE 4-21-05 MAT'L NOTE 1 SCALE FULL

C	RJK	6-8-05	.188 WAS .223
B	RJK	5-18-05	MOVED SCREW BOSS FOR M.R. ATTACH. BRAC
A	RJK	5-3-05	GEN. REVISIONS TO INCREASE Y-Y MOMENT
REV	BY	APPV'D	DATE CHANGE