

DDS- Planning & Zoning: Historic Review Application



Submission date: **16 May 2022, 2:27PM**
Receipt number: **646**
Related form version: **2**

Property Information

Property Address
Street: 28 Girard Ave
City: Hartford
State: CT
Zip Code: 06105

Zoning District: **N/A**

Parcel ID: **133313111**

Property Owner: **PAXE HARTFORD PORTFOLIO LP**

Property Owner's Address:
Street: 139 Ocean Ave
City: Lakewood
State: NJ
Zip Code: 08701-3668

Phone: **6465191817**

Email: **Mglenn@aloftmgt.com**

Applicant

Please check if "Applicant" is the same as "Property Owner"

Name of Applicant: **Sam Shteierman**

File Date: **05/16/2022**

Address:

Street: 276 S Hope Chapel Rd

City: Jackson Township

State: NJ

Zip Code: 08527

Phone:

4048401608

Email:

sam@magnicocontracting.com

Primary Point of Contact

Name:

Sam Shteierman

Phone:

4048401608

Email:

sam@magnicocontracting.com

Describe your application action(s) and provide as much detail as possible. **Replacing existing windows with spec attached**

Proposed work:

Other: Replacing existing windows with spec attached.

Current materials being repaired/replaced:

Windows

Materials/products being used in work:

N/A

Please upload all supporting materials and photographs [VINYLDHTHERMAL.pdf](#) below.

Signatures

Signature of Applicant:



[Link to signature](#)

Name of Applicant:

Sam Shteierman

Date:

5/16/2022

If you are not the property owner, you must attach a Letter of Authorization from the property owner to apply.

Letter of Authorization from Property Owner

[doc20220511113932.pdf](#)

Date:

5/16/2022



May 10, 2022

To Whom It May Concern:

PAXE GIRARD LP authorizes Magnico Contracting to apply for building permits and perform specified work on our behalf.

Thank You,

A handwritten signature in black ink, appearing to read "A. Puretz", is positioned above the printed name.

Aaron Puretz

From: Sam Shteierman <Sam@magnicocontracting.com>

Sent: Tuesday, May 17, 2022 10:16 AM

To: Hartford Planning Division

Subject: 28 Girard Ave

Attachments: 20220322_131301.jpg; 20220322_130526.jpg

Follow Up Flag: Follow up

Flag Status: Flagged

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Please contact the helpdesk at 860-757-9411 if you have any questions.

The existing windows are believe wood.

If you have any questions please feel free to contact me.

Thank you,



Sam Shteierman
Project Manager, Connecticut Operations



(203)-742-
1208



404-
840-
1608



sam@magnicocontracting.com



www.magnicocontracting.com



92 Brookside Rd, Waterbury, CT 06708







ETC Laboratories

Corporate Offices / Laboratories

Buffalo Rd Business Center - Westside

460 Buffalo Rd

Rochester, NY 14611

Phone: (585) 328-7668

Fax: (585) 328-7777

IAS Accredited: TL-321

NFRC 100-2004, 200-2004, 500-2004 Simulation Report

Reissued To

Royal Aluminum Company

620 Market Street

Newark, NJ 07105

Productline Series/Model

900 Double Hung Window

Report Number

ETC-10-746-24398.0

Report Number: ETC-10-746-24398.0
 Job Number: ETC-10-746-24398-3
 Simulation Date: November 7, 2007
 Reissue Date: September 16, 2010
 Expiration Date: November 7, 2011
 Revision Date: N/A

NFRC 100-2004, 200-2004, 500-2004 Simulation Report

Reissued To

Royal Aluminum Company
 620 Market Street
 Newark, NJ 07105

Product Series/Model	Operating Type	Model Size (mm x mm)
900 Double Hung Window	Vertical Slider, XX	1200 x 1500

Product description of simulated sample built for NFRC 102 Validation Test*

Item	Unit	Value
Frame type	-	VY
Sash type	-	Value
Overall width	in.	47.24
Overall height	in.	59.06
Overall IG nominal thickness	-	0.875
Number of glazing layers	-	2
Glass type	-	Float
Glass 1 thickness	in.	0.098
Glass 2 thickness	in.	0.098
Glass 3 thickness	in.	-
Spacer type	-	A8-S
Gap 1 thickness	in.	0.678
Gap 2 thickness	in.	-
Low-e emissivity	-	0.027
Low-e surface	-	2
IG gap fill	-	AIR
Percent gap fill	-	-

* Mill finished aluminum reinforcements in all members of both sashes.

Item	Unit	Value
Simulated U-Factor of validation test sample	Btu/hr-ft ² -°F	0.34

Note: This report is a reissue of report ETC-07-422-19736.0.

U-factor result on this page shall not be considered NFRC certified, and shall not be used on the NFRC labels.

NFRC 100-2004 (U-factor), 200-2004 (SHGC and VT), and 500-2004 (CR-value) Productline Matrix

Fabricator Name: Royal Aluminum Company
 Product Series / Model: 900 Double Hung Window
 Operator Type: Vertical Slider, XX
 Frame Type: VY
 Sash Type: VA

Job Number: ETC-10-746-24398-3
 Sim Lab Code: SETC
 Model Size (mm x mm) 1200 x 1500
 Thermal Break Type: N

Report Number: ETC-10-746-24398.0

Product Number	Grouping ID Number	Overall IG Thickness	Pane Thickness #[1]	Pane Thickness #[2]	Pane Thickness #[3]	Gap 1	Gap 2	Gap Fill 1	% of Gap fill 1	Gap Fill 2	% of Gap fill 2	Spacer	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 4	Emissivity Surface 5	Tint	C-O-G U-factor	C-O-G SHGC	C-O-G VT	Grid Type	Grid Size	Total Product U-factor	CR - Value	Total Product SHGC	Total Product VT	Additional Comments
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001	00	0.875	0.098	0.098		0.678		AIR				A8-S	0.027					0.30	0.39	0.71	N		0.34	53	0.29	0.53	RLE7138 / CL
	01	0.875	0.098	0.098		0.678		AIR				A8-S	0.027					0.30	0.39	0.71	G	< 1"	0.34	53	0.26	0.47	RLE7138 / CL
	02	0.875	0.118	0.118		0.639		AIR				A8-S	0.027					0.30	0.39	0.71	N		0.34	53	0.29	0.52	RLE7138 / CL
	03	0.875	0.118	0.118		0.639		AIR				A8-S	0.027					0.30	0.39	0.71	G	< 1"	0.34	53	0.26	0.46	RLE7138 / CL
002	00	0.875	0.098	0.098		0.678		ARG	90			A8-S	0.027					0.26	0.39	0.71	N		0.31	56	0.29	0.53	RLE7138 / CL, Arg
	01	0.875	0.098	0.098		0.678		ARG	90			A8-S	0.027					0.26	0.39	0.71	G	< 1"	0.31	56	0.26	0.47	RLE7138 / CL, Arg
	02	0.875	0.118	0.118		0.639		ARG	90			A8-S	0.027					0.25	0.39	0.71	N		0.31	56	0.29	0.52	RLE7138 / CL, Arg
	03	0.875	0.118	0.118		0.639		ARG	90			A8-S	0.027					0.25	0.39	0.71	G	< 1"	0.31	56	0.26	0.46	RLE7138 / CL, Arg
003	00	0.875	0.098	0.098		0.678		ARG	90			A8-S	0.027	0.027				0.25	0.37	0.62	N		0.31	56	0.27	0.46	RLE7138 / RLE7138, Arg
	01	0.875	0.098	0.098		0.678		ARG	90			A8-S	0.027	0.027				0.25	0.37	0.62	G	< 1"	0.31	56	0.25	0.40	RLE7138 / RLE7138, Arg
	02	0.875	0.118	0.118		0.639		ARG	90			A8-S	0.027	0.027				0.25	0.36	0.61	N		0.31	56	0.27	0.45	RLE7138 / RLE7138, Arg
	03	0.875	0.118	0.118		0.639		ARG	90			A8-S	0.027	0.027				0.25	0.36	0.61	G	< 1"	0.31	56	0.24	0.40	RLE7138 / RLE7138, Arg
004	00	0.875	0.098	0.098		0.678		AIR				P1-S	0.027					0.30	0.39	0.71	N		0.33	56	0.29	0.53	RLE7138 / CL

Highlighted Rows Indicate Group Leaders

Report Number: ETC-10-746-24398.0

Product Number	Grouping ID Number	Overall IG Thickness	Pane Thickness #[1]	Pane Thickness #[2]	Pane Thickness #[3]	Gap 1	Gap 2	Gap Fill 1	% of Gap fill 1	Gap Fill 2	% of Gap fill 2	Spacer	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 4	Emissivity Surface 5	Tint	C-O-G U-factor	C-O-G SHGC	C-O-G VT	Grid Type	Grid Size	Total Product U-factor	CR - Value	Total Product SHGC	Total Product VT	Additional Comments
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	01	0.875	0.098	0.098		0.678		AIR				P1-S	0.027					0.30	0.39	0.71	G	< 1"	0.33	56	0.26	0.47	RLE7138 / CL
	02	0.875	0.118	0.118		0.639		AIR				P1-S	0.027					0.30	0.39	0.71	N		0.33	56	0.29	0.52	RLE7138 / CL
	03	0.875	0.118	0.118		0.639		AIR				P1-S	0.027					0.30	0.39	0.71	G	< 1"	0.33	56	0.26	0.46	RLE7138 / CL
005	00	0.875	0.098	0.098		0.678		ARG	90			P1-S	0.027					0.26	0.39	0.71	N		0.30	59	0.29	0.53	RLE7138 / CL, Arg
	01	0.875	0.098	0.098		0.678		ARG	90			P1-S	0.027					0.26	0.39	0.71	G	< 1"	0.30	59	0.26	0.47	RLE7138 / CL, Arg
	02	0.875	0.118	0.118		0.639		ARG	90			P1-S	0.027					0.25	0.39	0.71	N		0.30	59	0.29	0.52	RLE7138 / CL, Arg
	03	0.875	0.118	0.118		0.639		ARG	90			P1-S	0.027					0.25	0.39	0.71	G	< 1"	0.30	59	0.26	0.46	RLE7138 / CL, Arg
006	00	0.875	0.098	0.098		0.678		ARG	90			P1-S	0.027	0.027				0.25	0.37	0.62	N		0.29	60	0.27	0.46	RLE7138 / RLE7138, Arg
	01	0.875	0.098	0.098		0.678		ARG	90			P1-S	0.027	0.027				0.25	0.37	0.62	G	< 1"	0.29	60	0.25	0.40	RLE7138 / RLE7138, Arg
	02	0.875	0.118	0.118		0.639		ARG	90			P1-S	0.027	0.027				0.25	0.36	0.61	N		0.29	60	0.27	0.45	RLE7138 / RLE7138, Arg
	03	0.875	0.118	0.118		0.639		ARG	90			P1-S	0.027	0.027				0.25	0.36	0.61	G	< 1"	0.29	60	0.24	0.40	RLE7138 / RLE7138, Arg

Comments : Vertical Slider window with frame and sashes.
 Mill finished aluminum reinforcements in all members of both sashes.
 ARG - Argon with Single Probe filling method.
 A8-S - Duraseal Spacer (Primary Sealant: Butyl; Secondary Sealant: None); P1-S - Duralite Spacer (Primary Sealant: Butyl; Secondary Sealant: None)
 N - None.
 G (Grid Size: <1") - Products with 0.188" x 0.625" size internal grids.
 Low-e: 0.027 - ClimaGuard RLE 71/38 Low-E (Guardian)

U-factor: Thermal Transmittance through the specimen	VT: Visible Transmittance
SHGC: Solar Heat Gain Coefficient	CR: Condensation Resistance
<i>The Condensation Resistance results obtained from this procedure are for controlled laboratory conditions and do not include the effects of air movement through the specimen, solar radiation, and the thermal bridging that may occur due to the specific design and construction of the fenestration system opening.</i>	

Highlighted Rows Indicate Group Leaders

Specialty Products

900 Double Hung Window

Report Number: ETC-10-746-24398.0

	No Dividers	Divider <1"	Divider >1"
SHGC0	0.004	0.007	0.009
SHGC1	0.740	0.661	0.586
VT0	0.000	0.000	0.000
VT1	0.736	0.654	0.577

$$SHGC = SHGC_0 + SHGC_c * (SHGC_1 - SHGC_0)$$

$$VT = VT_0 + VT_c * (VT_1 - VT_0)$$

Where $SHGC_c$ = Center of Glass Solar Heat Gain Coefficient
& VT_c = Center of Glass Visible transmittance

Product Description

900 Double Hung Window

Report Number: ETC-10-746-24398.0

Frame:

Size (mm)	1200 x 1500
Material	Vinyl - Rigid
Glazing Method	
Glazing Sealant	

Sash (1):

Operation Type	Vertical Sliding
Material	Vinyl - Rigid
Glazing Method	Exterior Glazed
Glazing Sealant	Silicone

Sash (2):

Operation Type	Vertical Sliding
Material	Vinyl - Rigid
Glazing Method	Exterior Glazed
Glazing Sealant	Silicone

Reinforcement Material & Locations:

Mill finished aluminum reinforcements in all members of both sashes.

Weatherstripping Type and Locations:

Fin pile weatherstrippings in all members of both sashes except bottom rail of lower sash. Foam fill blub seal weatherstripping in bottom rail of lower sash.

Others:

ARG - Argon with Single Probe filling method.

A8-S - Duraseal Spacer (Primary Sealant: Butyl; Secondary Sealant: None); P1-S - Duralite Spacer (Primary Sealant: Butyl; Secondary Sealant: None)

Low-e: 0.027 - ClimaGuard RLE 71/38 Low-E (Guardian)

This report, in its original form contains product drawings and a Bill of Materials.

Report Number: ETC-10-746-24398.0

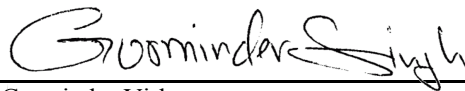
Conditions, Terms, and General Notes Regarding The Simulation

The individual products were simulated in full accordance with NFRC 100-2004, 200-2004 & 500-2004, using NFRC approved programs Window 5.2 and THERM 5.2. All window specifications were received from drawings and bill of materials supplied by the manufacturer. This report may not be reproduced except in full, without the approval of ETC Laboratories. This report relates only to the items simulated. Rounding is per NFRC unit conversion and rounding Policy. The rating values included in this report are for submittal to an NFRC-licensed IA and not meant to be used directly for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) by an NFRC accredited Inspection Agency (IA) are to be used for labeling purposes.

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Limitation of Liability: Due diligence was used in rendering the professional opinion. By acceptance of this report, the client agrees to hold harmless and indemnify ETC Laboratories, Inc. from and against all liability, claims, and demands of any kind whatsoever, which arise out of or in any manner connected with the performance of the work referred to herein.

FOR ETC LABORATORIES



Gurminder Virk
Simulation Technician
Thermal Simulation Department



Gurjinder Dhami
Simulator-in-Responsible Charge, NFRC Certified Simulator
Thermal Simulation Department

Attachments: This report is complete only when all attachments listed are included.
Appendix A: Drawings (16)

Report Number: ETC-10-746-24398.0

Revision History

<u>Date</u>	<u>Rev. #</u>	<u>Revisions</u>
November 7, 2007	.0	Original report issue.

Appendix A

Drawings

- Bill of Materials:** List of materials 1 page.
- Assembly Drawings:** Vertical and Horizontal 1 page.
- Detail Parts:** 2013 QC, 3012 QC, 3002 QC, 3004 QC, 3000 QC, 3003 QC, 3005 QC, 3008 QC, 20758, Truseal Duraseal Spacer 2 pages, Truseal Duralite Spacer 2 pages and Rectangular grid 1 page.

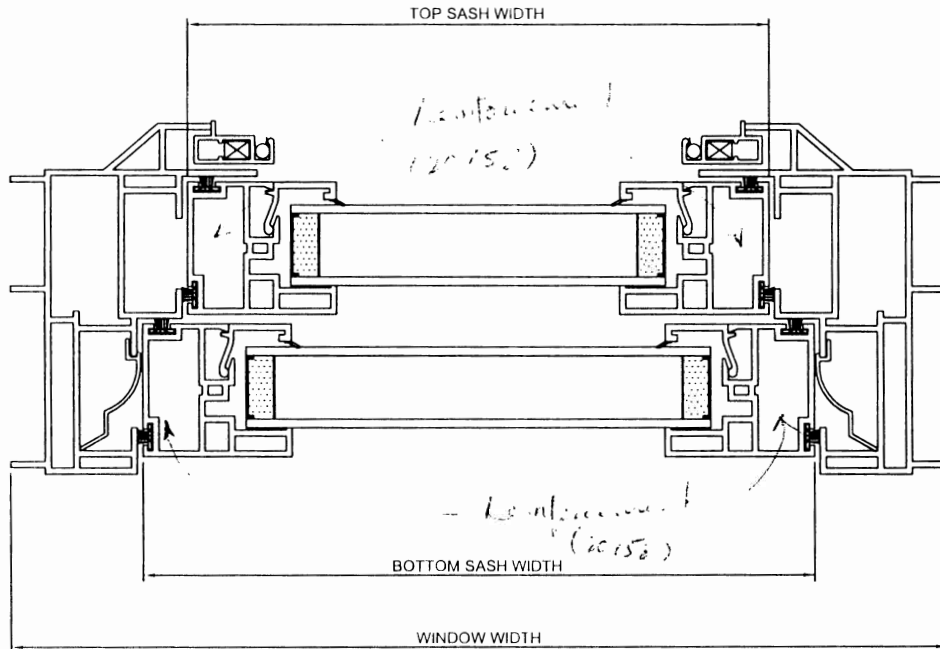
Verified By: GV Date: 09/16/2010

ETC Laboratories

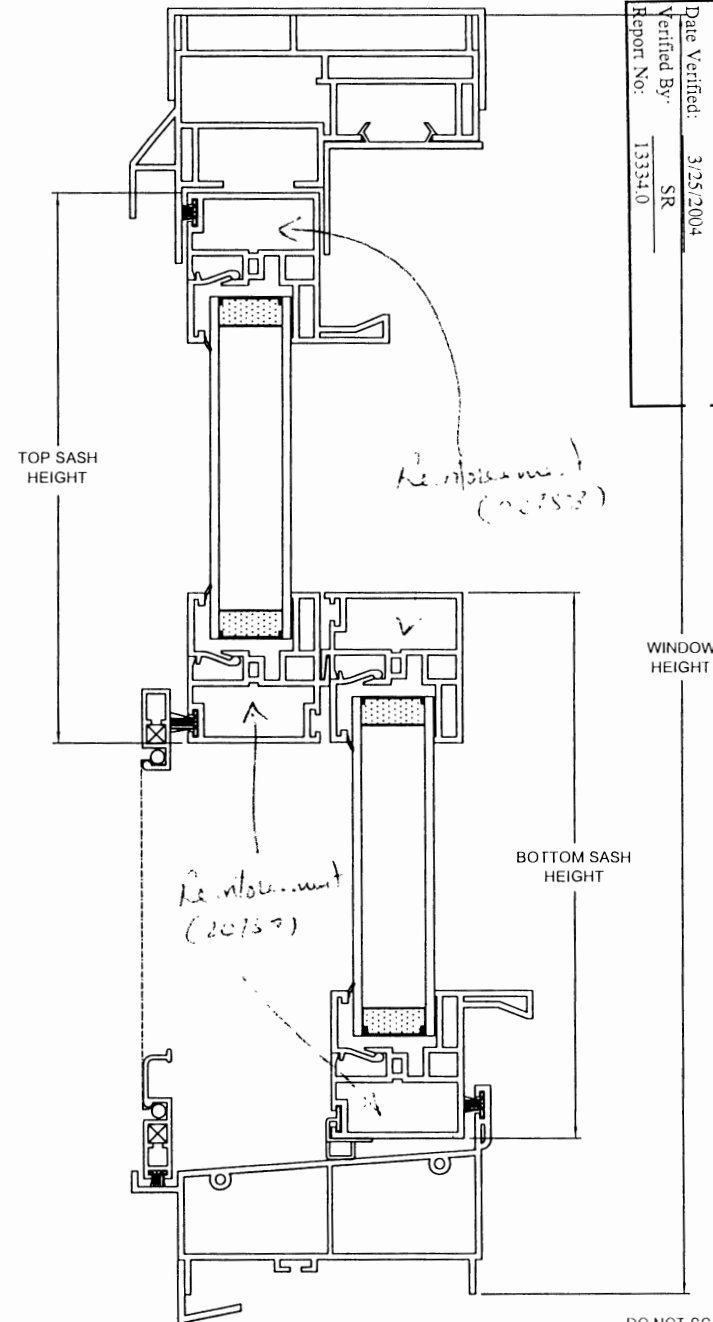
297 Buell Road
Rochester, NY 14624
(716) 328-7668

Date Verified: 3/25/2004
Verified By: Norman R
Report No: DH 80099 BUL OF MATERIAL

Item	Description	Vendor NUMBER	Vendor PART No.	Quantity	Units Req'd	NE Units of Measure	Extended Quantity NE Units
DH800 Total Window							
1	1002 Glass 72 x 84 Spl Strength - Clear	n/a	SSB			sq ft	6.18
2	1003	#N/A	#N/A			#N/A	0
3	1004 Night Latch - Heavy Duty White	?????	BW081-18			pcs	2.00
4	1010 Screen Cloth 20" x 800' roll	B1447	SCFC30X600			sq ft	0
5	1014 Label Customer Order	Q????	4080			pcs	2
6	1015 Balance Case Half	C1025	70010000			pcs	8
7	1016 Locking Collar	C1025	70020000			pcs	4
8	1017 Balance Mounting Bracket	C1025	70080000			pcs	4.00
9	1019 Stretch Wrap 80 ga - 8000' roll	0	MOC-126080			feet	32.87
10	1020 Banding Strap 7/16" x 0.025	?????	MEP716-8B			feet	4.5
11	1021 Screen Corner (Internal)	C1300	96-245-042			pcs	0
12	1022 Pivot Bar Housing	?????	242			pcs	4
13	1024 Plug L/R Rail LH White	C1300	96-454-021-L			pcs	2
14	1026 Plug L/R Rail RH White	C1300	96-454-021-R			pcs	2.00
15	1033 Screen Frame Handle White	E1140	56720W			inches	0
16	1037 Screen Frame Lip White	E1140	56721W			inches	0.00
17	1041 Screen Frame Plain White	E1140	56722W			inches	0
18	1042 Plug - Sill	H1007	B-A320-XX-F018			pcs	2.00
19	1043 Backer Plate (Al coil .040 x 1.125)	?????	???????????????			inches	18
20	1044 Spring Coil 4 lb	J1870	FG4803			pcs	4
21	1048 Spring (screen plunger)	L1800	LC022B12MD			pcs	0
22	1075 Tilt Latch - Flush Mount - White - LH	A1500	WH103-11352-2L			pcs	2
23	1079 Tilt Latch - Flush Mount - White - RH	A1500	WH103-11352-2R			pcs	2.00
24	1058 Screen Spine 0.185 x 500' spool	P1100	SS165			feet	0
25	1062 Pivot Bar	S1225	PB-631			pcs	4
26	1064 Spring - Screen (side)	S1225	SP-23			pcs	0
27	1070 Swaggle - Grey 43/64" x 855 ft	T1234	759-87B-767			feet	9.21
28	1071 Weatherstrip - White (bulb seal) - 2000' spool	U1015	E2091010			feet	1.29
29	1073 Woolpile White - 5000' spool	U1015	WM12656W			feet	13.27
30	1080 Lock - DH - White	V1234	Z3211BW			pcs	1
31	1081 Keeper - DH - White	V1234	Z8213BW			pcs	1
32	1082 Screw #7A x 1 Phil Flat Head White	W1075	0710APW			pcs	4
33	1083 Beaker - Blk/cons - 5 gal - Crystal Blue	T1234	901-806-305			gallon	0.010086063
34	1097 Screw #8A x 1 1/2 Phil Flat Head White	W1075	0814APW			pcs	8
35	1098 Screw #8A x 1/2 Phil Truss Head White	W1075	0804ATW			pcs	4
36	1099 Screw #7A x 3/4 Phil Truss Head White	W1075	0708ATW			pcs	2
37	1100 Label Brand/Instructions	B1045	50470			pcs	1
38	1101 Screen Puff Tabs	C1300	96-427-015			pcs	0
39	1119 Sash Stop - DHSS	Q2000	2008			inches	14
40	1120 Sill - DHMS	Q2000	2013			inches	16.25
41	1125 Sill - WDHBSH	Q2000	3000 ✓			inches	70.25
42	1126 L/R Rail - WDHBSH	Q2000	3002 ✓			inches	30
43	1127 Keeper Rail - WDHIF	Q2000	3003 ✓			inches	14.8
44	1128 Lock Rail - WDHIM	Q2000	3004 ✓			inches	16.8
45	1129 Head Adapter - WDHDA	Q2000	3006 ✓			inches	16.28
46	1131 Clamping Bead - WDHGB	Q2000	3008 ✓			inches	106.75
47	1132 Jamb - WDHMF	Q2000	3012 ✓			inches	92.75
48	1144 Balance Cover - DHBC	Q2000	900			inches	33
49	1145 Head Expander (new) - CPHXn	Q2000	920			inches	18.00
50	1146 Mullion - GPHM	Q2000	930			inches	0
51	1252 Clip - Grid	T1234	316-6250-650			pcs	0
52	1256 Muntin Bar 3/16" X 5/8" - White	B1051	CB20SW100625			feet	0.00
53	1257	#N/A	#N/A			#N/A	0
54	1268 Reinforcing Plate (Al coil .080 x 1.25)	???????	?????????????????			inches	0
55	1269 Reinforcing Plate (Al coil .080 x 1.4375)	H1007	?????????????????			inches	0
56	1270 Styrofoam Insulation DH800 Jamb #A	0	Welded Jamb Part A			inches	0
57	1271 Styrofoam Insulation DH800 Jamb #B	0	Welded Jamb Part B			inches	0
58	1272	#N/A	#N/A			#N/A	0
59	1273	#N/A	#N/A			#N/A	0
60	1274	#N/A	#N/A			#N/A	0
61	1275	#N/A	#N/A			#N/A	0
62	1276	#N/A	#N/A			#N/A	0
63	1277	#N/A	#N/A			#N/A	0
64	1278	#N/A	#N/A			#N/A	0
65	1279	#N/A	#N/A			#N/A	0
66	1280	#N/A	#N/A			#N/A	0
67	1281	#N/A	#N/A			#N/A	0
68	1282	#N/A	#N/A			#N/A	0



3/25/04 GS

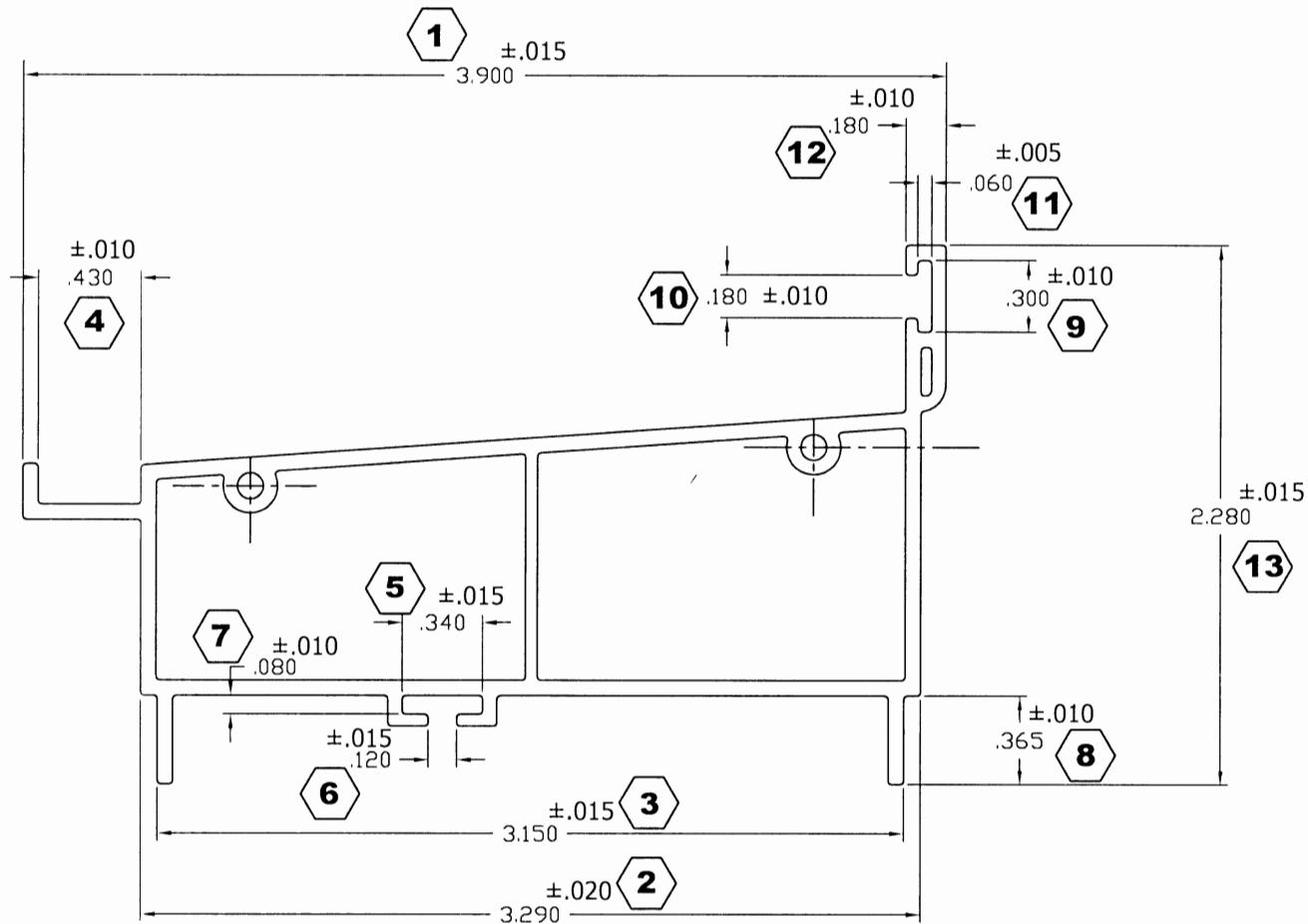


DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE



<p>QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"</p>	LOCATION FOR IMPACT TEST SPECIFICATION-LENGTHS TO 3/8"	ALLOWABLE BOW MAX 1" PER 14" ANGULARITY TO BE ± 1/2°	TOLERANCES- .XX ± .010 .XXX ± .005
	1) MATERIAL RIGID PVC 2) CAPSTOCK 3) UNSPECIFIED WALLS 4) BREAK ALL CORNERS .015 5) AREA SQ. IN. 6) WT/FT	TITLE SERIES 900-DOUBLE HUNG WELDED MAIN FRAME / WELDED SASH	
DRAWN FOR QUALITY LINEALS	DRAWN BY DDS	SCALE 1/8" = 1'-0"	DATE 8/26/03
		CHKD BY [Signature]	APPD BY [Signature]
		COMPUTER NO [Blank]	
		DWG NO Q-188 PH CROSS SECTION	

ETC Laboratories
 297 Buell Road
 Rochester, NY 14624
 (716) 328-7668
 Date Verified: 3/25/2004
 Verified By: SR
 Report No: 133340

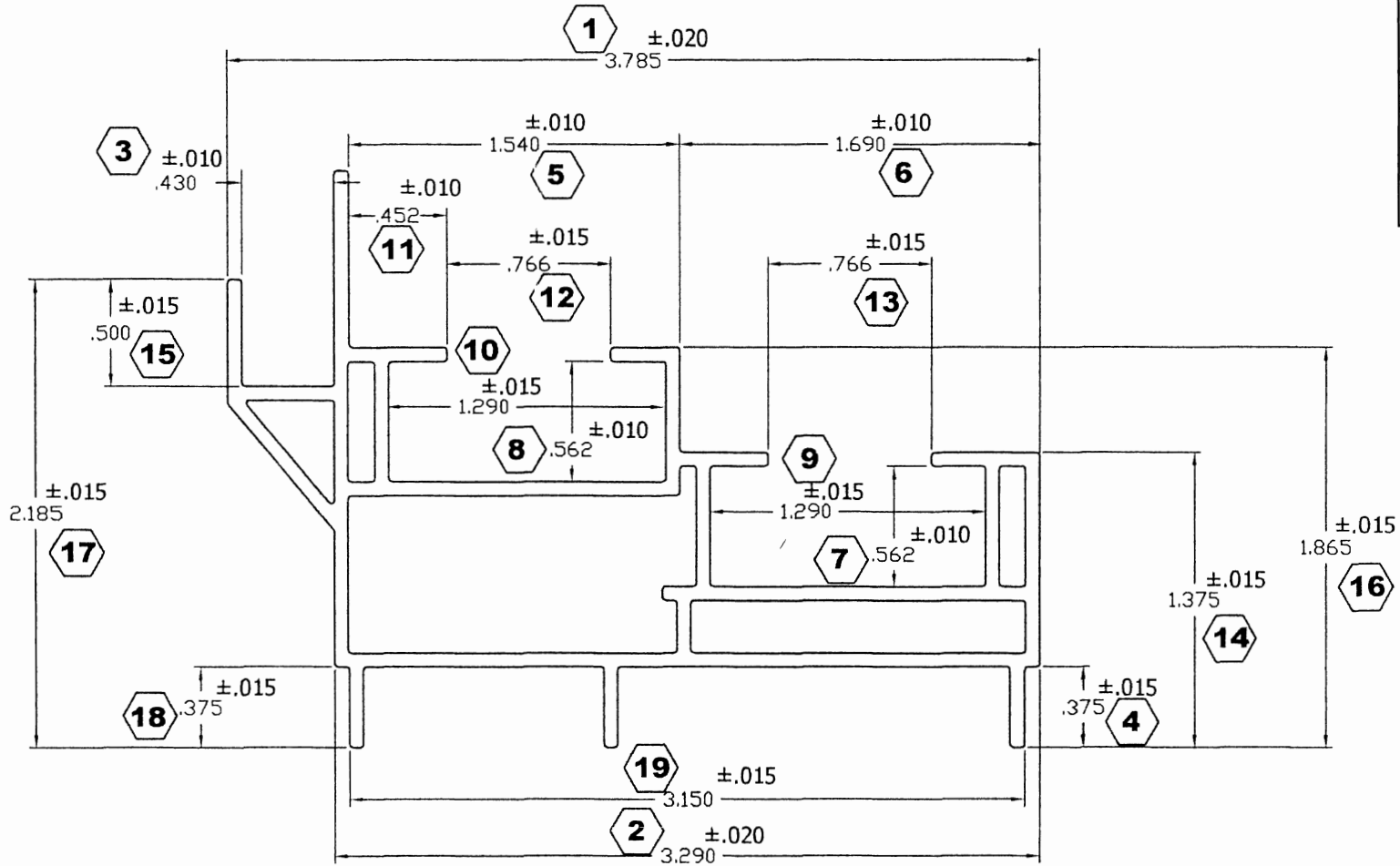


DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE


<input checked="" type="checkbox"/> LOCATION FOR IMPACT TEST SPECIFICATION-LENGTHS TO 3/8"	ALLOWABLE BOW MAX. 1" PER 14' ANGULARITY TO BE ± 1/2°	WALL TOLER. .055/.075 WT/FT-MIN .460 MAX. .572			
		TITLE MECHANICAL DOUBLE HUNG SILL			
DRAWN FOR  BY DDS DESIGNS "OUR NAME SAYS IT ALL"	1) MATERIAL RIGID PVC 2) CAPSTOCK  3) UNSPECIFIED WALLS .065 4) BREAK ALL CORNERS .015 5) AREA .815 SQ. IN. 6) WT/FT .512		DWN BY DDS SCALE NONE DATE 1/21/03 CHKD BY APPD BY	COMPUTER NO DWG NO BLE	2013 QC

ETC Laboratories
 297 Buell Road
 Rochester, NY 14624
 (716) 328-7668
 Date Verified: 3/25/2004
 Verified By: SR
 Report No: 133340



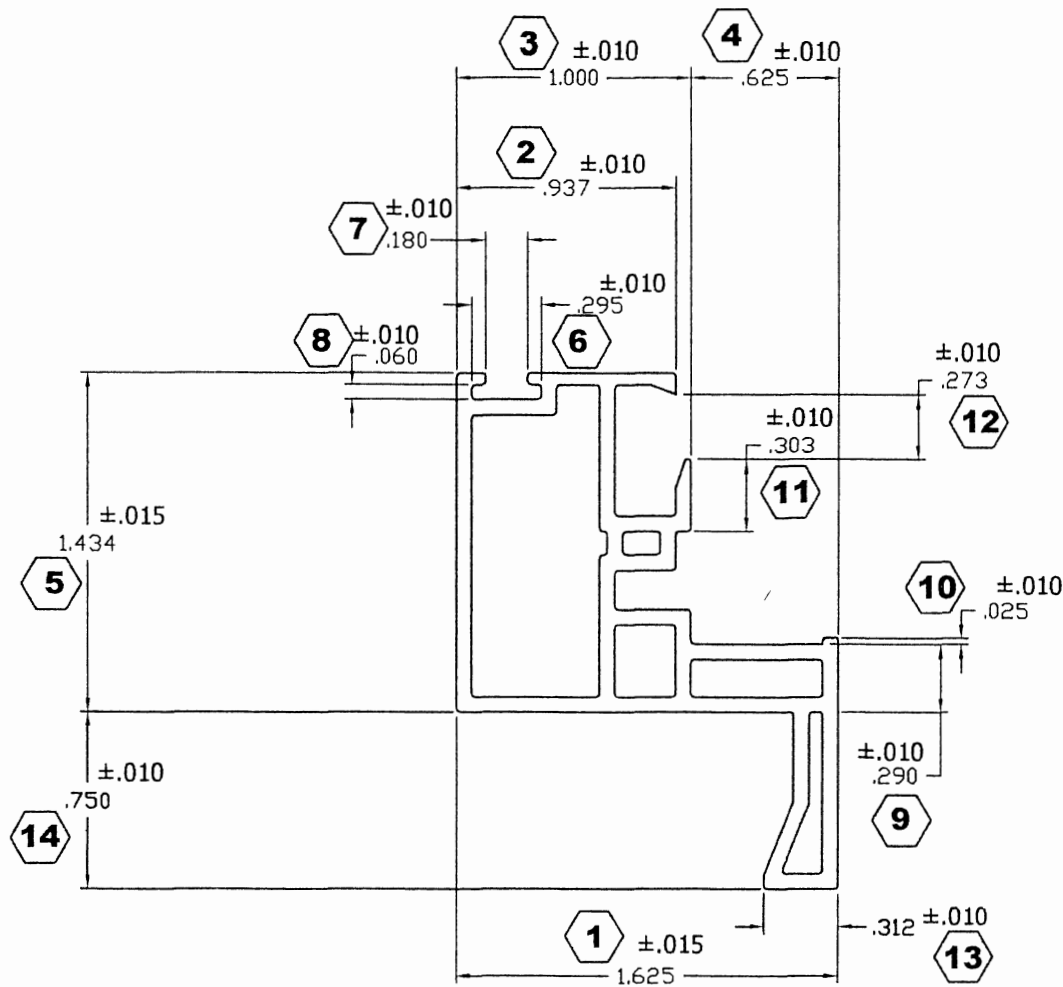
DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE


<input checked="" type="checkbox"/> LOCATION FOR IMPACT TEST SPECIFICATION LENGTHS TO ± 3/8"	ALLOWABLE BOW MAX. 1" PER 14' ANGULARITY TO BE ± 1/2 °	WALL TOLER. .055/.075 WT/FT- MIN. .617 MAX. .753
	TITLE WELDED DOUBLE HUNG JAMB NO FIN NO J	
DRAWN FOR  BY DDS DESIGNS "OUR NAME SAYS IT ALL"	1) MATERIAL RIGID PVC 2) CAPSTOCK 3) UNSPECIFIED WALLS .065 4) BREAK ALL CORNERS .015 R 5) AREA 1.090 SQ. IN. 6) WT/FT .685 LBS/FT.	DWN BY: DDS SCALE: NONE DATE: 1/23/03 CHKD BY: APPD BY: COMPUTER NO: DWG NO: B-3012 QC

ETC Laboratories
 297 Buell Road
 Rochester, NY 14624
 (716) 328-7668

Date Verified: 3/25/2014
 Verified By: SR
 Report No: 13334.0

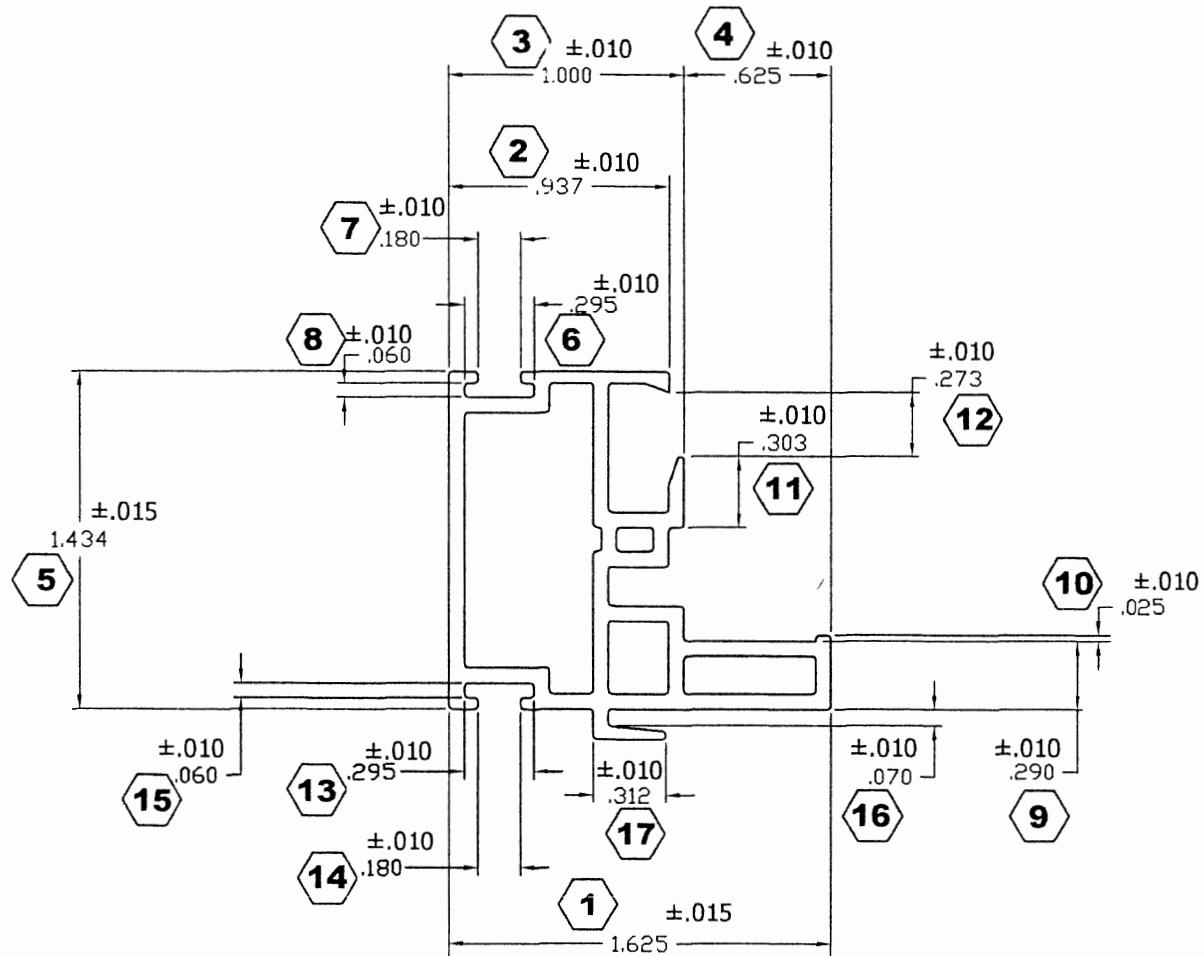


DO NOT SCALE DRAWING

<input checked="" type="checkbox"/> LOCATION FOR IMPACT TEST SPECIFICATION LENGTHS TO ± 3/8"	ALLOWABLE BOW MAX. 1" PER 14'	WALL TOLER. .055/.075	
	ANGULARITY TO BE ± 1/2 °	WT/FT- MIN. .342 MAX. .418	
DRAWN FOR  BY DDS DESIGNS "OUR NAME SAYS IT ALL"	1) MATERIAL RIGID PVC	TITLE WELDED DOUBLE HUNG HANDLE SASH	
	2) CAPSTOCK	DWN BY DDS	SCALE NONE
	3) UNSPECIFIED WALLS .065	DATE 1/21/03	CHKD BY
	4) BREAK ALL CORNERS .015 R	COMPUTER NO	APPD BY
	5) AREA .604 SQ. IN.	DWG NO B-3002 QC	
	6) WT/FT .380 LBS/FT.		


NO.	REVISION	BY	DATE

ETC Laboratories
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 Report No: 15334.0



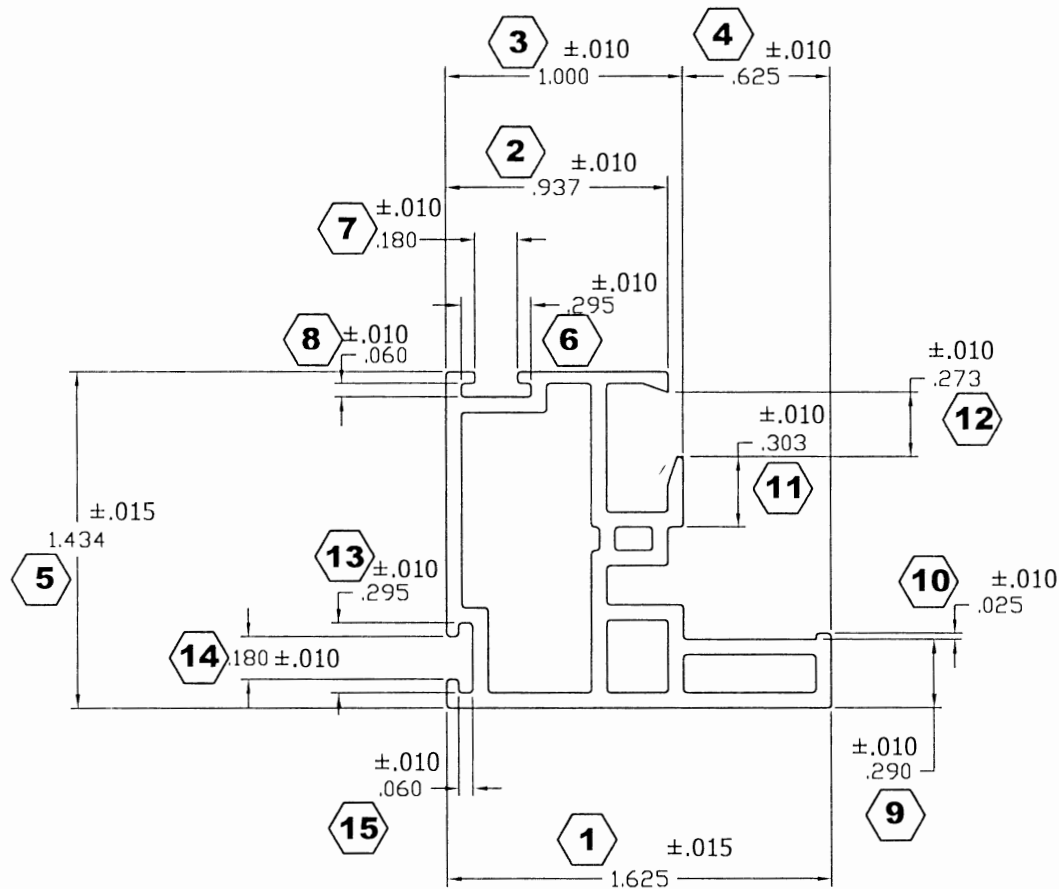
DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE

<input checked="" type="checkbox"/> LOCATION FOR IMPACT TEST SPECIFICATION LENGTHS TO $\pm 3/8"$	ALLOWABLE BOW MAX. 1" PER 14'	WALL TOLER. $.055/.075$	
	ANGULARITY TO BE $\pm 1/2^\circ$	WT/FT- MIN. $.299$ MAX. $.365$	
DRAWN FOR  QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"	1) MATERIAL RIGID PVC	TITLE WELDED DOUBLE HUNG	
	2) CAPSTOCK	MALE	
3) UNSPECIFIED WALLS $.065$	DWN BY DDS	SCALE NONE	DATE 1/21/03
4) BREAK ALL CORNERS $.015R$	CHKD BY	APPD BY	
5) AREA $.528$ SQ. IN.	COMPUTER NO		
6) WT/FT $.332$ LBS/FT.	DWG NO B-3004 QC		


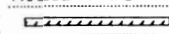
ETC Laboratories
 297 Buell Road
 Rochester, NY 14624
 (716) 328-7668

Date Verified: 3/25/2004
 Verified By: SR
 Report No: 133340



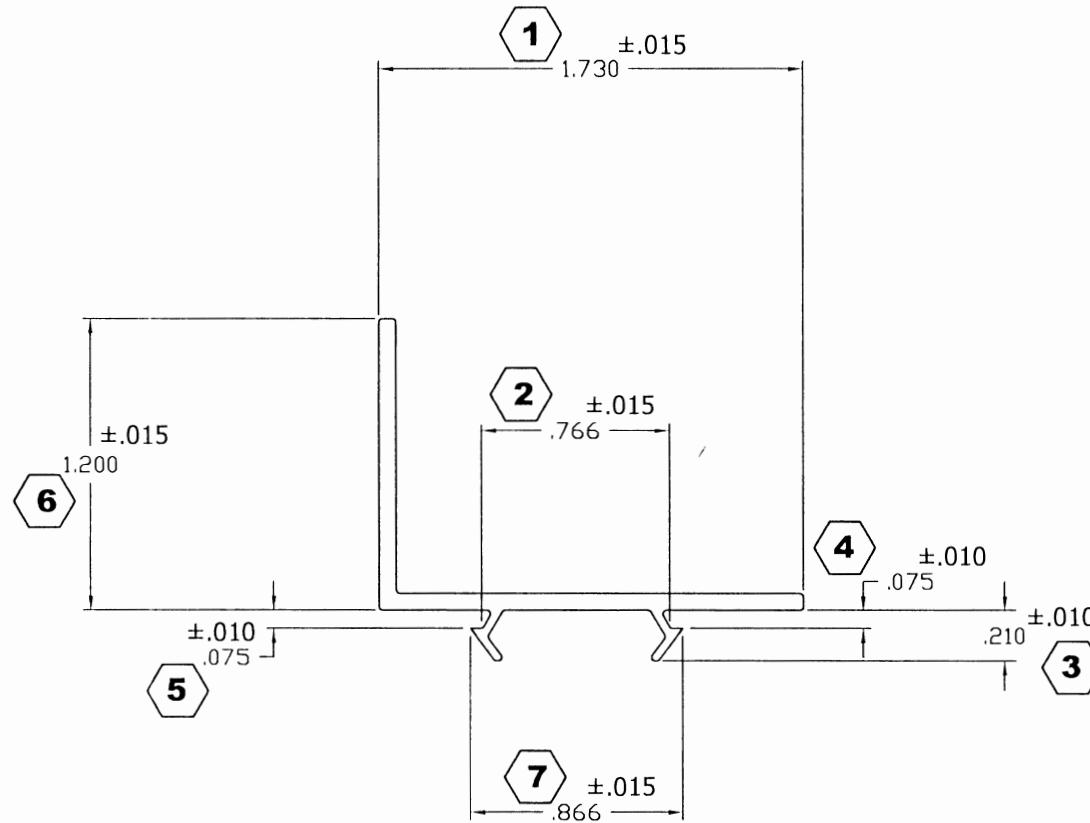
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NO.	REVISION	BY	DATE


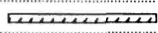
 <p>QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"</p>	LOCATION FOR IMPACT TEST SPECIFICATION-LENGTHS TO 3/8" ALLOWABLE BOW MAX. 1" PER 14' ANGULARITY TO BE ± 1/2°	WALL TOLER. .055/.075 WT/FT-MIN .281 MAX. .343
1) MATERIAL RIGID PVC 2) CAPSTOCK  3) UNSPECIFIED WALLS .065 4) BREAK ALL CORNERS .015 5) AREA .496 SQ.IN. 6) WT/FT .312	TITLE WELDED DOUBLE HUNG REGULAR SASH	
DWN BY DDS SCALE NONE DATE 1/21/03 CHKD BY APPD BY COMPUTER NO	DWG NO BLS-3000 QC	

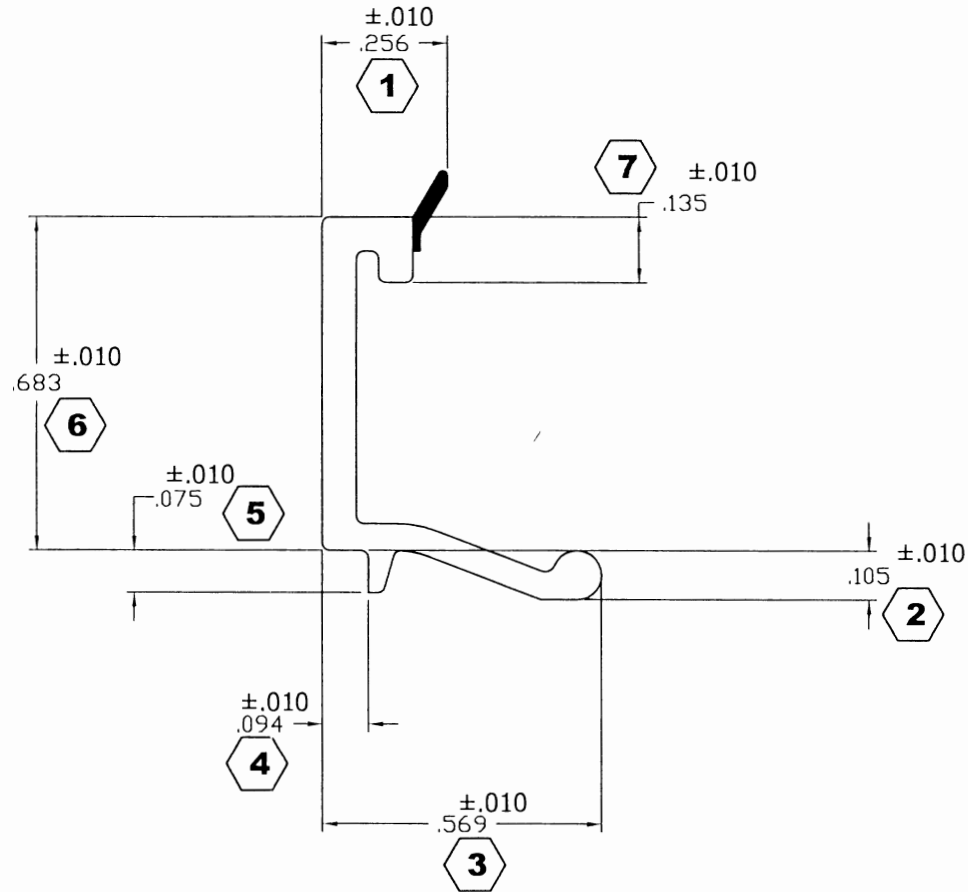
ETC Laboratories
 297 Buell Road
 Rochester, NY 14624
 (716) 328-7668

Date Verified: 3/25/2004
 Verified By: SR
 Report No: 133340


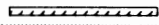


DO NOT SCALE DRAWING

 QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"	LOCATION FOR IMPACT TEST SPECIFICATION-LENGTHS TO 3/8"	ALLOWABLE BOW MAX. 1" PER 14' ANGULARITY TO BE ± 1/2°	WALL TOLER. .055/.075 WT/FT-MIN .115 MAX. .141	
	1) MATERIAL RIGID PVC 2) CAPSTOCK  3) UNSPECIFIED WALLS .065 4) BREAK ALL CORNERS .015 5) AREA .203 SQ.IN. 6) WT/FT .128	TITLE WELDED DOUBLE HUNG HEAD ADAPTER		DWN BY DDS SCALE NONE DATE 1/26/03 CHKD BY APPD BY COMPUTER NO
NO.	REVISION	BY	DATE	DWG NO B-1005 QC



DO NOT SCALE DRAWING

<input checked="" type="checkbox"/>	LOCATION FOR IMPACT TEST	ALLOWABLE BOW MAX. 1" PER 14"	WALL TOLER. $.060 / .080$
	SPECIFICATION-LENGTHS TO 3/8"	ANGULARITY TO BE $\pm 1/2^\circ$	WT/FT-MIN $.056$ MAX. $.068$
DRAWN FOR	 QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"	1) MATERIAL RIGID PVC 2) CAPSTOCK  3) UNSPECIFIED WALLS $.070$ 4) BREAK ALL CORNERS $.015$ 5) AREA $.098$ SQ. IN. 6) WT/FT $.062$	TITLE WELDED DOUBLE HUNG GLAZING BEAD DWN BY DDS SCALE NONE DATE 1/26/03 CHKD BY APPD BY COMPUTER NO DWG NO B-L-3008 QC

NO.	REVISION	BY	DATE

ETC Laboratories

Report #: ETC-10-746-24398.0
Date: 09/16/2010

98004 Verified By: GV

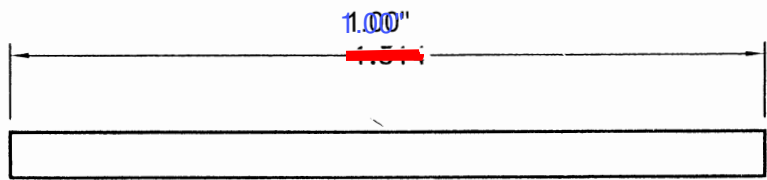
20758
DIE NUMBER

ETC Laboratories

297 Bush Road
Rochester, NY 14624
(716) 328-7668

Date Verified: 3/25/2004
Verified by: [Signature]
Report No: 13334.0

ACTUAL SIZE
NO EXPOSED SURFACE



ALL CORNERS .015 RADIUS UNLESS SPECIFIED UNSPECIFIED WALL THICKNESS .080 ALLOY/TEMPER 6063-T5 *Alum.*

EST. AREA .105		EST. PERIMETER 2.788		Alcoa Extruded Construction Products			
EST. WT. PER FT. .126		FACTOR 22					
STANDARD TOLERANCES FOR EXTRUDED PRODUCTS APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE				CITY MERRICK		STATE N. Y.	
				DESCRIPTION STIFFENER			
REVISIONS		DATE		SCALE 3 X 1	DRAWN BY M.M.	DATE 03/28/2001	
				END USE CODE	PRODUCT CLASS	SOLID <input checked="" type="checkbox"/>	HOLLOW <input type="checkbox"/>
				CUSTOMER NO.			

Duraseal™ Thermal Model Information Rev 8 July 1, 2005 for DuraSeal™ Model Rev 2.03

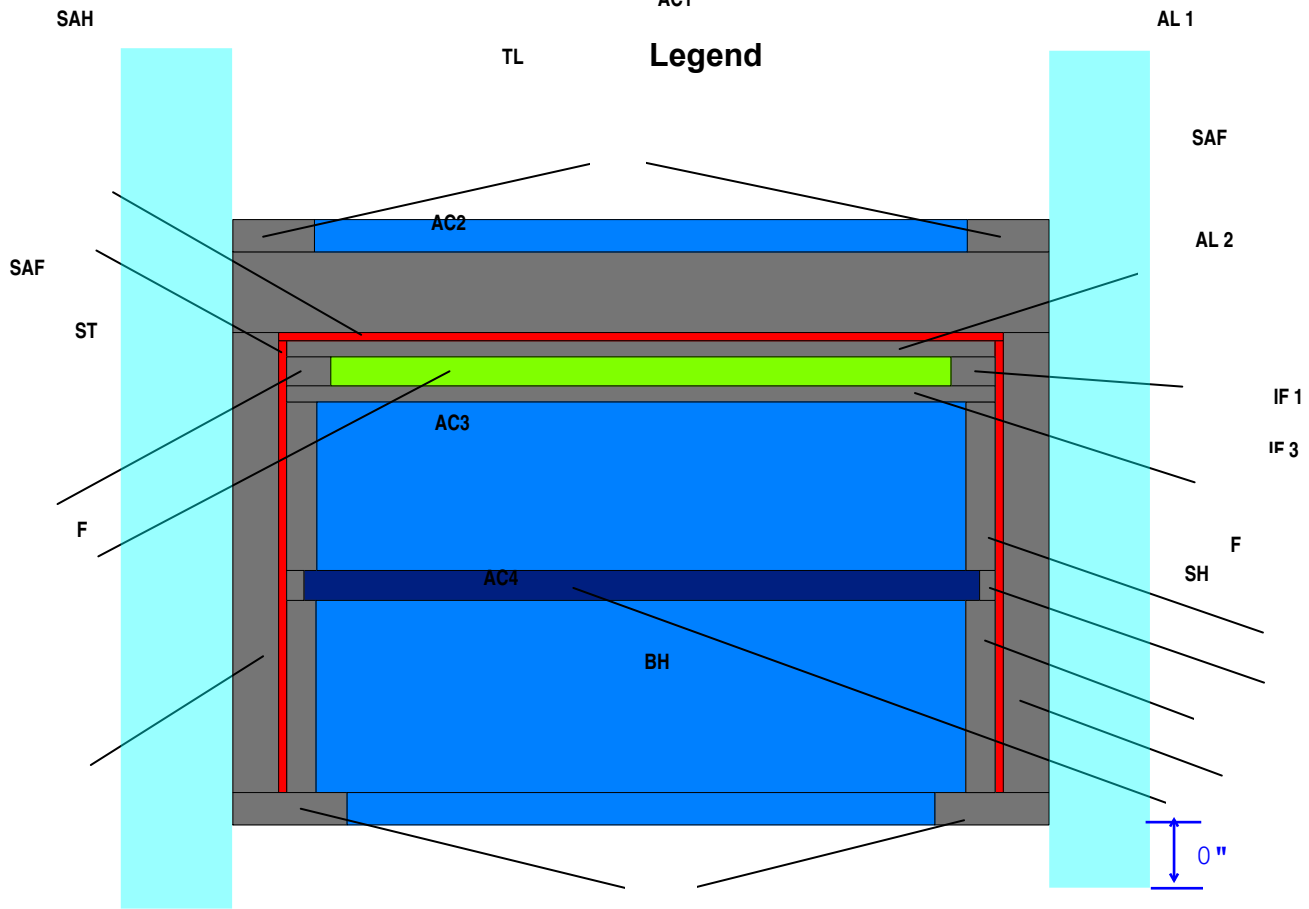
Attached is a drawing and dimension table of Duraseal™ for thermal simulations. This document is useful for simulators and as a draft NFRC document. The dimensions found here are of the compressed product. Customers who want their windows simulated with Duraseal™ should provide this document to the simulation laboratory. This should be used with the predrawn spacer drawing DS.dxf. Watch conductivity assignments closely to prevent confusion among the various polymers in use. **All dimensions are in inches**

Gap	Code	N	BH	TL	SAW	SAH	ST	SH	AC1	AC2	AC3	AC4	AL1 AL 2	SAF	IF 1	IF 2	IF 3	F
No. of rectangles		2	2	1	1	2	1	1	1	1	1	1	2	2	2	2	2	2
1/4	25H	↑	↑	0.250	0.227	↑	0.170	0.194	0.134	0.168	0.168	0.110	0.198	↑	↑	↑	↑	↑
5/16	31H			0.313	0.269		0.233	0.256	0.196	0.230	0.230	0.172	0.260					
3/8	37H			0.375	0.331		0.295	0.319	0.259	0.293	0.293	0.235	0.323					
7/16	43H			0.438	0.394	0.004 x 0.194	0.358	0.382 X 0.011	0.322	0.356 X 0.062	0.356 X 0.072	0.298	0.386					
1/2	50H	0.058	0.070	0.500	0.456	0.004	0.421	0.444	0.384	0.418	0.418	0.360	0.448	0.014	0.015	0.015	0.002	0.022
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		0.022	0.007	0.048	0.004	0.209	0.018	0.012	0.022	0.069	0.080	0.007	0.015	0.018	0.069	0.080	0.012	0.213
9/16	56H	↓	↓	0.563	0.519	↓	0.483	0.507	0.447	0.481	0.481	0.423	0.511	↓	↓	↓	↓	↓
5/8	62H			0.625	0.581		0.545	0.569	0.509	0.543	0.543	0.485	0.573					
11/16	68H			0.688	0.644		0.608	0.632	0.572	0.606	0.606	0.548	0.636					

Notes to this table

1. The arrows indicate that the dimension remains the same in that direction. For example SAF is the same dimension in all sizes.
2. Dimensions in **bold** are constant for a group of sizes as indicated.
3. Use this dimension to complete the rectangle in boxes that show only one dimension.
4. Boxes with two numbers shown, the upper number is in the airspace dimension. The lower number is parallel to the glass.
5. If you have any questions about this chart please call:

Werner Lichtenberger, TruSeal Technologies, Inc. 905 522 9058 or 888 257 7605 voice mail. Or E-mail lichtenberger@truseal.com



Description

**Material and Conductivity
Imp SI**

N	71X	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
BH	71X	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
TL	71X	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
SAW	Moisture vapour barrier	Default polyethylene	Default polyethylene
SAH	Moisture vapour barrier	Default polyethylene	Default polyethylene
ST	Stiffener	Default polypropylene	Default polypropylene
SH	Shim	Default aluminum	Default aluminum
AL 1 2	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
AC 2	still air	still air – default conductivity	default still air
AC 1 3 4	link to respective adjacent air cavities		
SAF	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
IF 1 2 3	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
F	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C

DuraLite™ Model Rev 1.01 Thermal Model Information Rev 1 July 18, 2005

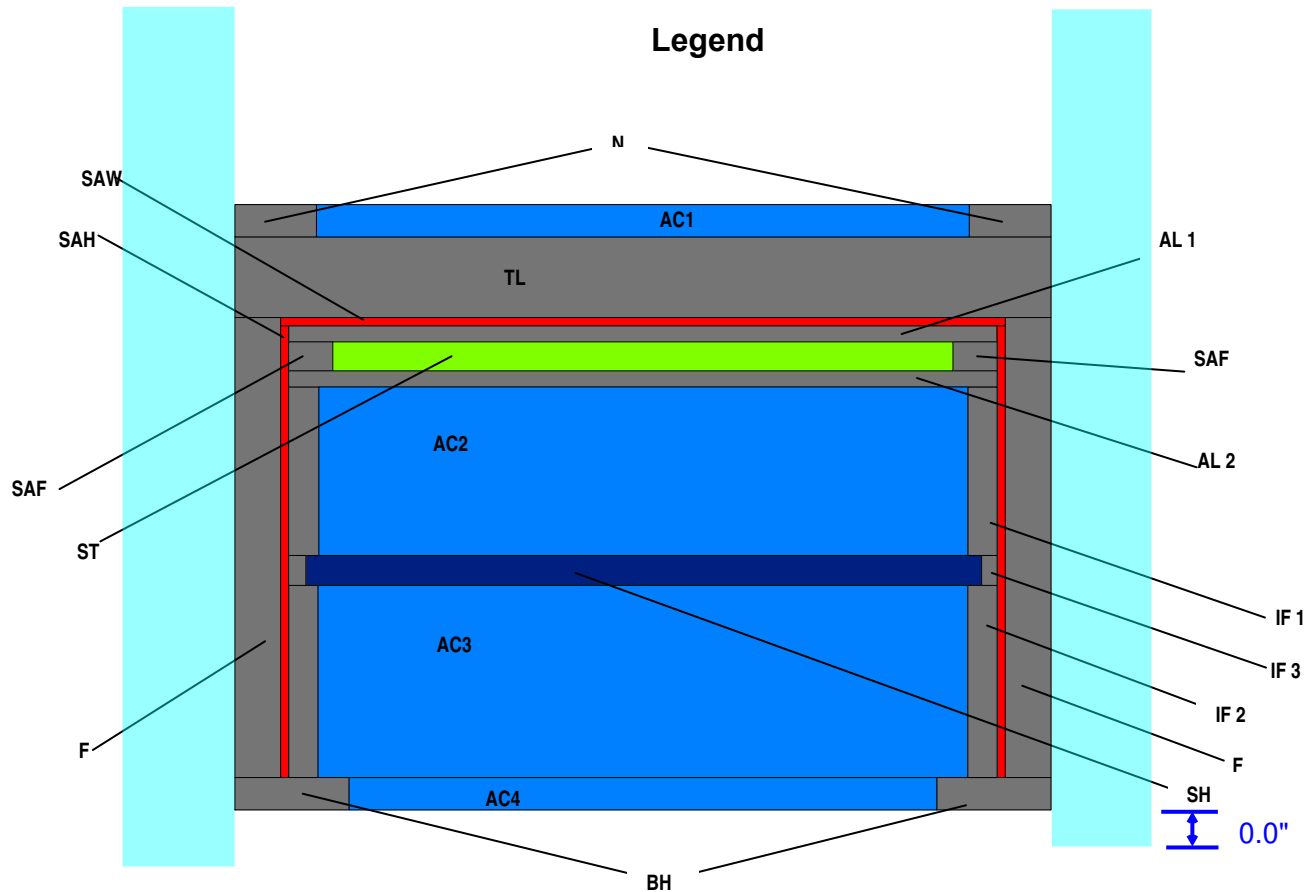
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No. of rectangles		2	2	1	1	2	1	1	1	1	1	1	2	2	2	2	2	2
¼	25H	↑	↑	0.250	0.227	↑	0.170	0.194	0.134	0.168	0.168	0.110	0.198	↑	↑	↑	↑	↑
5/16	31H			0.313	0.269		0.233	0.256	0.196	0.230	0.230	0.172	0.260					
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7/16	43H			0.438	0.394		0.004 x 0.194	0.382 X 0.027	0.322	0.356 X 0.054	0.356 X 0.064	0.298	0.386					
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		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		0.022	0.007	0.048	0.004	0.209	0.018	0.028	0.022	0.061	0.072	0.007	0.015	0.018	0.061	0.072	0.028	0.213
9/16	56H	↓	↓	0.563	0.519	↓	0.483	0.507	0.447	0.481	0.481	0.423	0.511	↓	↓	↓	↓	↓
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**Description****Material and Conductivity
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SAH	Moisture vapour barrier	Default polyethylene	Default polyethylene
ST	Stiffener	Default polypropylene	Default polypropylene
SH	Shim	Default polycarbonate	Default polycarbonate
AL 1 2	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
AC 2	still air	still air – default conductivity	default still air
AC 1 3 4	link to respective adjacent air cavities		
SAF	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
IF 1 2 3	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C
F	Adhesive	Butyl 1.603 Btu in/hr ft ² °F	0.231 W/m/°C

If there are questions regarding this document please call

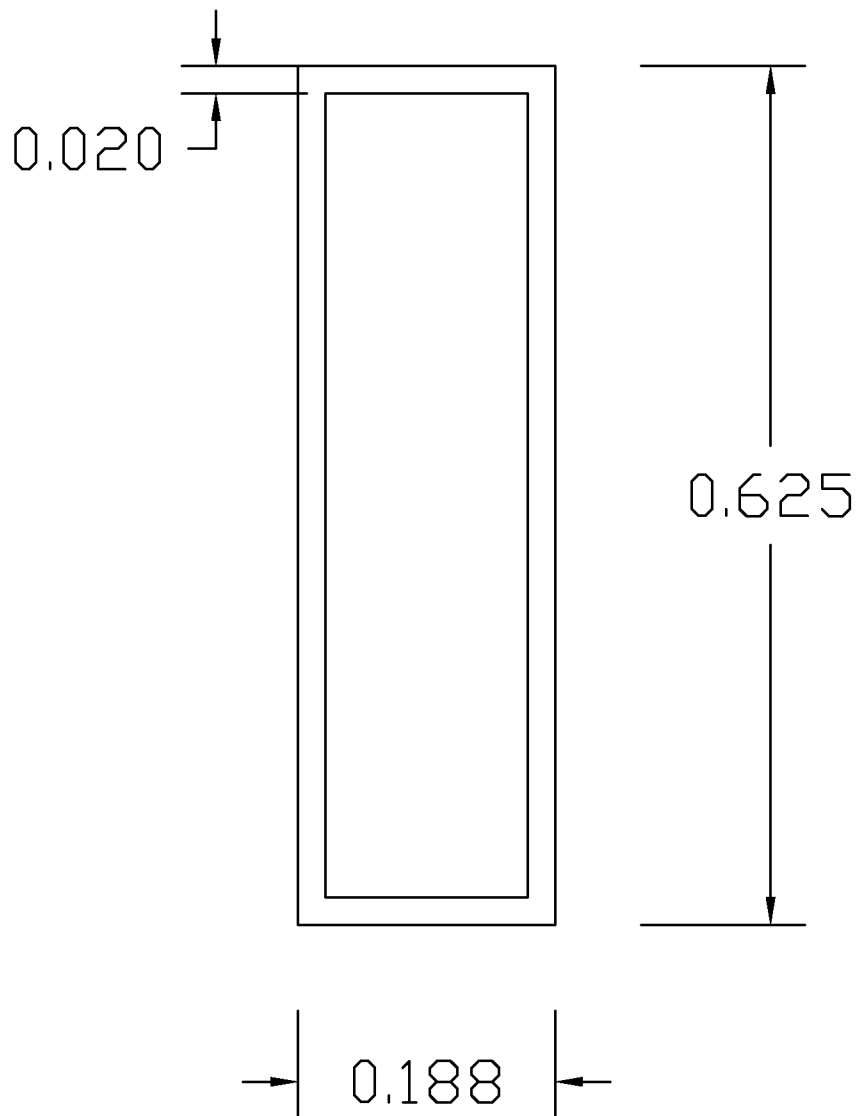
Werner Lichtenberger

Technical Service

TruSeal Technologies

905 522 9058

888 257 7605 voicemail



Material: Painted Aluminum
All Dimensions are in Inches

Standard Rectangular Internal Grid