

**NFRC U-FACTOR, SHGC / VT,
CONDENSATION RESISTANCE
COMPUTER SIMULATION REPORT**

Rendered to:

EARTHWISE GROUP, L.L.C.

**SERIES/MODEL: 143.095 SS
145.095 SS**

Baseline Product for Validation Testing

Series Model: **143.095 SS**

Unit Size: Width: 59.00" Height: 47.25"

Simulated U-Factor: 0.284

Glazing Information

<i>Layer 1:</i>	SS Guardian RLE 71/38 (e=0.027,#2)
<i>Gap 1:</i>	0.563" Super Spacer (ZF-S) - 90% Argon Fill
<i>Layer 2:</i>	SS Guardian RLE 71/38 (e=0.027,#4)
<i>Gap 2:</i>	
<i>Layer 3:</i>	

Reinforcement Option Description

<i>Location</i>	<i>Material</i>
Lock Stile, Keeper Stile	Aluminum

**Report No.: 54090.06-116-45
Report Date: 04/01/05
Expiration Date: 03/30/09**

**NFRC U-FACTOR, SHGC / VT, CONDENSATION RESISTANCE
COMPUTER SIMULATION REPORT**

Rendered to:

EARTHWISE GROUP, L.L.C.
185 Union Avenue
Providence, Rhode Island 02909

Report No.: 54090.06-116-45
Simulation Date: 03/30/05
Report Date: 04/01/05
Expiration Date: 03/30/09

Project Summary: Architectural Testing, Inc. (ATI) was contracted to perform U-Factor, Solar Heat Gain Coefficient, Visible Transmittance, and Condensation Resistance* computer simulations in accordance with the National Fenestration Rating Council (NFRC). The products were evaluated in full compliance with NFRC requirements to the standards listed

**NFRC's Condensation Resistance rating is NOT equivalent to a Condensation Resistance Factor (CRF) determined in accordance with AAMA 1503.*

Standards:

NFRC 100-2004: *Procedure for Determining Fenestration Product U-Factors*
NFRC 200-2004: *Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence*
NFRC 500-2004: *Procedure for Determining Fenestration Product Condensation Resistance Values*

Software:

Frame and Edge Modeling: THERM 5.2.14
Center-of-Glass Modeling: WINDOW 5.2.17
Total Product Calculations: WINDOW 5.2.17
Spectral Data Library: 14.1

Simulation Specimen Description:

Series/Model:	143.095 SS	145.095 SS
Type:	Horizontal Slider (Single)	
Frame Material:	Vinyl w/reinforcing - interlock only (VI)	
Sash Material:	Vinyl w/reinforcing - vertical members only (VV)	
Width:	1200 mm	
Height:	1500 mm	

Technical Interpretations:

U-factor: None
SHGC: None

Modeling Assumptions:

- U-factor:**
1. The 143.095 SS and the 145.095 SS are individual product lines and can be grouped within the same validation matrix according to NFRC 100-2001 Section 1.4.1.
 2. The 3/16" X 9/16", 3/16" X 5/8", 3/16" X 3/4", 1/4" X 5/8" Rectangular Muntins, 5.5mm X 18mm, 8mm X 18mm, 8mm X 25mm, 0.313" X 0.725" Contour Muntins, 7/16" X 3/8" Square Muntin, 5.9mm X 7.95mm Brass Caming Muntins were grouped for simulation purposes. The 7/16" X 3/8" Square Muntin was the group leader.
 3. Tempered glass is simulated as clear annealed per NFRC 100-2004.

- SHGC:**
1. Tempered glass is simulated as clear annealed per NFRC 200-2004.

Specialty Products Table: The specialty products method allow the manufacturer to determine the overall product SHGC and VT for any glazing option. The center of glass SHGC and/or VT must be determined using WINDOW 5.2. The method gives overall product SHGC and VT indexed on center of glass properties.

143.095 SS	No Dividers	Dividers < 1"	Dividers >= 1"
SHGC ₀	0.004	0.007	0.009
SHGC ₁	0.789	0.707	0.630
VT ₀	0.000	0.000	0.000
VT ₁	0.785	0.700	0.620

145.095 SS	No Dividers	Dividers < 1"	Dividers >= 1"
SHGC ₀	0.004	0.007	0.010
SHGC ₁	0.781	0.700	0.623
VT ₀	0.000	0.000	0.000
VT ₁	0.777	0.693	0.613

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

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

Appendices: The following appendices contain material required by NFRC 100-2004, NFRC 200-2004, and NFRC 500-2004.

- A. Drawings and Bills of Material used in simulation

Spacer Option Description

<i>Spacer Type</i>	<i>Sealant</i>		<i>Dessicant</i>
	<i>Primary</i>	<i>Secondary</i>	
PPG Intercept Spacer	Butyl Rubber	Butyl Rubber	Yes
Edgetech Super Spacer	Butyl Rubber	None	No
TruSeal DuraSeal Spacer	Butyl Rubber	Butyl Rubber	No
Aluminum Swiggle Spacer	Butyl Rubber	Butyl Rubber	No
Cardinal XL Edge Spacer	Silicone	PIB	Yes

Grid Option Description

<i>Grid Size</i>	<i>Grid Type</i>	<i>Grid Pattern</i>
3/16" X 9/16"	Allmetal Rectangular Muntin	3H x 2V
3/16" X 5/8"	Allmetal Rectangular Muntin	3H x 2V
3/16" X 3/4"	Allmetal Rectangular Muntin	3H x 2V
1/4" X 5/8"	Allmetal Rectangular Muntin	3H x 2V
5.5mm X 18mm	Allmetal Contour Muntin	3H x 2V
8mm X 18mm	Allmetal Contour Muntin	3H x 2V
8mm X 25mm	Allmetal Contour Muntin	3H x 2V
0.313" X 0.725"	Allmetal Contour Muntin	3H x 2V
7/16" X 3/8"	Square Muntin	3H x 2V
5.9mm X 7.95mm	Brass Caming Muntin	3H x 2V

Reinforcement Option Description

<i>Location</i>	<i>Material</i>
Lock Stile, Keeper Stile, Jamb Stile	Aluminum

Gas Filling Technique Description

<i>Fill Type</i>	<i>Method</i>
90% Argon	Single Probe
95% Argon	Dual Probe
90% Krypton	Dual Probe

Edge-of-Glass Construction - Fixed Sash

<i>Interior Condition</i>	PVC glazing bead with flexible vinyl fin against glass
<i>Exterior Condition</i>	Foam tape between sash leg and glass

Edge-of-Glass Construction - Operable Sash

<i>Interior Condition</i>	Foam tape between sash leg and glass
<i>Exterior Condition</i>	PVC glazing bead with flexible vinyl fin against glass

Weatherstripping

<i>Type</i>	<i>Qty.</i>	<i>Location</i>
Finpile	1 row	Sill, Bottom Rail, Head, Top Rail, Lock Rail, Jamb, Jamb Stile

Finish

<i>Interior Condition</i>	White PVC
<i>Exterior Condition</i>	White PVC

Hardware *(If modeling is required, continuous items are listed below)*

Type	Qty.	Location
None		

Sealing Rules *(To prevent air infiltration)*

Tape was applied to all interior sash crack locations.
--

U-Factor / CR
143.095 SS

		PPG Intercept Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
1	Clear / Clear - SS,DS - 3/4" IG	0.48	43	0.49	43
2	SS Clear / DS Clear - 3/4" IG	0.48	43	0.49	43
3	043 / Clear - SS,DS - 3/4" IG	0.34	54	0.36	54
4	043 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.31	57	0.32	57
5	041 / Clear w/ 90% Argon - DS - 3/4" IG	0.30	56	0.33	56
6	027 / Clear - SS,DS - 3/4" IG	0.34	54	0.35	54
7	027 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	57	0.32	57

		Super Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
8	Clear / Clear - SS,DS - 3/4" IG	0.47	45	0.48	45
9	DS Clear / SS Clear - 3/4" IG	0.47	45	0.48	45
10	DS Clear / SS Clear w/ 90% Argon - 3/4" IG	0.45	46	0.46	46
11	154 / Clear - DS - 3/4" IG	0.36	53	0.38	53
12	154 / Clear w/ 95% Argon- DS - 3/4" IG	0.32	56	0.35	56
13	043 / Clear - SS,DS - 3/4" IG	0.33	56	0.35	56
14	043 / Clear w/ 90% Argon- SS,DS - 3/4" IG	0.30	60	0.32	60
15	041 / Clear - SS,DS - 3/4" IG	0.33	56	0.35	56
16	041 / Clear w/ 90% Argon- SS,DS - 3/4" IG	0.30	60	0.31	60
17	027 / Clear - SS,DS - 3/4" IG	0.33	57	0.35	57
18	027 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.29	60	0.31	60
19	027 / 027 w/ 90% Argon - SS,DS - 3/4" IG	0.29	61	0.30	61

U-Factor / CR
143.095 SS

		<i>Duraseal Spacer</i>			
		<i>No Grids</i>		<i>Grids</i>	
	Option Description	U-Factor	CR	U-Factor	CR
20	Clear / Clear - SS,DS - 3/4" IG	0.47	44	0.49	44
21	044 / Clear - SS,DS - 3/4" IG	0.34	56	0.35	56
22	044 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	59	0.32	59
23	041 / Clear - SS,DS - 3/4" IG	0.34	56	0.35	56
24	041 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	59	0.32	59
25	027 / Clear w/ 90% Argon - DS - 3/4" IG	0.29	59	0.32	59

		<i>Aluminum Swiggle Spacer</i>			
		<i>No Grids</i>		<i>Grids</i>	
	Option Description	U-Factor	CR	U-Factor	CR
26	Clear / Clear - SS,DS - 3/4" IG	0.47	44	0.49	44
27	041 / Clear - SS,DS - 3/4" IG	0.34	55	0.36	55
28	041 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	58	0.32	58
29	027 / Clear - SS,DS - 3/4" IG	0.33	55	0.33	55
30	027 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	58	0.31	58

U-Factor / CR
143.095 SS

		Cardinal XL Edge Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
31	Clear / Clear - DS - 3/4" IG	0.47	43	0.49	43
32	041 / Clear w/ 90% Argon - DS - 3/4" IG	0.30	57	0.32	57

		Triple Glazed Super Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
33	Clear / Clear / Clear - SS - 3/4" IG	0.40	51	-	-
34	027 / Clear / Clear - SS - 3/4" IG	0.34	56	-	-
35	027 / Clear / Clear w/ 90% Argon - SS - 3/4" IG	0.30	60	-	-
36	027 / 027 / Clear - SS - 3/4" IG	0.31	59	-	-
37	027 / 027 / Clear w/ 90% Argon - SS - 3/4" IG	0.26	63	-	-

Notes :

1. All options available with bronze and grey tints on exterior surface.
2. "5m" stands for 3/16" glass thickness
3. Low-E's used:
 - 0.043 = PPG Solarban 60
 - 0.041 = Cardinal E172
 - 0.027 = Guardian RLE 71/38
 - 0.154 = LOF Advantage
 - 0.044 = Guardian PPII

U-Factor / CR
145.095 SS

		PPG Intercept Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
1	Clear / Clear - SS,DS - 3/4" IG	0.48	43	0.49	43
2	SS Clear / DS Clear - 3/4" IG	0.48	43	0.49	43
3	043 / Clear - SS,DS - 3/4" IG	0.34	53	0.36	53
4	043 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.31	56	0.33	56
5	041 / Clear w/ 90% Argon - DS - 3/4" IG	0.31	55	0.33	55
6	027 / Clear - SS,DS - 3/4" IG	0.34	54	0.36	54
7	027 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.31	57	0.32	57

		Super Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
8	Clear / Clear - SS,DS - 3/4" IG	0.47	45	0.48	45
9	DS Clear / SS Clear - 3/4" IG	0.47	45	0.49	45
10	DS Clear / SS Clear w/ 90% Argon - 3/4" IG	0.45	46	0.47	46
11	154 / Clear - DS - 3/4" IG	0.36	53	0.39	53
12	154 / Clear w/ 95% Argon- DS - 3/4" IG	0.33	56	0.35	56
13	043 / Clear - SS,DS - 3/4" IG	0.34	56	0.35	56
14	043 / Clear w/ 90% Argon- SS,DS - 3/4" IG	0.30	59	0.32	59
15	041 / Clear - SS,DS - 3/4" IG	0.34	56	0.35	56
16	041 / Clear w/ 90% Argon- SS,DS - 3/4" IG	0.30	59	0.32	59
17	027 / Clear - SS,DS - 3/4" IG	0.33	56	0.35	56
18	027 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	59	0.31	59
19	027 / 027 w/ 90% Argon - SS,DS - 3/4" IG	0.29	60	0.31	60

U-Factor / CR
145.095 SS

		<i>Duraseal Spacer</i>			
		<i>No Grids</i>		<i>Grids</i>	
	Option Description	U-Factor	CR	U-Factor	CR
20	Clear / Clear - SS,DS - 3/4" IG	0.48	44	0.49	44
21	044 / Clear - SS,DS - 3/4" IG	0.34	55	0.36	55
22	044 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	58	0.32	58
23	041 / Clear - SS,DS - 3/4" IG	0.34	55	0.36	55
24	041 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	58	0.32	58
25	027 / Clear w/ 90% Argon - DS - 3/4" IG	0.30	58	0.32	58

		<i>Aluminum Swiggle Spacer</i>			
		<i>No Grids</i>		<i>Grids</i>	
	Option Description	U-Factor	CR	U-Factor	CR
26	Clear / Clear - SS,DS - 3/4" IG	0.48	44	0.49	44
27	041 / Clear - SS,DS - 3/4" IG	0.34	54	0.36	54
28	041 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.31	57	0.32	57
29	027 / Clear - SS,DS - 3/4" IG	0.34	54	0.34	54
30	027 / Clear w/ 90% Argon - SS,DS - 3/4" IG	0.30	58	0.31	58

U-Factor / CR
145.095 SS

		Cardinal XL Edge Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
31	Clear / Clear - DS - 3/4" IG	0.47	43	0.49	43
32	041 / Clear w/ 90% Argon - DS - 3/4" IG	0.30	57	0.33	57

		Triple Glazed Super Spacer			
		No Grids		Grids	
	Option Description	U-Factor	CR	U-Factor	CR
33	Clear / Clear / Clear - SS - 3/4" IG	0.40	51	-	-
34	027 / Clear / Clear - SS - 3/4" IG	0.35	56	-	-
35	027 / Clear / Clear w/ 90% Argon - SS - 3/4" IG	0.31	60	-	-
36	027 / 027 / Clear - SS - 3/4" IG	0.31	59	-	-
37	027 / 027 / Clear w/ 90% Argon - SS - 3/4" IG	0.27	63	-	-

Notes :

1. All options available with bronze and grey tints on exterior surface.
2. "5m" stands for 3/16" glass thickness
3. Low-E's used:
 - 0.043 = PPG Solarban 60
 - 0.041 = Cardinal E172
 - 0.027 = Guardian RLE 71/38
 - 0.154 = LOF Advantage
 - 0.044 = Guardian PPII

		SHGC			VT		
Option Description		No Grids	√1	∧1	No Grids	√1	∧1
1	Clear / Clear - SS,DS	0.62	0.56	0.50	0.64	0.57	0.51
2	Solar Bronze / Clear - SS,DS	0.50	0.45	0.40	0.48	0.43	0.38
3	Solar Gray / Clear - SS,DS	0.46	0.41	0.37	0.43	0.38	0.34
4	043 / Clear - SS,DS	0.31	0.28	0.25	0.56	0.50	0.44
5	Clear / 043 - SS,DS	0.38	0.34	0.30	0.56	0.50	0.44
6	Solar Bronze / 043 - SS,DS	0.31	0.28	0.25	0.41	0.37	0.33
7	Solar Gray / 043 - SS,DS	0.29	0.26	0.23	0.37	0.33	0.29
8	041 / Clear - SS,DS	0.33	0.30	0.27	0.57	0.50	0.45
9	Clear / 041 - SS,DS	0.39	0.35	0.32	0.57	0.50	0.45
10	Solar Bronze / 041 - SS,DS	0.31	0.28	0.25	0.42	0.37	0.33
11	Solar Gray / 041 - SS,DS	0.29	0.26	0.24	0.38	0.34	0.30
12	027 / Clear - SS,DS	0.31	0.28	0.25	0.56	0.50	0.44
13	Clear / 027 - SS,DS	0.38	0.34	0.31	0.56	0.50	0.44
14	Solar Bronze - 027 - SS,DS	0.30	0.27	0.25	0.41	0.37	0.33
15	Solar Gray / 027 - SS,DS	0.28	0.26	0.23	0.37	0.33	0.29
16	154 / Clear - SS,DS	0.51	0.46	0.41	0.59	0.52	0.46
17	Clear / 154 - SS,DS	0.56	0.51	0.45	0.59	0.52	0.46
18	Solar Bronze / 154 - SS,DS	0.45	0.40	0.36	0.44	0.39	0.34
19	Solar Gray / 154 - SS,DS	0.41	0.37	0.33	0.39	0.35	0.31
20	044 / Clear - SS,DS	0.33	0.29	0.26	0.54	0.48	0.43
21	Clear / 044 - SS,DS	0.38	0.34	0.30	0.54	0.48	0.43
22	Solar Bronze - 044 - SS,DS	0.30	0.27	0.25	0.40	0.36	0.32
23	Solar Gray / 044 - SS,DS	0.28	0.26	0.23	0.36	0.32	0.29
24	Clear / Clear / Clear - SS	0.57	0.51	0.45	0.60	0.53	0.47
25	027 / Clear / Clear - SS	0.29	0.26	0.24	0.51	0.46	0.41
26	027 / 027 / Clear - SS	0.25	0.23	0.21	0.44	0.39	0.35

Notes :

1. "5m" stands for 3/16" glass thickness
3. Low-E's used:
 - 0.043 = PPG Solarban 60
 - 0.041 = Cardinal E172
 - 0.027 = Guardian RLE 71/38
 - 0.154 = LOF Advantage
 - 0.044 = Guardian PPII

		SHGC			VT		
Option Description		No Grids	√1	∧1	No Grids	√1	∧1
1	Clear / Clear - SS,DS	0.62	0.55	0.49	0.64	0.57	0.50
2	Solar Bronze / Clear - SS,DS	0.49	0.44	0.39	0.47	0.42	0.37
3	Solar Gray / Clear - SS,DS	0.46	0.41	0.37	0.43	0.38	0.34
4	043 / Clear - SS,DS	0.31	0.28	0.25	0.55	0.49	0.43
5	Clear / 043 - SS,DS	0.37	0.34	0.30	0.55	0.49	0.43
6	Solar Bronze / 043 - SS,DS	0.30	0.27	0.25	0.41	0.36	0.32
7	Solar Gray / 043 - SS,DS	0.28	0.26	0.23	0.37	0.33	0.29
8	041 / Clear - SS,DS	0.33	0.29	0.26	0.56	0.50	0.44
9	Clear / 041 - SS,DS	0.39	0.35	0.31	0.56	0.50	0.44
10	Solar Bronze / 041 - SS,DS	0.31	0.28	0.25	0.41	0.37	0.33
11	Solar Gray / 041 - SS,DS	0.29	0.26	0.24	0.37	0.33	0.29
12	027 / Clear - SS,DS	0.31	0.28	0.25	0.55	0.49	0.44
13	Clear / 027 - SS,DS	0.38	0.34	0.30	0.55	0.49	0.44
14	Solar Bronze - 027 - SS,DS	0.30	0.27	0.24	0.41	0.36	0.32
15	Solar Gray / 027 - SS,DS	0.28	0.25	0.23	0.37	0.33	0.29
16	154 / Clear - SS,DS	0.51	0.46	0.41	0.58	0.52	0.46
17	Clear / 154 - SS,DS	0.56	0.50	0.45	0.58	0.52	0.46
18	Solar Bronze / 154 - SS,DS	0.44	0.40	0.36	0.43	0.38	0.34
19	Solar Gray / 154 - SS,DS	0.41	0.37	0.33	0.39	0.35	0.31
20	044 / Clear - SS,DS	0.32	0.29	0.26	0.54	0.48	0.42
21	Clear / 044 - SS,DS	0.37	0.34	0.30	0.54	0.48	0.42
22	Solar Bronze - 044 - SS,DS	0.30	0.27	0.24	0.40	0.35	0.31
23	Solar Gray / 044 - SS,DS	0.28	0.25	0.23	0.36	0.32	0.28
24	Clear / Clear / Clear - SS	0.56	0.50	0.45	0.59	0.53	0.47
25	027 / Clear / Clear - SS	0.29	0.26	0.24	0.51	0.45	0.40
26	027 / 027 / Clear - SS	0.25	0.23	0.20	0.44	0.39	0.35

Notes :

1. "5m" stands for 3/16" glass thickness
3. Low-E's used:
 - 0.043 = PPG Solarban 60
 - 0.041 = Cardinal E172
 - 0.027 = Guardian RLE 71/38
 - 0.154 = LOF Advantage
 - 0.044 = Guardian PPII

This report is reissued in the name of Earthwise Group, L.L.C. through written authorization of Dayton Technologies to whom the original report was rendered. The original Dayton Report No. is 54090.01-116-45.

This simulation method does not include procedures to determine the Condensation Resistance due to either air movement through the specimen or solar radiation effects. As a consequence, the Condensation Resistance results obtained do not reflect performance which may be expected from field installations because they do not account for solar radiation, air leakage effects, and the thermal bridge effects that may occur due to the specific design and construction of the fenestration system opening. Therefore, it should be recognized that the Condensation Resistance results obtained from this simulation method are for controlled laboratory conditions and should only be used for fenestration product comparisons and as input to condensation resistance performance analyses, which also include solar, air leakage and thermal bridge effects.

Ratings included in this report are for submittal to an NFRC-licensed IA for certification purposes and are not meant to be used for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) are to be used for labeling purposes.

Detailed drawings, simulation data disks, and a copy of this report will be retained by ATI for a period of four years. The above results are the exclusive property of the client so named herein and are applicable to the sample simulated. ATI is an NFRC accredited simulation laboratory and all simulations were conducted in full compliance with NFRC approved procedures and specifications. The NFRC procedure requires that the computational results be verified through actual test results. This report does not constitute an opinion or endorsement by this laboratory. This report may not be reproduced except in full without the approval of ATI.

For ARCHITECTURAL TESTING, INC.:

SIMULATED BY:

REVIEWED BY:

Eric Leitner
Simulation Technician

Michael J. Thoman
Director - Simulations & Thermal Testing
Simulator In Responsible Charge

EL:ssr
54090.06-116-45

Attachments (pages):
Appendix A: Drawings and Bills of Material (28)

Revision Log

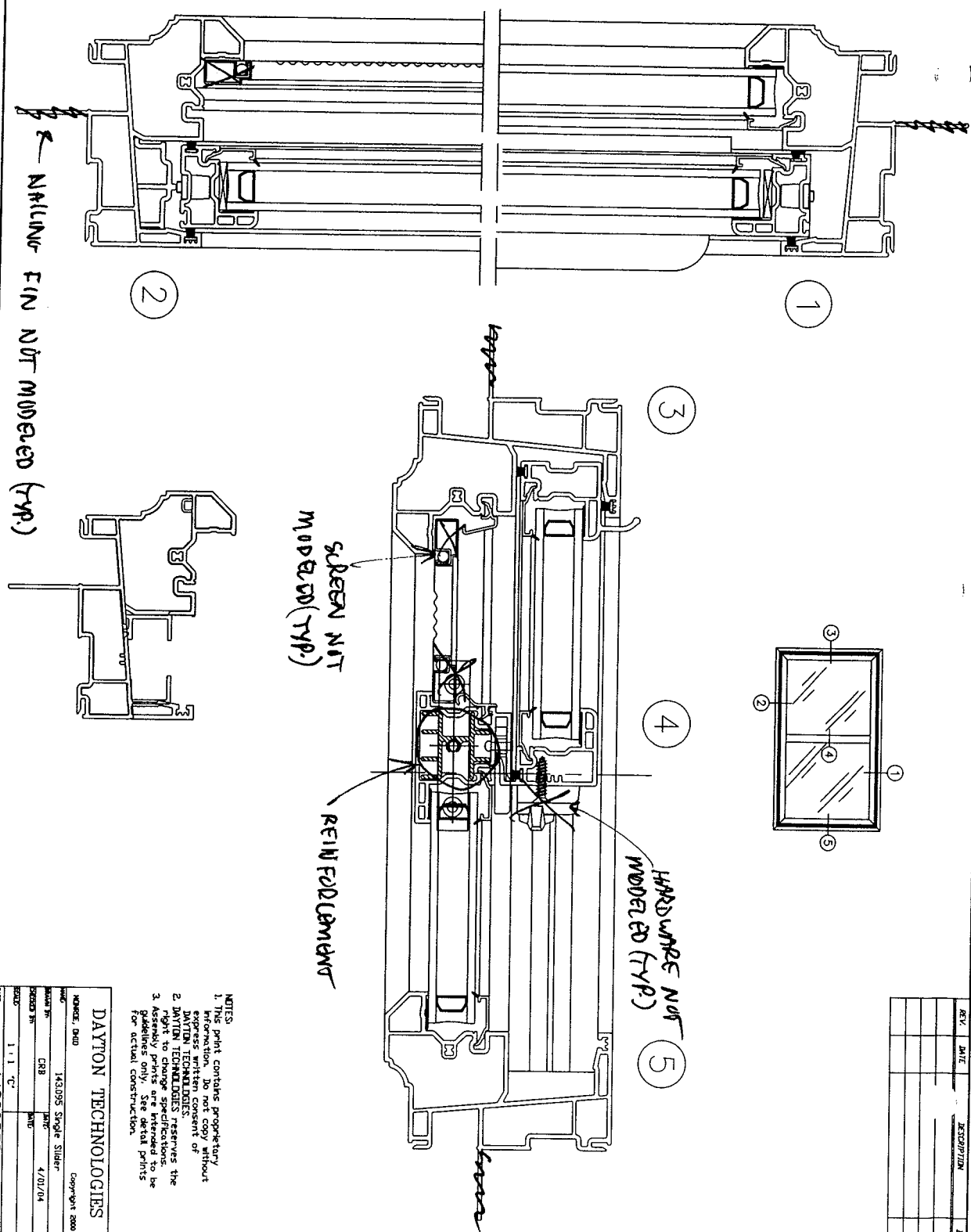
Rev. #	Date	Page(s)	Revision(s)
0	4/1/2005	All	Reiussse .01 report to Earthwise Group, L.L.C. with only their glazing options



All drawings and Bills of Material used in simulating this product are enclosed in this Appendix.

APPENDIX A

REV.	DATE	DESCRIPTION	BY



- NOTES:
1. This print contains proprietary information. Do not copy without permission from the licensor or DAYTON TECHNOLOGIES.
 2. DAYTON TECHNOLOGIES reserves the right to change specifications.
 3. Assembly prints are intended to be placeholders only. See detail prints for actual construction.

DAYTON TECHNOLOGIES			
MODEL: 0410	1430S Single Slider	Copyright 2000	
DATE: 08/04	REV: 01	4/01/04	
PROJECT: 1430S	1:1	1"	
1430955S			



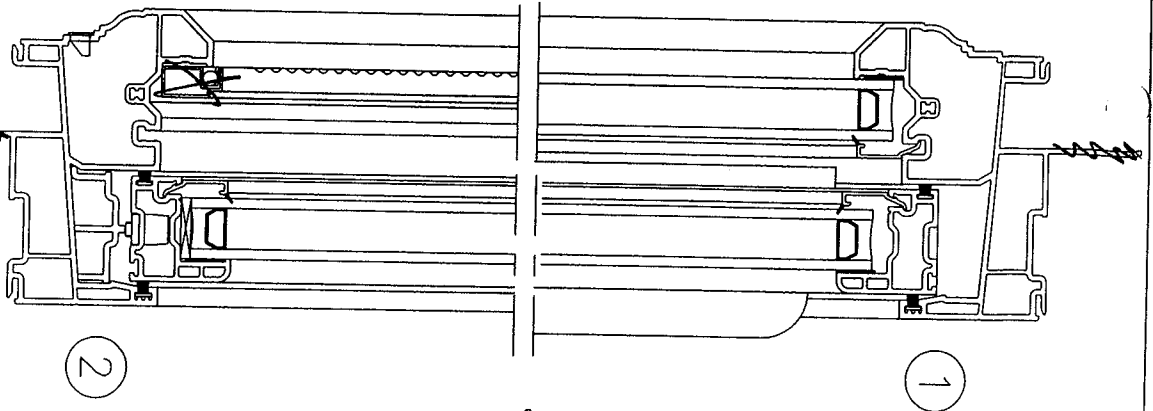
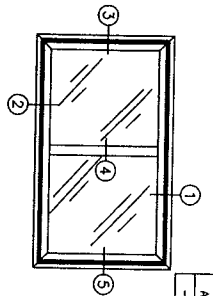
Architectural Testing

Test sample complies with these details.
Deviations are noted.

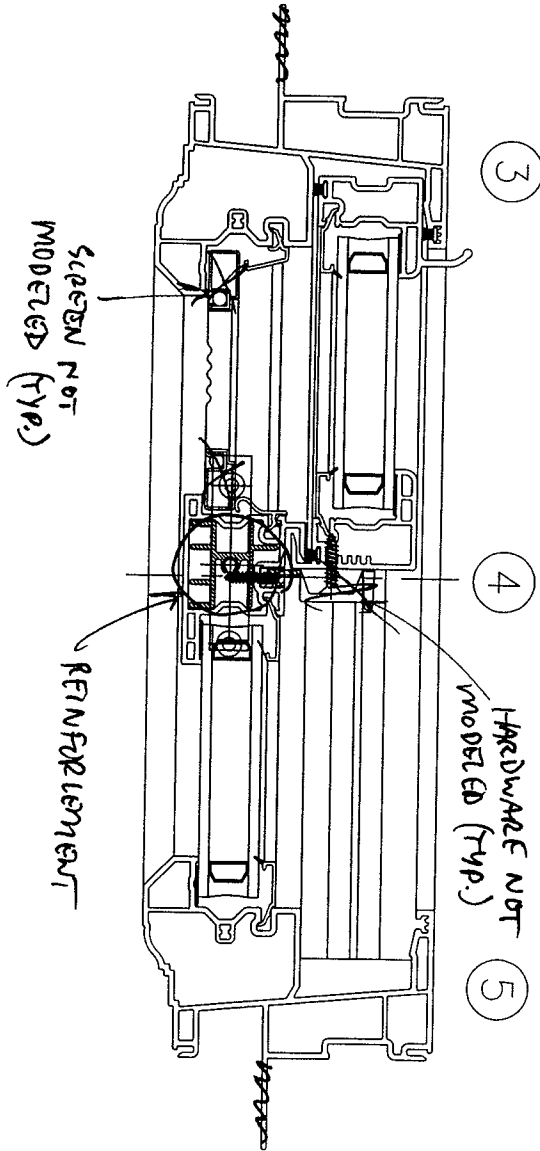
Report# 54090
Date 3/30/05 Tech CR

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

REV		REVISION		DATE		APPROVED	
REV	STATUS	REV.	DESCRIPTION	DATE			
A	SH						
1							
-							



← NAILING FOR NOT
MODELED (TYP.)



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. DAYTON TECHNOLOGIES RESERVES THE RIGHT TO CHANGE THIS DRAWING AND ANY ASSOCIATED DOCUMENTS.

UNLESS OTHERWISE SPECIFIED		DESIGN BY:		DATE:	
DIM ARE IN INCHES		CH		03/06/27	
2 PL ± .01, 3 PL ± .005		DRAWN BY:		H.S.	
INTERFERE DIM AND TOL PER		DATE:		03/04/23	
THIRD ANGLE PROJECTION		DATE:			
		FILENAME:		145095SS	
		pd/assembly/145095SSM		145095SS	
		SCALE: 1:1 (AS SHOWN)		SHEET 1 OF 1	

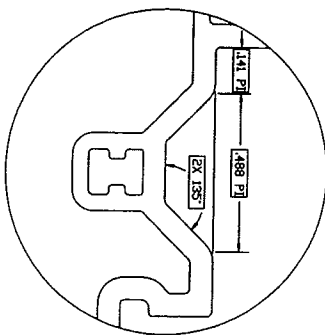
LAYOUT DRAWING



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech ESL



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.

UNLESS OTHERWISE SPECIFIED		DESIGN BY: DB	
DIM ARE IN INCHES		DATE: 09/02/12	
2 PL ± .01 3 PL ± .005		PROJECT BY: J.H	
INTERP. DIM AND TOL PER		DATE: 02/06/17	
ASME Y14.5M - 1994		DWG NO:	
THIRD ANGLE PROJECTION		DATE:	
		TITLE BLOCK	
		HSEI/COAL PYS/ 6661/1000661 SHG4	
 Dayton Engineering & Tool 2650 KENTON AVE DAYTON, OH 45424 (937) 233-8779 FAX (937) 233-8778 WWW.DAYTON-ENGINEERING.COM		SCALE: 1:1 DES: JTS SHEET: 3	
MAIN FRAME-SS		REV: 1000661 SHG3 A	



Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech CR

143.000 SS FRAME - BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
1	HEAD	1	P8684 ✓	P8684F01	A
2	SILL	1	P8684	P8684F02	A
3	JAMB	2	P8684	P8684F03	A
4	FIXED MEETING RAIL	1	P8511 ✓	P8511-F-10	A
5	HORIZONTAL GLAZING BEAD	2	P8127 ✓	P8127F01	A
6	VERTICAL GLAZING BEAD	2	P8127	P8127F01	A
7	SLIDER TRACK INSERT	1	P8466 ✓	P8466F01	A
8	SMALL SCREEN RETAINER	1	P8263	P8263F01	A
9	SCREEN RETAINER	1	P8268	P8268F01	A
10	OPTIONAL: MEETING RAIL GASKET	2 EACH	G-A302-L1G153 / G-A302-L1G154		CC
11	FIXED MEETING RAIL INSERT	1	6189 ✓		EEE, 000
12	FIXED MEETING RAIL ANCHOR	2	#12512 or #79543 (includes gasket)		D
13	CENTER FIN WEATHERSTRIPPING	AS REQD	.290 HT. x .187 BK.		F, I
14	3/4" INSULATED GLASS	1	SBC2150		R
15	GLAZING COMPOUND	AS REQD	1/8" x 3/4"		T
16	SETTING BLOCKS (Refer to IG Supplier Guideline)	AS REQD	9946		W
17	INSTALLATION PLUGS (Optional)	4	13008		F, I
18	KEEPER	1 or 2	1/8" DIA. x .315 GRIP		D
19	KEEPER RIVET	2 or 4	97-03-00-00		B
20	WEEP COVER	2	3/8 x 3/4		RRR
21	SCREEN ASSEMBLY	1	#8 x 3" PPH		GGG
22	INSTALLATION SCREWS (R&R)	4	#8 x 1.000 PPH		B, Z
23	FIXED MEETING RAIL ANCHOR SCREW	4	#8 X 1 1/2" PPH		B
24	MEETING RAIL INSERT SCREWS	2			Z
Rev	Date	Description	By	DAYTON TECHNOLOGIES	
A	10/7/2003	ADDED HO PRODUCTS GASKET INFO	CRB	NAME: MONROE, OH DWN BY: 143.000SS CHKD BY: CRB DWG NO: 143000SS.XIS COPYRIGHT 2000 8/10/2000	



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech EBL

145.000 SS FRAME - BILL OF MATERIALS - NC					SWEEPLOCK	
ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE	
1	HEAD	1	10008661 ✓	10008661F01	A	
2	SILL	1	10008661	10008661F02	A	
3	JAMB	2	10008661	10008661F03	A	
4	FIXED MEETING RAIL	1	10008515 ✓	10008515F02	A	
5						
6	HORIZONTAL GLAZING BEAD	2	10008127 ✓	P8127F01	A	
7	VERTICAL GLAZING BEAD	2	10008127	P8127F01	A	
8	SLIDER TRACK INSERT	1	10008466	P8466F01	A	
9	SCREEN RETAINER	1	P8263	STRAIGHT CUT	A	
10	SCREEN RETAINER	1	P8268	STRAIGHT CUT	A	
11						
12						
13	FIXED MEETING RAIL INSERT	1	10300057		000	
14	FIXED MEETING RAIL ANCHOR	2	1539		VVV	
15	CENTER FIN WEATHERSTRIPPING	AS REQ'D	.290 HT. x .187 BK.		F.I	
16						
17	3/4" INSULATED GLASS	1			R	
18	GLAZING COMPOUND	AS REQ'D	SBC2150		T	
19	SETTING BLOCKS (Refer to IG Supplier Guidelitr	AS REQ'D	1/8" x 3/4"		W	
20	INSTALLATION PLUGS (Optional)	4	9946		F.I	
21	KEEPER	1 or 2	13008		D	
22	KEEPER RIVET	2 or 4	1/8" DIA. x .315 GRIP		B	
23	WEEP COVER	2	97-03-00-00		RRR	
24						
25	SCREEN ASSEMBLY	1	3/8 x 3/4		GGG	
26	INSTALLATION SCREWS (R&R)	4	#8 x 3" PPH		B, Z	
27	FIXED MEETING RAIL ANCHOR SCREW	4	#8 x 1.000 PFH		B	
28	MEETING RAIL INSERT SCREWS	2	#8 X 1 1/2" PPH		Z	
Rev	Date	By	DAYTON TECHNOLOGIES			
			MONROE, OH			
			NAME: 145.000SS	COPYRIGHT 2003		
			DWN BY: CRB	10/1/2003		
			CHKD BY:			
			DWG NO:	145000SS.XLS		



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech ESL

000.095 SS SASH - BILL OF MATERIALS (Mastic)

ITEM NO.	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO	SOURCE
41	TOP RAIL	2	P8842 ✓	P8852-F-04	A
42	LOCK RAIL	2	P8845 ✓	P8855-F-07	A
43	PULL STILE	2	P8840 ✓	P8850-F-02	A
44	BOTTOM RAIL (Ashland Roller)	2	P8842	P8852-F-08	A
45					
46	HORIZONTAL GLAZING BEAD	4	P8127 ✓	P8127-F-01	A
47	VERTICAL GLAZING BEAD	4	P8127	P8127-F-01	A
48					
49	3/4" INSULATED GLASS	2	1/8" x 3/4"		
50	GLAZING COMPOUND	AS REQ'D			
51	SETTING BLOCKS (Refer to IG Supplier Guidelin	AS REQ'D			
52					
53	CENTER FIN WEATHERSTRIPPING	AS REQ'D	290 HT. x .187 BK.		
54	SASH REINFORCEMENT	AS REQ'D	A6202 ✓	A6202-F-01	EEE
55					
56	SASH ROLLER	2 OR 4	79529		D
57	LOCK /CAM	2 OR 4	L20010001R01		D
58					
59	SCREW FOR LOCK ASSEMBLY	4 OR 8	#8 x 3/4 PAINTED PFH		
60					
61					
62					
63					
64					
65					
66					

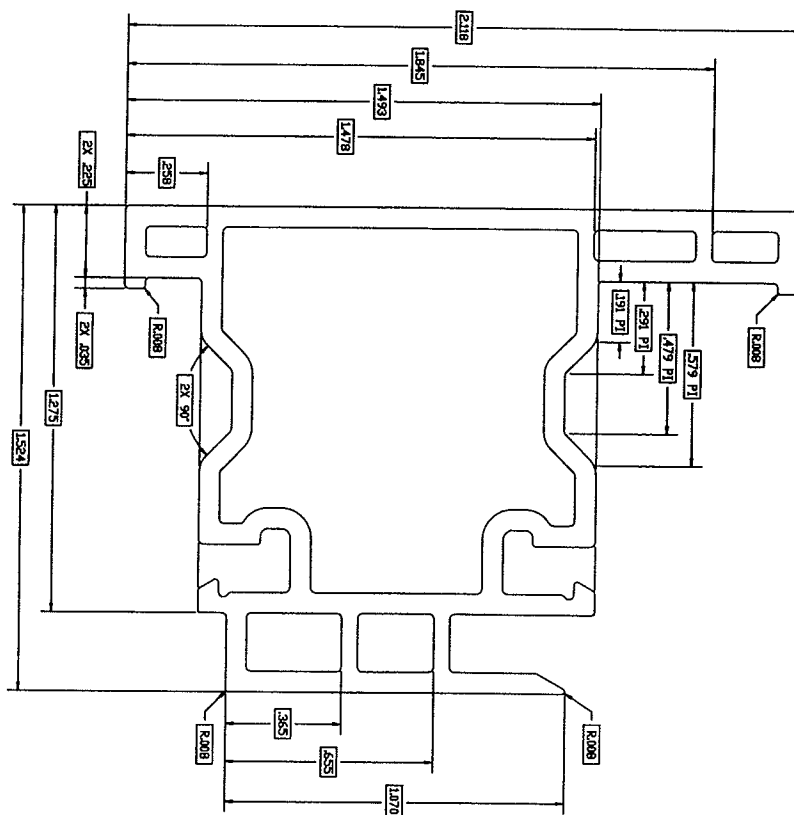
DAYTON TECHNOLOGIES			
NAME:	MONROE, OH	COPYRIGHT 2004	
DWN BY:	000.095SS Mastic		
CHKD BY:	CRB	8/23/2000	
DWG NO:	000095SS.xls		



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54696
Date 3/30/05 Tech ERL



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. DO NOT COPY OR DISCLOSE THIS INFORMATION WITHOUT THE EXPRESS WRITTEN CONSENT OF JAYCOR TECHNOLOGIES.					
TO CHARGE THIS DRAWING AND ANY ASSOCIATED DOCUMENTS:					
UNLESS OTHERWISE SPECIFIED					
DIM ARE IN INCHES					
2 PL. & AT 3 PL. & FMS					
INTERPENT DIM AND TIL PER ASME Y14.5M - 1994					
THIRD ANGLE PROJECTION					
DESIGN BY	JTC				
DATE	8/20/07				
DRAWN BY	LH				
DATE	02/06/08				
DATE	04/07/08				
REV:					
C	DWG NO	1000851L SH3		RE	-
S	SCALE	1"=1'		PAGE	3
JTC		FMS/PJT		380 SHEET	



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 59090
Date 3/30/05 Tech CR

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. DO NOT COPY OR DISCLOSE THIS INFORMATION WITHOUT THE EXPRESS WRITTEN CONSENT OF DAYTECH TECHNOLOGIES. DAYTECH TECHNOLOGIES RESERVES THE RIGHT TO CHANGE THIS BEHAVIOR AND ANY ASSOCIATED DOCUMENTS.

UNLESS OTHERWISE SPECIFIED
DIM ARE IN INCHES
TOL. ON ANGLE $\pm 1^\circ$
2 PL. $\pm .01$ 3 PL. $\pm .005$
INTERPRET DIM AND TOL PER
ASME Y14.5M - 1994

THIRD ANGLE PROJECTION



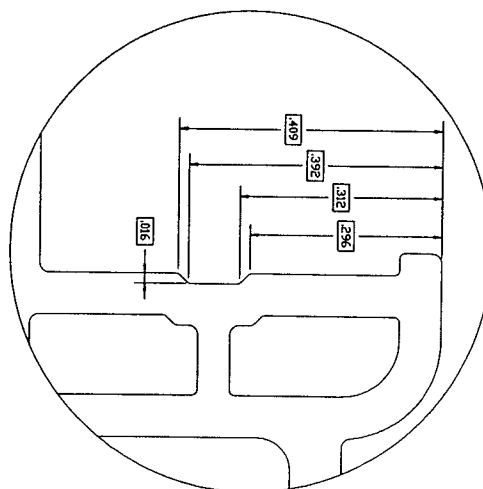
DESIGN BY:	CRB
DATE:	03/07/22
DRAWN BY:	CRB
DATE:	03/08/06
AUTH:	
DATE:	
FILENAME:	
H:\pd\cad\parts\8515	
10008515_SH3.M	

		COPYRIGHT 2002 DAYTON ENGINEERING & EQUIPMENT CO.	
DAYTON THERMAL ANALYSIS		DSC/SCANNING HEAT FLOW SYSTEM ANALYSIS SOFTWARE	
NAME:			
FIXED MEETING RAIL			
C Dwg. NO.		REV.	
10008515_SH3		-	
DATE: 4/11/2007		SHEET: 3	



Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech CR



UNLESS OTHERWISE SPECIFIED ALL ANGLES IN INCHES 2 PL. @ 4" P.L. ± .005 INTERPRET DIM. & TOL. PER ASME Y14.5M - 1994	THIRD ANGLE PROJECTION	DATE:	
	DECISION BY:	CRB	
	DATE:	02/11/08	
	DESIGNED BY:	CRB	
DATE:	03/11/08		
PULL/LIFT SASH		DATE:	
 DAYTON A DIVISION OF DAYTON INDUSTRIES, INC. 10000 DAYTON AVENUE, DAYTON, OH 45424		DRAWING NO. 10008840-SH3 SCALE 4" = 1'-0"	SHEET 3 REV. A
PREPARED BY: HED/CRB/pjw/sjs 8840/10008840-SH3			



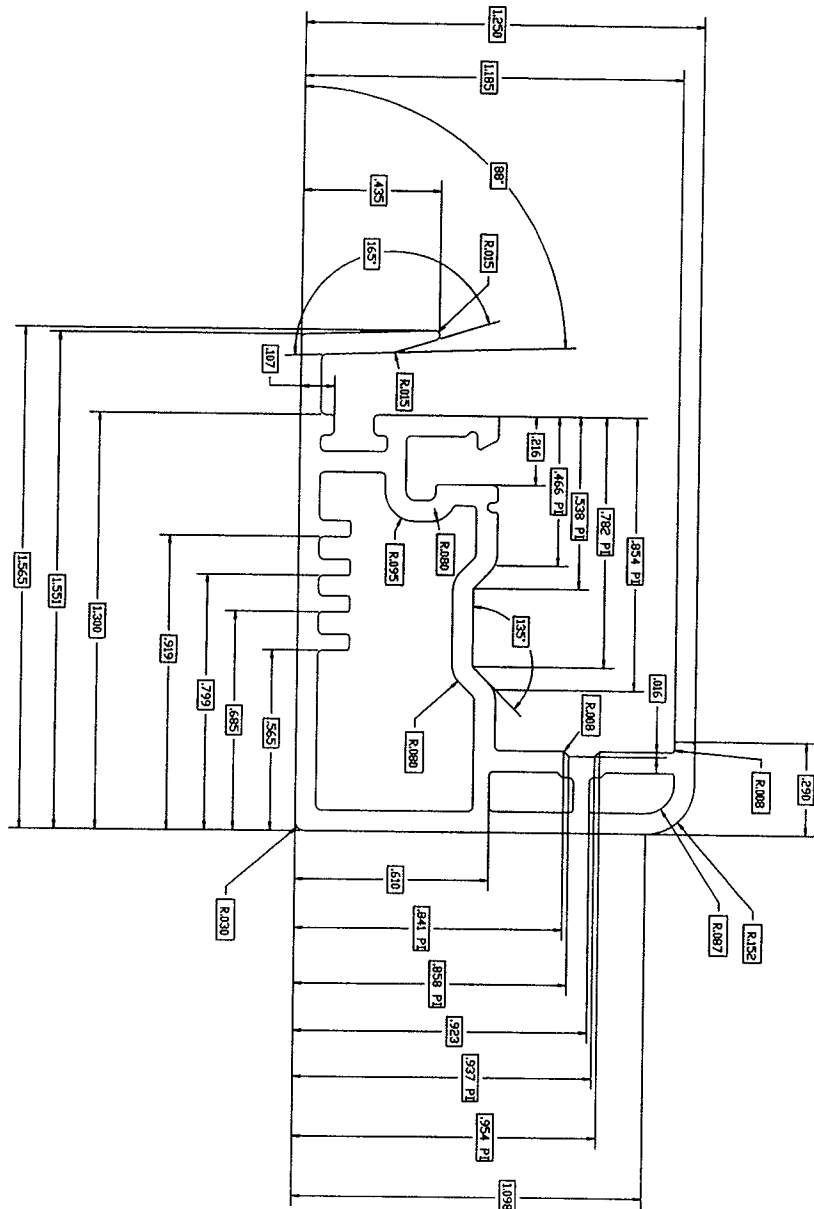
Report# 54090
Date 3/30/05 Tech ESL

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. NO PART MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DAYTON TECHNOLOGIES. DAYTON TECHNOLOGIES RESERVES THE RIGHT TO ALTER THIS DRAWING AND ANY ASSOCIATED DOCUMENTS.		UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES DIM ARE IN INCHES 2 PL ± .01 3 PL ± .005 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994 THIRD ANGLE PROJECTION	
			
DATE: 03/11/06		DESIGN BY: CRB	
DRAWN BY: CRB		DATE: 03/11/06	
DATE: 03/11/06		NOTES:	
ITEM#:		ITEM#:	
1000B9842, SHW		1000B9842, SHW	
C/DWG. NO. 1000B9842-SH3		REV#	
SCALE: 4:1 (1/8"=1')		SHEET: 3	



Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech EBL



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. IT IS THE PROPERTY OF DAYTON TECHNOLOGIES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE EXPRESS WRITTEN PERMISSION OF DAYTON TECHNOLOGIES, INC. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT IS PROHIBITED AND WILL BE SUBJECT TO LEGAL ACTION.

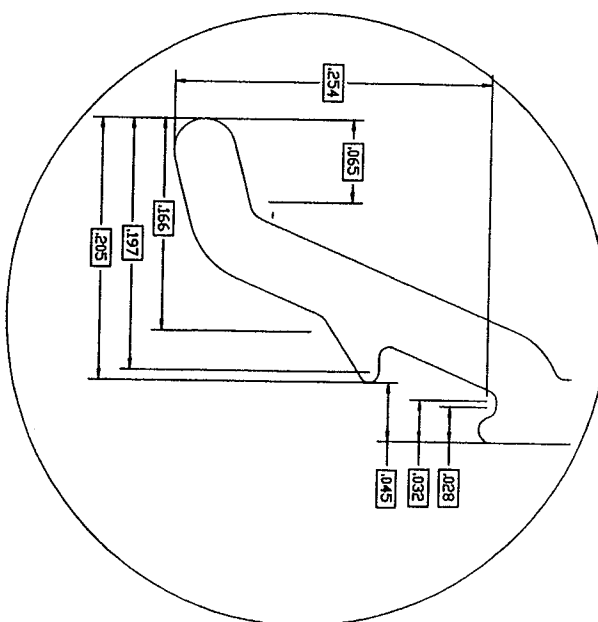
UNLESS OTHERWISE SPECIFIED		DESIGN BY: CRB
DIMENSIONS IN INCHES		DATE: 03/11/11
TOLERANCES		DRAWN BY: CRB
2 PL ± .01 3 PL ± .005		DATE: 03/11/11
INTERPRET DIM AND TOL PER		DATE: 03/11/11
ASME Y14.5M - 1994		DATE: 03/11/11
THIRD ANGLE PROJECTION		DATE: 03/11/11
TITLE: LDCR SASH		DATE: 03/11/11
PROJECT: 1000845_SH3		DATE: 03/11/11
SCALE: 1/1		DATE: 03/11/11
SHEET: 3		DATE: 03/11/11



Architectural Testing

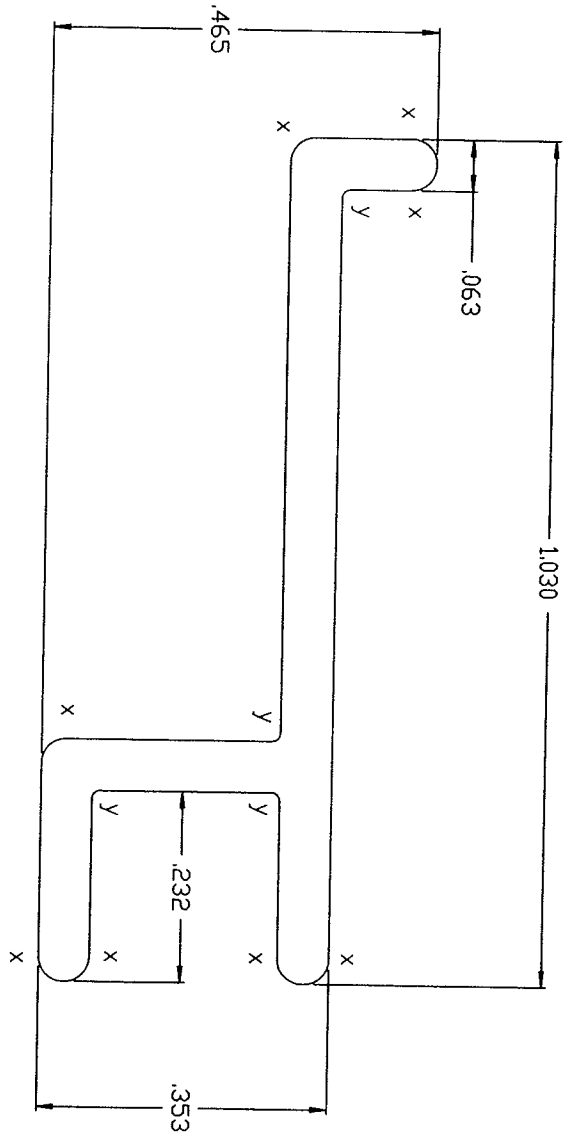
Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech CB



Report# 54090
Date 3/30/05 Tech BL

UNLESS OTHERWISE NOTED THE FOLLOWING TOLERANCES APPLY
 1/8" - .005 ± .005
 1/4" - .010 ± .010
 3/8" - .015 ± .015
 1/2" - .020 ± .020
 3/4" - .025 ± .025
 1" - .030 ± .030
 1 1/2" - .040 ± .040
 2" - .050 ± .050
 3" - .060 ± .060
 4" - .070 ± .070
 6" - .090 ± .090
 8" - .110 ± .110
 10" - .130 ± .130
 12" - .150 ± .150
 14" - .170 ± .170
 16" - .190 ± .190
 18" - .210 ± .210
 20" - .230 ± .230
 22" - .250 ± .250
 24" - .270 ± .270
 26" - .290 ± .290
 28" - .310 ± .310
 30" - .330 ± .330
 32" - .350 ± .350
 34" - .370 ± .370
 36" - .390 ± .390
 38" - .410 ± .410
 40" - .430 ± .430
 42" - .450 ± .450
 44" - .470 ± .470
 46" - .490 ± .490
 48" - .510 ± .510
 50" - .530 ± .530
 52" - .550 ± .550
 54" - .570 ± .570
 56" - .590 ± .590
 58" - .610 ± .610
 60" - .630 ± .630
 62" - .650 ± .650
 64" - .670 ± .670
 66" - .690 ± .690
 68" - .710 ± .710
 70" - .730 ± .730
 72" - .750 ± .750
 74" - .770 ± .770
 76" - .790 ± .790
 78" - .810 ± .810
 80" - .830 ± .830
 82" - .850 ± .850
 84" - .870 ± .870
 86" - .890 ± .890
 88" - .910 ± .910
 90" - .930 ± .930
 92" - .950 ± .950
 94" - .970 ± .970
 96" - .990 ± .990
 98" - 1.010 ± 1.010
 100" - 1.030 ± 1.030
 102" - 1.050 ± 1.050
 104" - 1.070 ± 1.070
 106" - 1.090 ± 1.090
 108" - 1.110 ± 1.110
 110" - 1.130 ± 1.130
 112" - 1.150 ± 1.150
 114" - 1.170 ± 1.170
 116" - 1.190 ± 1.190
 118" - 1.210 ± 1.210
 120" - 1.230 ± 1.230
 122" - 1.250 ± 1.250
 124" - 1.270 ± 1.270
 126" - 1.290 ± 1.290
 128" - 1.310 ± 1.310
 130" - 1.330 ± 1.330
 132" - 1.350 ± 1.350
 134" - 1.370 ± 1.370
 136" - 1.390 ± 1.390
 138" - 1.410 ± 1.410
 140" - 1.430 ± 1.430
 142" - 1.450 ± 1.450
 144" - 1.470 ± 1.470
 146" - 1.490 ± 1.490
 148" - 1.510 ± 1.510
 150" - 1.530 ± 1.530
 152" - 1.550 ± 1.550
 154" - 1.570 ± 1.570
 156" - 1.590 ± 1.590
 158" - 1.610 ± 1.610
 160" - 1.630 ± 1.630
 162" - 1.650 ± 1.650
 164" - 1.670 ± 1.670
 166" - 1.690 ± 1.690
 168" - 1.710 ± 1.710
 170" - 1.730 ± 1.730
 172" - 1.750 ± 1.750
 174" - 1.770 ± 1.770
 176" - 1.790 ± 1.790
 178" - 1.810 ± 1.810
 180" - 1.830 ± 1.830
 182" - 1.850 ± 1.850
 184" - 1.870 ± 1.870
 186" - 1.890 ± 1.890
 188" - 1.910 ± 1.910
 190" - 1.930 ± 1.930
 192" - 1.950 ± 1.950
 194" - 1.970 ± 1.970
 196" - 1.990 ± 1.990
 198" - 2.010 ± 2.010
 200" - 2.030 ± 2.030
 202" - 2.050 ± 2.050
 204" - 2.070 ± 2.070
 206" - 2.090 ± 2.090
 208" - 2.110 ± 2.110
 210" - 2.130 ± 2.130
 212" - 2.150 ± 2.150
 214" - 2.170 ± 2.170
 216" - 2.190 ± 2.190
 218" - 2.210 ± 2.210
 220" - 2.230 ± 2.230
 222" - 2.250 ± 2.250
 224" - 2.270 ± 2.270
 226" - 2.290 ± 2.290
 228" - 2.310 ± 2.310
 230" - 2.330 ± 2.330
 232" - 2.350 ± 2.350
 234" - 2.370 ± 2.370
 236" - 2.390 ± 2.390
 238" - 2.410 ± 2.410
 240" - 2.430 ± 2.430
 242" - 2.450 ± 2.450
 244" - 2.470 ± 2.470
 246" - 2.490 ± 2.490
 248" - 2.510 ± 2.510
 250" - 2.530 ± 2.530
 252" - 2.550 ± 2.550
 254" - 2.570 ± 2.570
 256" - 2.590 ± 2.590
 258" - 2.610 ± 2.610
 260" - 2.630 ± 2.630
 262" - 2.650 ± 2.650
 264" - 2.670 ± 2.670
 266" - 2.690 ± 2.690
 268" - 2.710 ± 2.710
 270" - 2.730 ± 2.730
 272" - 2.750 ± 2.750
 274" - 2.770 ± 2.770
 276" - 2.790 ± 2.790
 278" - 2.810 ± 2.810
 280" - 2.830 ± 2.830
 282" - 2.850 ± 2.850
 284" - 2.870 ± 2.870
 286" - 2.890 ± 2.890
 288" - 2.910 ± 2.910
 290" - 2.930 ± 2.930
 292" - 2.950 ± 2.950
 294" - 2.970 ± 2.970
 296" - 2.990 ± 2.990
 298" - 3.010 ± 3.010
 300" - 3.030 ± 3.030
 302" - 3.050 ± 3.050
 304" - 3.070 ± 3.070
 306" - 3.090 ± 3.090
 308" - 3.110 ± 3.110
 310" - 3.130 ± 3.130
 312" - 3.150 ± 3.150
 314" - 3.170 ± 3.170
 316" - 3.190 ± 3.190
 318" - 3.210 ± 3.210
 320" - 3.230 ± 3.230
 322" - 3.250 ± 3.250
 324" - 3.270 ± 3.270
 326" - 3.290 ± 3.290
 328" - 3.310 ± 3.310
 330" - 3.330 ± 3.330
 332" - 3.350 ± 3.350
 334" - 3.370 ± 3.370
 336" - 3.390 ± 3.390
 338" - 3.410 ± 3.410
 340" - 3.430 ± 3.430
 342" - 3.450 ± 3.450
 344" - 3.470 ± 3.470
 346" - 3.490 ± 3.490
 348" - 3.510 ± 3.510
 350" - 3.530 ± 3.530
 352" - 3.550 ± 3.550
 354" - 3.570 ± 3.570
 356" - 3.590 ± 3.590
 358" - 3.610 ± 3.610
 360" - 3.630 ± 3.630
 362" - 3.650 ± 3.650
 364" - 3.670 ± 3.670
 366" - 3.690 ± 3.690
 368" - 3.710 ± 3.710
 370" - 3.730 ± 3.730
 372" - 3.750 ± 3.750
 374" - 3.770 ± 3.770
 376" - 3.790 ± 3.790
 378" - 3.810 ± 3.810
 380" - 3.830 ± 3.830
 382" - 3.850 ± 3.850
 384" - 3.870 ± 3.870
 386" - 3.890 ± 3.890
 388" - 3.910 ± 3.910
 390" - 3.930 ± 3.930
 392" - 3.950 ± 3.950
 394" - 3.970 ± 3.970
 396" - 3.990 ± 3.990
 398" - 4.010 ± 4.010
 400" - 4.030 ± 4.030
 402" - 4.050 ± 4.050
 404" - 4.070 ± 4.070
 406" - 4.090 ± 4.090
 408" - 4.110 ± 4.110
 410" - 4.130 ± 4.130
 412" - 4.150 ± 4.150
 414" - 4.170 ± 4.170
 416" - 4.190 ± 4.190
 418" - 4.210 ± 4.210
 420" - 4.230 ± 4.230
 422" - 4.250 ± 4.250
 424" - 4.270 ± 4.270
 426" - 4.290 ± 4.290
 428" - 4.310 ± 4.310
 430" - 4.330 ± 4.330
 432" - 4.350 ± 4.350
 434" - 4.370 ± 4.370
 436" - 4.390 ± 4.390
 438" - 4.410 ± 4.410
 440" - 4.430 ± 4.430
 442" - 4.450 ± 4.450
 444" - 4.470 ± 4.470
 446" - 4.490 ± 4.490
 448" - 4.510 ± 4.510
 450" - 4.530 ± 4.530
 452" - 4.550 ± 4.550
 454" - 4.570 ± 4.570
 456" - 4.590 ± 4.590
 458" - 4.610 ± 4.610
 460" - 4.630 ± 4.630
 462" - 4.650 ± 4.650
 464" - 4.670 ± 4.670
 466" - 4.690 ± 4.690
 468" - 4.710 ± 4.710
 470" - 4.730 ± 4.730
 472" - 4.750 ± 4.750
 474" - 4.770 ± 4.770
 476" - 4.790 ± 4.790
 478" - 4.810 ± 4.810
 480" - 4.830 ± 4.830
 482" - 4.850 ± 4.850
 484" - 4.870 ± 4.870
 486" - 4.890 ± 4.890
 488" - 4.910 ± 4.910
 490" - 4.930 ± 4.930
 492" - 4.950 ± 4.950
 494" - 4.970 ± 4.970
 496" - 4.990 ± 4.990
 498" - 5.010 ± 5.010
 500" - 5.030 ± 5.030
 502" - 5.050 ± 5.050
 504" - 5.070 ± 5.070
 506" - 5.090 ± 5.090
 508" - 5.110 ± 5.110
 510" - 5.130 ± 5.130
 512" - 5.150 ± 5.150
 514" - 5.170 ± 5.170
 516" - 5.190 ± 5.190
 518" - 5.210 ± 5.210
 520" - 5.230 ± 5.230
 522" - 5.250 ± 5.250
 524" - 5.270 ± 5.270
 526" - 5.290 ± 5.290
 528" - 5.310 ± 5.310
 530" - 5.330 ± 5.330
 532" - 5.350 ± 5.350
 534" - 5.370 ± 5.370
 536" - 5.390 ± 5.390
 538" - 5.410 ± 5.410
 540" - 5.430 ± 5.430
 542" - 5.450 ± 5.450
 544" - 5.470 ± 5.470
 546" - 5.490 ± 5.490
 548" - 5.510 ± 5.510
 550" - 5.530 ± 5.530
 552" - 5.550 ± 5.550
 554" - 5.570 ± 5.570
 556" - 5.590 ± 5.590
 558" - 5.610 ± 5.610
 560" - 5.630 ± 5.630
 562" - 5.650 ± 5.650
 564" - 5.670 ± 5.670
 566" - 5.690 ± 5.690
 568" - 5.710 ± 5.710
 570" - 5.730 ± 5.730
 572" - 5.750 ± 5.750
 574" - 5.770 ± 5.770
 576" - 5.790 ± 5.790
 578" - 5.810 ± 5.810
 580" - 5.830 ± 5.830
 582" - 5.850 ± 5.850
 584" - 5.870 ± 5.870
 586" - 5.890 ± 5.890
 588" - 5.910 ± 5.910
 590" - 5.930 ± 5.930
 592" - 5.950 ± 5.950
 594" - 5.970 ± 5.970
 596" - 5.990 ± 5.990
 598" - 6.010 ± 6.010
 600" - 6.030 ± 6.030
 602" - 6.050 ± 6.050
 604" - 6.070 ± 6.070
 606" - 6.090 ± 6.090
 608" - 6.110 ± 6.110
 610" - 6.130 ± 6.130
 612" - 6.150 ± 6.150
 614" - 6.170 ± 6.170
 616" - 6.190 ± 6.190
 618" - 6.210 ± 6.210
 620" - 6.230 ± 6.230
 622" - 6.250 ± 6.250
 624" - 6.270 ± 6.270
 626" - 6.290 ± 6.290
 628" - 6.310 ± 6.310
 630" - 6.330 ± 6.330
 632" - 6.350 ± 6.350
 634" - 6.370 ± 6.370
 636" - 6.390 ± 6.390
 638" - 6.410 ± 6.410
 640" - 6.430 ± 6.430
 642" - 6.450 ± 6.450
 644" - 6.470 ± 6.470
 646" - 6.490 ± 6.490
 648" - 6.510 ± 6.510
 650" - 6.530 ± 6.530
 652" - 6.550 ± 6.550
 654" - 6.570 ± 6.570
 656" - 6.590 ± 6.590
 658" - 6.610 ± 6.610
 660" - 6.630 ± 6.630
 662" - 6.650 ± 6.650
 664" - 6.670 ± 6.670
 666" - 6.690 ± 6.690
 668" - 6.710 ± 6.710
 670" - 6.730 ± 6.730
 672" - 6.750 ± 6.750
 674" - 6.770 ± 6.770
 676" - 6.790 ± 6.790
 678" - 6.810 ± 6.810
 680" - 6.830 ± 6.830
 682" - 6.850 ± 6.850
 684" - 6.870 ± 6.870
 686" - 6.890 ± 6.890
 688" - 6.910 ± 6.910
 690" - 6.930 ± 6.930
 692" - 6.950 ± 6.950
 694" - 6.970 ± 6.970
 696" - 6.990 ± 6.990
 698" - 7.010 ± 7.010
 700" - 7.030 ± 7.030
 702" - 7.050 ± 7.050
 704" - 7.070 ± 7.070
 706" - 7.090 ± 7.090
 708" - 7.110 ± 7.110
 710" - 7.130 ± 7.130
 712" - 7.150 ± 7.150
 714" - 7.170 ± 7.170
 716" - 7.190 ± 7.190
 718" - 7.210 ± 7.210
 720" - 7.230 ± 7.230
 722" - 7.250 ± 7.250
 724" - 7.270 ± 7.270
 726" - 7.290 ± 7.290
 728" - 7.310 ± 7.310
 730" - 7.330 ± 7.330
 732" - 7.350 ± 7.350
 734" - 7.370 ± 7.370
 736" - 7.390 ± 7.390
 738" - 7.410 ± 7.410
 740" - 7.430 ± 7.430
 742" - 7.450 ± 7.450
 744" - 7.470 ± 7.470
 746" - 7.490 ± 7.490
 748" - 7.510 ± 7.510
 750" - 7.530 ± 7.530
 752" - 7.550 ± 7.550
 754" - 7.570 ± 7.570
 756" - 7.590 ± 7.590
 758" - 7.610 ± 7.610
 760" - 7.630 ± 7.630
 762" - 7.650 ± 7.650
 764" - 7.670 ± 7.670
 766" - 7.690 ± 7.690
 768" - 7.710 ± 7.710
 770" - 7.730 ± 7.730
 772" - 7.750 ± 7.750
 774" - 7.770 ± 7.770
 776" - 7.790 ± 7.790
 778" - 7.810 ± 7.810
 780" - 7.830 ± 7.830
 782" - 7.850 ± 7.850
 784" - 7.870 ± 7.870
 786" - 7.890 ± 7.890
 788" - 7.910 ± 7.910
 790" - 7.930 ± 7.930
 792" - 7.950 ± 7.950
 794" - 7.970 ± 7.970
 796" - 7.990 ± 7.990
 798" - 8.010 ± 8.010
 800" - 8.030 ± 8.030
 802" - 8.050 ± 8.050
 804" - 8.070 ± 8.070
 806" - 8.090 ± 8.090
 808" - 8.110 ± 8.110
 810" - 8.130 ± 8.130
 812" - 8.150 ± 8.150
 814" - 8.170 ± 8.170
 816" - 8.190 ± 8.190
 818" - 8.210 ± 8.210
 820" - 8.230 ± 8.230
 822" - 8.250 ± 8.250
 824" - 8.270 ± 8.270
 826" - 8.290 ± 8.290
 828" - 8.310 ± 8.310
 830" - 8.330 ± 8.330
 832" - 8.350 ± 8.350
 834" - 8.370 ± 8.370
 836" - 8.390 ± 8.390
 838" - 8.410 ± 8.410
 840" - 8.430 ± 8.430
 842" - 8.450 ± 8.450
 844" - 8.470 ± 8.470
 846" - 8.490 ± 8.490
 848" - 8.510 ± 8.510
 850" - 8.530 ± 8.530
 852" - 8.550 ± 8.550
 854" - 8.570 ± 8.570
 856" - 8.590 ± 8.590
 858" - 8.610 ± 8.610
 860" - 8.630 ± 8.630
 862" - 8.650 ± 8.650
 864" - 8.670 ± 8.670
 866" - 8.690 ± 8.690
 868" - 8.710 ± 8.710
 870" - 8.730 ± 8.730
 872" - 8.750 ± 8.750
 874" - 8.770 ± 8.770
 876" - 8.790 ± 8.790
 878" - 8.810 ± 8.810
 880" - 8.830 ± 8.830
 882" - 8.850 ± 8.850
 884" - 8.870 ± 8.870
 886" - 8.890 ± 8.890
 888" - 8.910 ± 8.910
 890" - 8.930 ± 8.930
 892" - 8.950 ± 8.950
 894" - 8.970 ± 8.970
 896" - 8.990 ± 8.990
 898" - 9.010 ± 9.010
 900" - 9.030 ± 9.030
 902" - 9.050 ± 9.050
 904" - 9.070 ± 9.070
 906" - 9.090 ± 9.090
 908" - 9.110 ± 9.110
 910" - 9.130 ± 9.130
 912" - 9.150 ± 9.150
 914" - 9.170 ± 9.170
 916" - 9.190 ± 9.190
 918" - 9.210 ± 9.210
 920" - 9.230 ± 9.230
 922" - 9.250 ± 9.250
 924" - 9.270 ± 9.270
 926" - 9.290 ± 9.290
 928" - 9.310 ± 9.310
 930" - 9.330 ± 9.330
 932" - 9.350 ± 9.350
 934" - 9.370 ± 9.370
 936" - 9.390 ± 9.390
 938" - 9.410 ± 9.410
 940" - 9.430 ± 9.430
 942" - 9.450 ± 9.450
 944" - 9.470 ± 9.470
 946" - 9.490 ± 9.490
 948" - 9.510 ± 9.510
 950" - 9.530 ± 9.530
 952" - 9.550 ± 9.550
 954" - 9.570 ± 9.570
 956" - 9.590 ± 9.590
 958" - 9.610 ± 9.610
 960" - 9.630 ± 9.630
 962" - 9.650 ± 9.650
 964" - 9.670 ± 9.670
 966" - 9.690 ± 9.690
 968" - 9.710 ± 9.710
 970" - 9.730 ± 9.730
 972" - 9.750 ± 9.750
 974" - 9.770 ± 9.770
 976" - 9.790 ± 9.790
 978" - 9.810 ± 9.810
 980" - 9.830 ± 9.830
 982" - 9.850 ± 9.850
 984" - 9.870 ± 9.870
 986" - 9.890 ± 9.890
 988" - 9.910 ± 9.910
 990" - 9.930 ± 9.930
 992" - 9.950 ± 9.950
 994" - 9.970 ± 9.970
 996" - 9.990 ± 9.990
 998" - 10.010 ± 10.010
 1000" - 10.030 ± 10.030
 1002" - 10.050 ± 10.050
 1004" - 10.070 ± 10.070
 1006" - 10.090 ± 10.090
 1008" - 10.110 ± 10.110
 1010" - 10.130 ± 10.130
 1012" - 10.150 ± 10.150
 1014" - 10.170 ± 10.170
 1016" - 10.190 ± 10.190
 1018" - 10.210 ± 10.210
 1020" - 10.230 ± 10.230
 1022" - 10.250 ± 10.250
 1024" - 10.270 ± 10.270
 1026" - 10.290 ± 10.290
 1028" - 10.310 ± 10.310
 1030" - 10.330 ± 10.330
 1032" - 10.350 ± 10.350
 1034" - 10.370 ± 10.370
 1036" - 10.390 ± 10.390
 1038" - 10.410 ± 10.410
 1040" - 10.430 ± 10.430
 1042" - 10.450 ± 10.450
 1044" - 10.470 ± 10.470
 1046" - 10.490 ± 10.490
 1048" - 10.510 ± 10.510
 1050" - 10.530 ± 10.530
 1052" - 10.550 ± 10.550
 1054" - 10.570 ± 10.570
 1056" - 10.590 ± 10.590
 1058" - 10.610 ± 10.610
 1060" - 10.630 ± 10.630
 1062" - 10.650 ± 10.650
 1064" - 10.670 ± 10.670
 1066" - 10.690 ± 10.690
 1068" - 10.710 ± 10.710
 1070" - 10.730 ± 10.730
 1072" - 10.750 ± 10.7



- Notes:
- 1) "X" = .030" radius
 - 2) "Y" = .010" radius

Standard Commercial Tolerances
Apply Unless Otherwise Noted

DAYTON EXTRUDED PLASTICS SPRINGBORO, OHIO Copyright 1994			
NAME:	0093 SASH REINFORCEMENT	MATERIAL(S):	ALUMINUM
DRAWN BY:	DAS	DATE:	3/22/94
CHECKED BY:		DATE:	
SCALE:	5 : 1 'A'	PART DWG. NO.	A6202
CUST. PART NO.	6202	DIE NO.	6202
Area :	.103 Sq. In.	Weight :	.123 Lb./Ft.

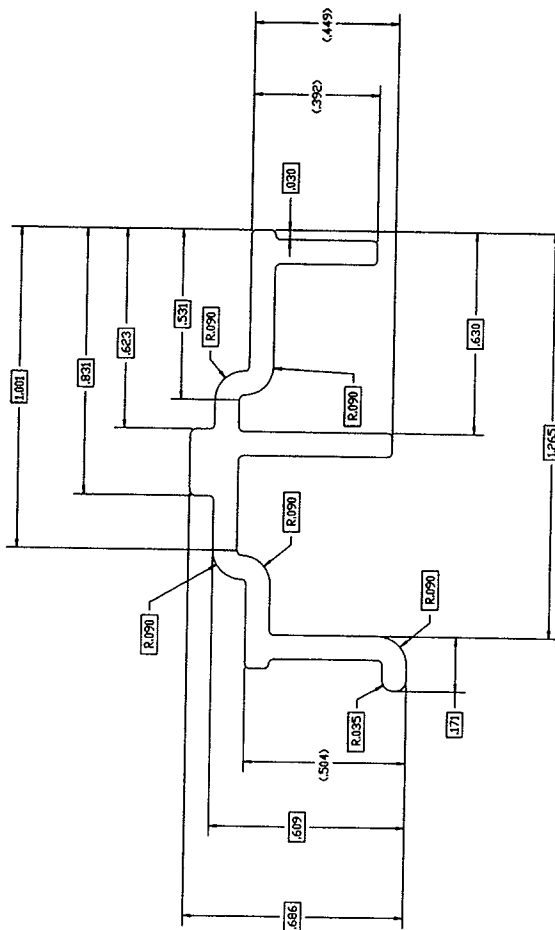


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech ESL

CAD MAINTA' INCORPORAT.



UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES ± TOL ON ANGLE ± 1° 2 PL ± .01 3 PL ± .005 INTERPRET DIM AND TOL PER ASME Y14.5-1994	DESIGN BY: CDB	DATE: 04/02/01	 DAYTON TECHNOLOGY	deSousa 1201 NORTH LAVERGUE ROAD DAYTON, OH 45424-1099 (937) 233-1000 FAX (937) 233-1001	COMMENTS: DIM 1201 NORTH LAVERGUE ROAD DAYTON, OH 45424-1099
	DATE: 04/02/01	DATE: 04/02/01			
THIRD ANGLE PROJECTION	DATE:				SLIDER TRACK INSERT
	FILENAME: H:\ed\cad\parts\	C Dwg. NO.	1000B466	REV.	A
	9466\1000B466_3B				

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.



Architectural Testing

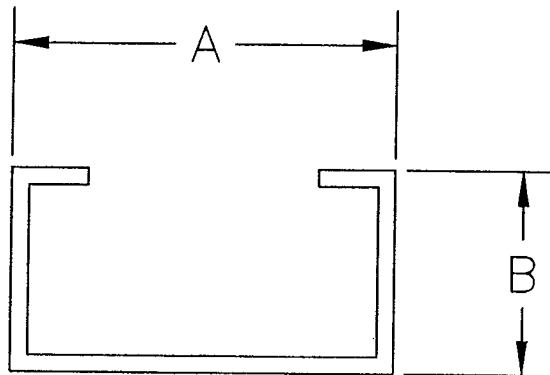
Test sample complies with these details.
Deviations are noted.

Report# 54090

Date 3/30/05

Tech E32

SPACER



Material: STEEL
Width (A): 0.512, 0.45", 0.325"
Height (B): 0.300"
Wall Thickness: 0.010"

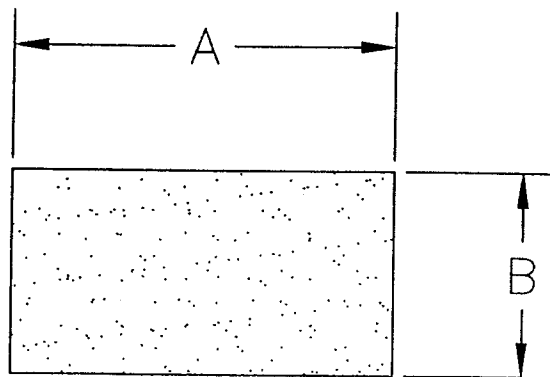


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech ESL

SPACER



Material: BIL LONE FOAM
Width (A): 0.563, 0.500, 0.375
Height (B): 0.188
Wall Thickness: N/A

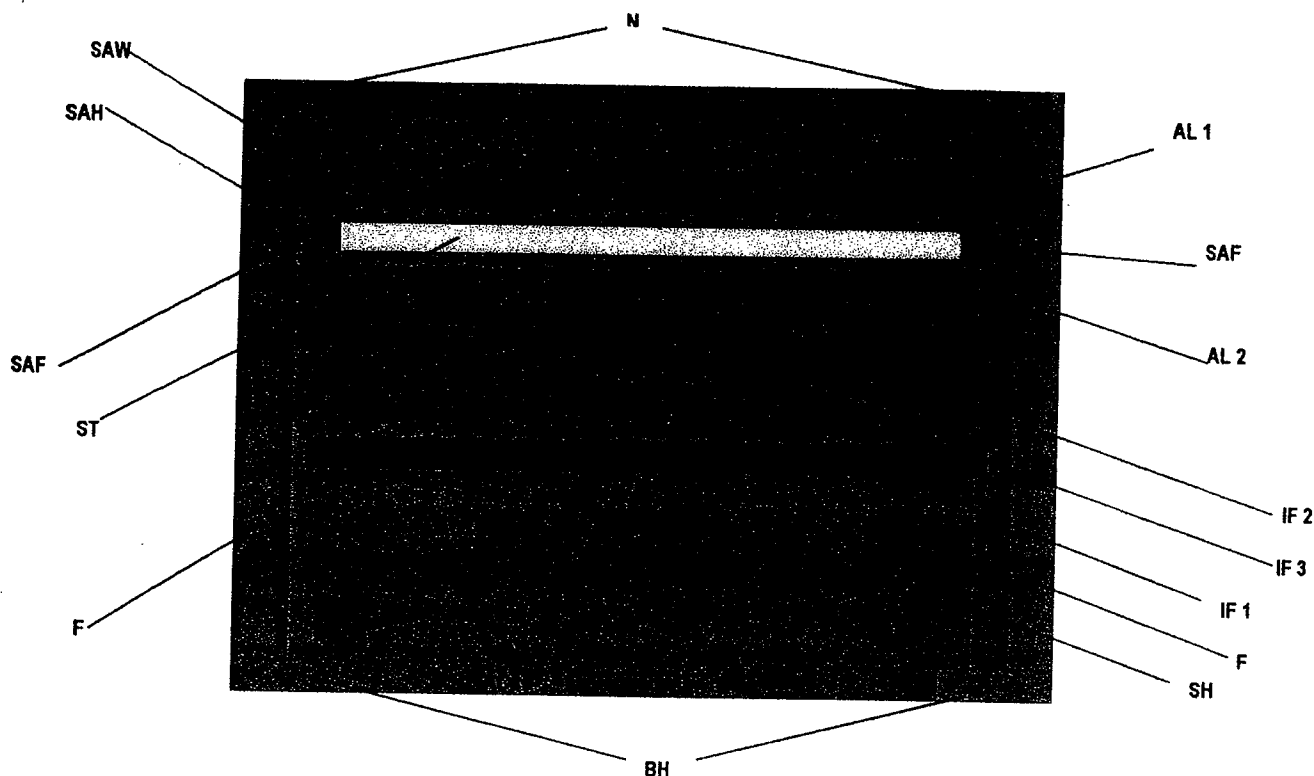


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech BL

Legend



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	Polypropylene 1.53 Btu in/hr ft ² °F	0.221 W/m/°C
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 1 3 4	Default cavity	Default cavity	default still air*
AC 2	still air	still air – default conductivity	default still air*
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

* Corrected from previous version

If there are questions regarding this document please call

Rich Warren
Technical Service
TruSeal Technologies
416 438 1858
888 257 7610



Architectural Testing

Test sample complies with these details.
Deviation: none noted.

Report# 54090

Date 3/30/05

By [Signature]

Airspace	PRGID	CODE	Vertical				Profile			
			Declared	Altitude	Dr	W	H	Declared	Dr	H
3175	118	0.188	1.773	6.408-6.217	0.091-1.155	4.302	4.381	4.880-4.511	7.28-7.52	
15824	208	0.204	8.218	8.226-8.283	8.201-8.218	8.00	8.84	8.84-8.461	7.28-7.52	
14	208	0.208	0.235	8.250-8.278	8.200-0.235	4.40	6.87	8.38-7.08	7.18-7.42	
5176	308	0.318	0.285	9.315-9.343	9.285-0.285	7.50	7.58	7.98-8.68	7.18-7.42	
11032	348	0.344	0.328	9.364-9.372	9.285-0.328	8.70	8.38	8.78-9.47	7.18-7.42	
38	378	0.378	0.358	9.378-9.444	9.285-0.358	8.80	8.14	8.82-10.95	7.18-7.42	
12732	418	0.418	0.404	9.408-9.435	9.285-0.404	10.30	10.34	10.31-11.05	7.18-7.42	
7078	438	0.438	0.423	9.438-9.470	9.285-0.423	11.10	10.23	11.12-11.85	7.18-7.42	
18732	478	0.478	0.448	9.488-9.498	9.285-0.448	11.80	11.43	11.81-12.05	7.18-7.42	
3184	488	0.484	0.458	9.488-9.508	9.285-0.458	12.30	11.43	12.18-12.13	7.18-7.42	
12	508	0.508	0.488	9.508-9.518	9.285-0.488	12.70	12.72	12.70-13.48	7.18-7.42	
1732	538	0.538	0.518	9.538-9.582	9.285-0.518	13.80	13.00	13.48-14.22	7.28-7.52	
518	608	0.608	0.518	9.608-9.682	9.285-0.518	14.30	13.91	14.30-15.04	7.28-7.52	
3884	818	0.818	0.688	9.688-9.808	9.285-0.688	15.80	15.24	15.47-18.21	7.28-7.52	
58	878	0.878	0.818	9.818-9.878	9.285-0.818	18.24	18.48	18.00-18.81	7.28-7.52	
11718	948	0.948	0.872	9.872-9.972	9.285-0.872	17.80	17.08	17.42-18.21	7.28-7.52	
12718	978	0.978	0.798	9.878-9.978	9.285-0.798	20.80	20.28	20.65-21.39	7.28-7.52	

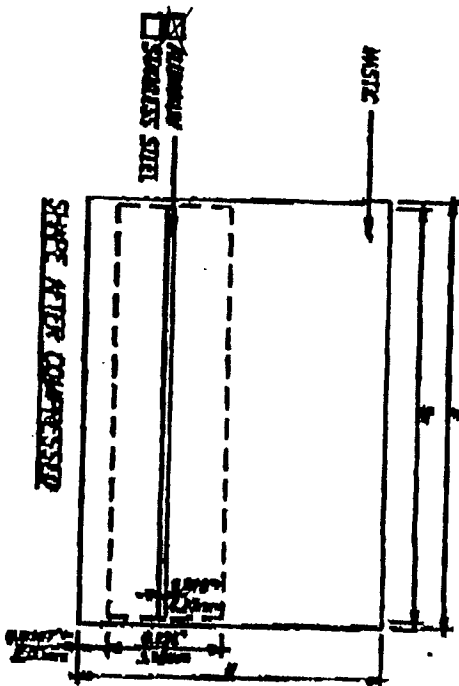
This Library:



Architectural Testing

Test sample complies with these details.
Deviations noted.

Report# 54090
Date 3/30/05 Tech 32



TRUSSEAL
Technologies

SPACER LIBRARY
FOR SIMULATIONS

SINGLE SEAL
SINGLE SEAL

DATE FOR
EAL
SHORE TO
M.H.
DATE
29 SEPT 00
M.H.
PROJECT NO.
TRUSSEAL
SHORE TO



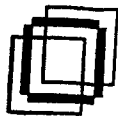
Test sample complies with these details.
 Deviation: Not noted.

Date 3/30/05

Tech ESL

1. MATERIAL: 201 STAINLESS STEEL, .0050 +/- .00025 WALL THICKNE
ANNEALED TEMPER, 1 CBA FINISH.
2. LASER STITCH WELD 33 PULSE PER INCH, NO EXTERIOR FLASH,
NO THROUGH BURNS.
3. SURFACES LABELED "X" MUST BE PARALLEL TO EACH OTHER.
4. SPACER MUST BE CLEAN AND FREE OF DIRT AND OILS.

[illegible]



ALLMETAL

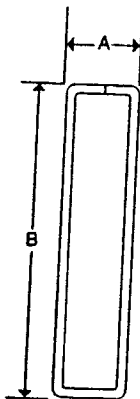
Muntin Bar

Painted, Mill Finish and Anodized Aluminum

TOLERANCE

A, $\pm .005$.127mm

B, $\pm .005$.127mm



The seller hereby expressly disclaims all warranties either expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose. Products are sold 'As Is' and on the condition that the purchasers shall make their own tests to determine the merchantability of such products and their fitness for any particular purpose. The liability of ALLMETAL, INC. for special, indirect or consequential damages for injury to a property for any reason or for any other loss resulting from a product defect or failure shall be limited to the purchase price of the product.

SPECIAL NOTICE

Cleaning and Handling of Muntin Bar

We recommend muntin bar to be wiped clean before installation into an insulating glass unit. A household grade liquid cleaner may be used for this purpose.

To avoid breakdown of painted surfaces, do not use M.E.K., Triethane, Alcohol or like substances for the cleaning of painted muntin bar.

When machining and processing muntin bar in your plant, keep saw tables and work areas free of saw cut filings to avoid scratching the painted surfaces.

FRACTIONAL DECIMAL IN INCHES

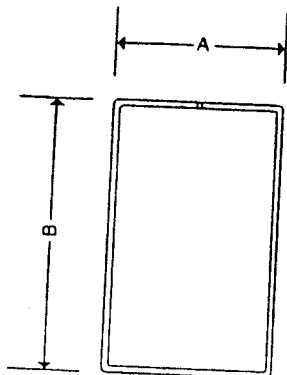
Size	A	B
3/16x1/2	.187	.500
3/16x9/16	.187	.551
3/16x5/8	.187	.630
* 3/16x.610	.187	.610
3/16x3/4	.187	.775
3/16x13/16	.187	.801
3/16x1	.187	1.000
1/4x5/16	.235	.313
1/4x9/16	.235	.562
1/4x5/8	.235	.625
1/4x3/4	.235	.765
1/4x1	.235	1.000
3/8x5/8	.325	.625
3/8x3/4	.325	.750
3/8x7/8	.325	.875
3/8x1	.325	1.000
1/2x3/4	.500	.750
1/2x1/2	.500	.500
1/2x1	.500	1.000
7/16x3/8	.425	.375
7/16x5/8	.438	.625
7/16x1	.438	1.000
5/8x5/8	.625	.625

* Available in Tutone

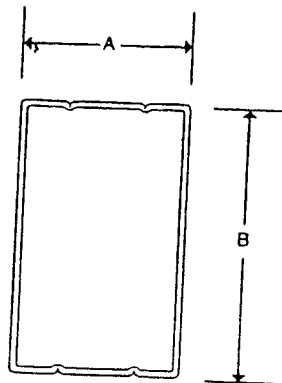
Muntin Bar-ZT & PT - Laser-Welded

Mill Finish and Anodized Aluminum

TOLERANCE



'Zippered' Top



Perforated Top

FRACTIONAL DECIMAL IN INCHES

Size	A	B
.187 x .500	.187	.500
.187 x .625	.187	.625
.187 x .750	.187	.750
.187 x 1.00	.187	1.00
.235 x .500	.235	.500
.235 x .625	.235	.625
.235 x 1.00	.235	1.00
.250 x .750	.250	.750
.312 x .500	.312	.500
.312 x .625	.312	.625
.325 x .500	.325	.500
.325 x .625	.325	.625
.325 x .750	.325	.750
.325 x .875	.325	.875
.325 x 1.00	.325	1.00
.375 x .500	.375	.500
.375 x .625	.375	.625
.437 x .500	.437	.500
.500 x .500	.500	.500
.437 x .625	.437	.625
.625 x .625	.625	.625



Architectural Testing

Muntin B

Test sample complies with these details.
Deviation noted.

Report#

54090

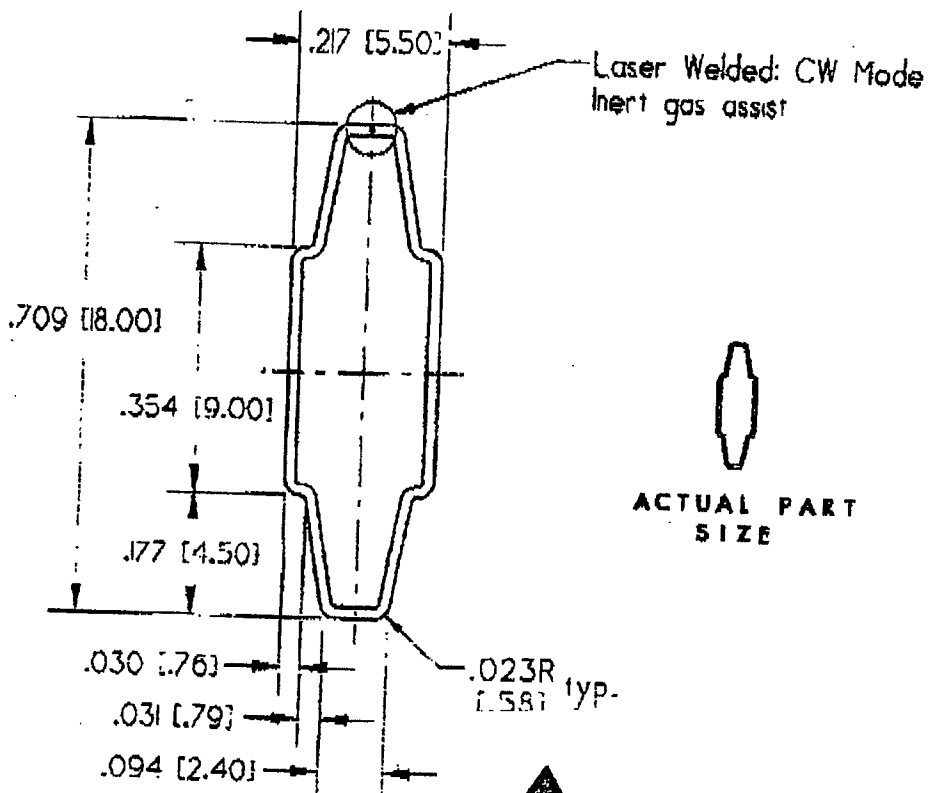
Date

3/30/05

Tech

ESL

NOTE: ALL DIMENSIONS IN [] BRACKETS ARE MM UNLESS NOTED



Architectural Testing

Test sample complies with these details.
Deviation noted.

Report# 54090

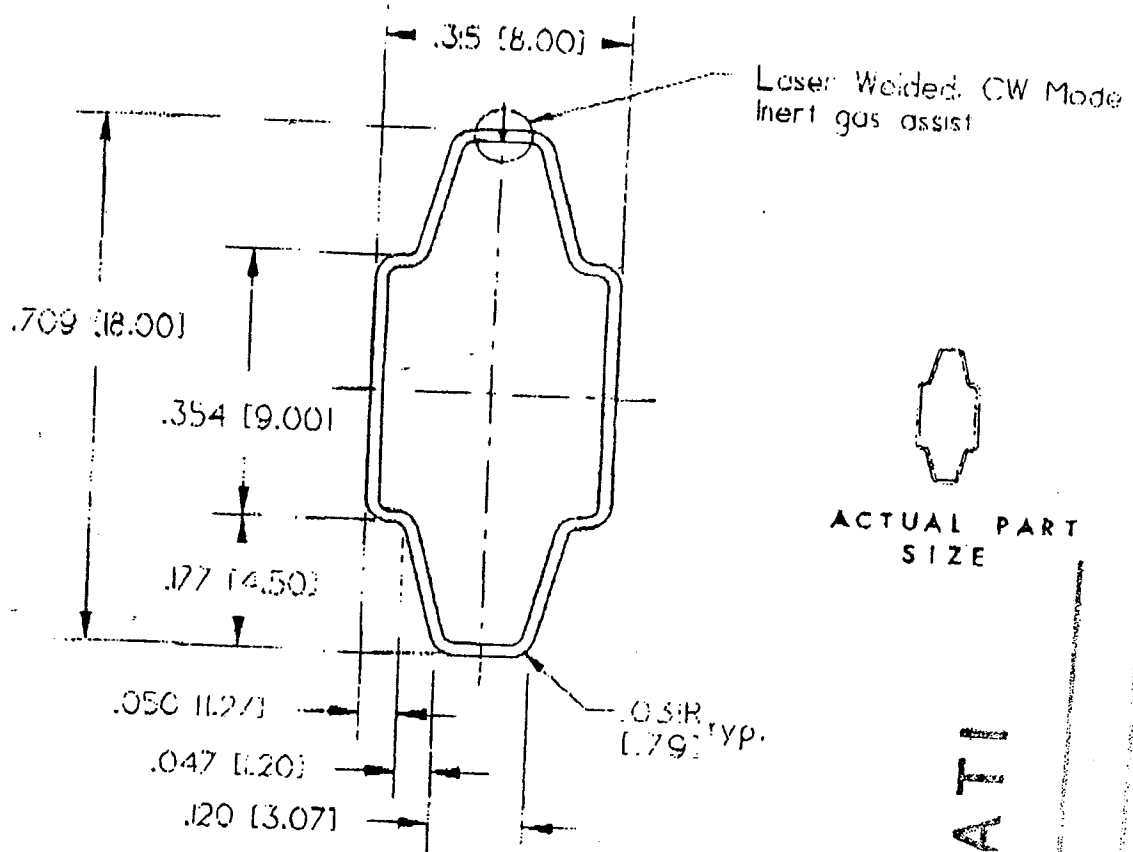
Date 3/30/05

Tech GSC

4/17/97		Weld note changed. Title block changed		GRM	
12/9/92		Initial Release		GRM	
DATE	SYN.	REVISION	AUTH.	DRN.	CK.
		INFORMATION SHOWN ON THIS PRINT IS PROPRIETARY. THIS DRAWING IS NOT TO BE REPRODUCED EITHER WHOLLY OR IN PART WITHOUT THE EXPRESS PERMISSION OF ALLMETAL INC.			
TOLERANCES EXCEPT AS NOTED		TITLE 5.5 x 18mm Contour Munfin Bar (CMB)		DRN. BY G. Matthews	
DECIMAL INCHES .XX .XXX .XXXX ± .01 .005 .0002		MATL. .016" [.41mm] 3105 Aluminum		CK. BY	
DECIMAL MM .XX .XXX ± .13 .06		FINISH FULL RANGE (MILL, ANOD., PAINTED)		APPR. BY	
ANGULAR ± 1°		SCALE 4:1		S.O. NO.	
DATE 4/17/97		DWS. NO. 1020301010XX255			

FILENAME: CMB5318J

NOTE: ALL DIMENSIONS IN [] BRACKETS ARE MM UNLESS NOTED



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech ESL

4/17/97		Weld note changed, T
12/9/97		Initial Release
DATE	SYM.	



ALLMETAL

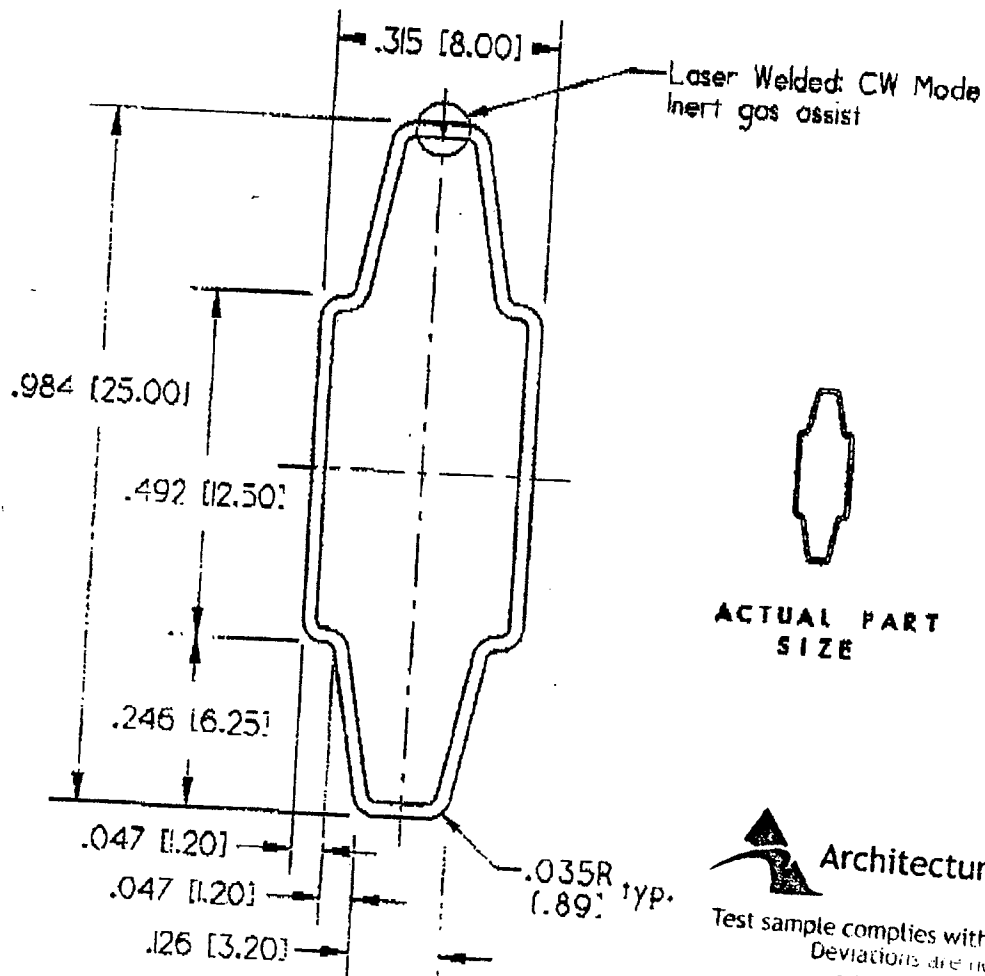
DRN.	CK.
DRM	
DRM	
DRN.	CK.

REVIEWED BY WHOLLY
ION OF

TOLERANCES EXCEPT AS NOTED		TITLE 8 x 18mm Contour Muntin Bar (CMB)		URN. BY G. MATTHEWS	
DECIMAL INCHES .XX .XXX .XXXX ± .01 .005 .0002		MATERIAL .016" [.41mm] 3105 Aluminum		CK. BY	
DECIMAL MM .XX .XXX ± .13 .06		FINISH FULL RANGE (MILL. ANOD. PAINTED)		APPR. BY	
ANGULAR ± 1°		SCALE 4:1		S.O. NO.	
		DATE 4/17/97		DWG. NO. 1020301010XX280	

FILENAME:CM8818J

NOTE: ALL DIMENSIONS IN [] BRACKETS ARE MM UNLESS NOTED



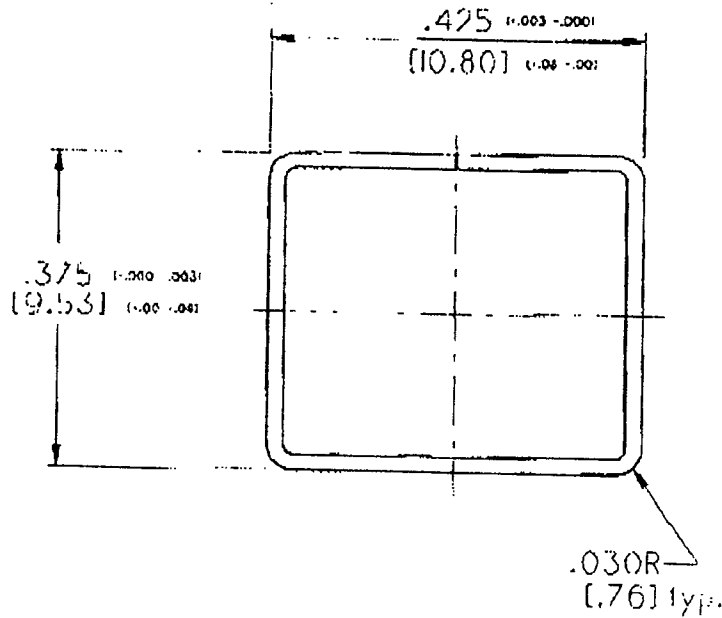
Architectural Testing
Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech ESL

4/17/97		Weld note changed. Title block changed			
4/1/95		Gauge changed from .016 to .020			GRM
12/9/92		Initial Release			GRM
DATE	SYN.				GRM
REVISION			AUTH.	DRN.	CK.
			INFORMATION SHOWN ON THIS PRINT IS PROPRIETARY. THIS DRAWING IS NOT TO BE REPRODUCED EITHER WHOLLY OR IN PART WITHOUT THE EXPRESS PERMISSION OF ALLMETAL INC.		
TOLERANCES EXCEPT AS NOTED		TITLE 8 x 25mm Contour Muntin Bar (CMB)		DRN. BY G. Matthews	
DECIMAL INCHES .XX .XXX .XXXX ± .01 .005 .0002		MATL. .020" [.51mm] 3105 Aluminum		CK. BY	
DECIMAL MM .XX .XXX ± .13 .06		FINISH FULL RANGE (MILL, ANOD., PAINTER)		APPR. BY	
ANGULAR ± 1°		SCALE 4:1		S.O. NO.	
DATE 4/17/97		DRG. NO. 1020301010XX380			

FILENAME: CMB825J

NOTE: ALL DIMENSIONS IN [] BRACKETS ARE MM UNLESS NOTED



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 54090
Date 3/30/05 Tech EL

ACTUAL PART
SIZE

FILE NAME: \\MB\0185\716X38

DATE	SYM.	REVISION		AUTH.	DRN.	CK
 ALLMETAL		INFORMATION SHOWN ON THIS PRINT IS PROPRIETARY THIS DRAWING IS NOT TO BE REPRODUCED EITHER WHOLLY OR IN PART WITHOUT THE EXPRESS PERMISSION OF ALLMETAL INC.				
TOLERANCES EXCEPT AS NOTED		TITLE 7/16 x 3/8 MB (Muntin Bar)			DRN BY G. Matthews	
DECIMAL INCHES .XX .XXX .XXXX ± .01 .005 .0002		MATL. .0185 [.47mm] 3105-H24 Aluminum			CK. BY	
DECIMAL MM .XX .XXX ± .13 .08		FINISH ALL BUT ANODIZED			APPL. BY	
ANGULAR ± 1°		SCALE 5:1	DATE 11/15/01	DWG. NO. 1020108018XX124		

11/14/2003 16:18 FAX 15135395407

11/13/2003 THU 17:36 FAX 8124643131 AMERICAN WINDOW & GLASS

11/06/2003 10:24 8644396065

DAYTON TECH ENG.

HELIMA HELVETION

22/05/97

12:33

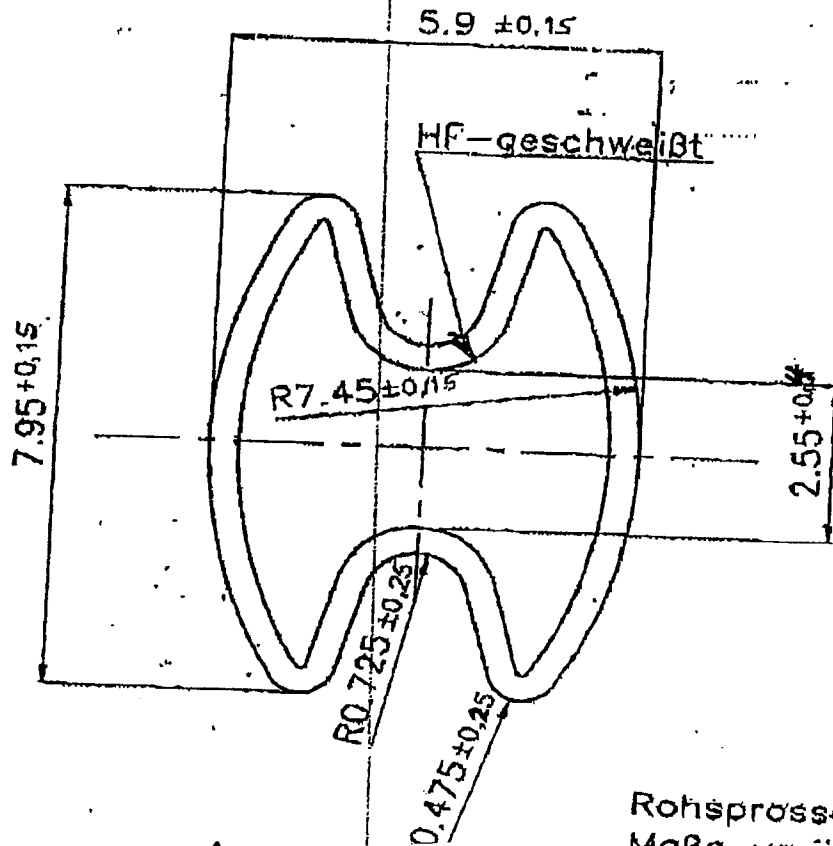
LINGEMANN GMBH - 8644330074

010

009/010

PAGE 02/02

NR. 329



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Verteiler: BTL
GMBH
Produkt
AV

Report# 54090

Date 3/30/05 Tech BL

Rohsprössel
Maße variieren je nach
Oberflächenbehandlung

M1

Werkstoff: Bd 0,4 +0,04
-0,03

1	Höhe u. Breite geändert	04.07.99	H8f
Ä-Nr./Art der Änderung		Datum	Name

Al 99,85-ähnlich EN 1085/WN
wahlweise EN AW-3003

1996	Tag	Name
Rearb.	24.01.	Höflinghoff
Gepr.		

Für diese Zeichnung bzw.
techn. Unterlage behalten
wir uns alle Rechte vor.

Helmut Lingemann
GmbH & Co.
Aluminium-Prod und
Werkzeug
Am Dockersbüschchen 62
42114 Wuppertal

Maßstab: 10:1

Benennung:

Einbausprosse, geschweißt

Maßstab ohne
Teil-Angabe
DIN
7168-m

Zeichnungsnummern

KP 8x1,5G

Probe Nr. KP810x1,5G

AI

Erstellt durch:

Nr. 1