



ETC Laboratories

ETC Laboratories
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Simulation Report (Revised)

Rendered To:

Showcase Custom Vinyl Windows
1002 Olde Towne Drive
Irving, TX 75061

Productline Series/Model

Series 5400 Vinyl Patio Door

Report Number

ETC-07-738-19092.1

Report Number: ETC-07-738-19092.1
 Job Number: ETC-08-738-20621-3
 Simulation Date: July 26, 2007
 Report Date: July 26, 2007
 Expiration Date: July 26, 2011
 Revision Date: February 19, 2008

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

Rendered To:

Showcase Custom Vinyl Windows
 1002 Olde Towne Drive
 Irving, TX 75061

Product Series/Model	Operating Type	Model Size (mm x mm)
Series 5400 Vinyl Patio Door	Sliding Patio Door with Frame, XO	2000 x 2000

Validation Test Unit Description*

Item	Unit	Value
Frame type	-	VY
Sash type	-	VA
Overall width	in.	78.75
Overall height	in.	79.50
Overall IG nominal thickness	-	1.000
Number of glazing layers	-	2
Glass type	-	Float
Glass 1 thickness	in.	0.118
Glass 2 thickness	in.	0.266
Glass 3 thickness	in.	-
Spacer type	-	A8-D
Gap 1 thickness	in.	0.616
Gap 2 thickness	in.	-
Low-e emissivity	-	0.036
Low-e surface	-	2
IG gap fill	-	ARG
Percent gap fill	-	90

* Aluminum reinforcements in all members of both panels

Validation Test Unit U-factor

Item	Unit	Value
Simulated U-Factor	Btu/hr-ft ² -°F	0.36

Notes: The validation unit was submitted by Showcase Custom Vinyl Windows.

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

Manufacturer Name: Showcase Custom Vinyl Windows
 Product Series / Model: Series 5400 Vinyl Patio Door
 Operator Type: Sliding Patio Door with Frame, XO
 Frame Type: VY
 Sash Type: VA

Job Number: ETC-07-738-20621-3
 Sim Lab Code: SETC
 Model Size (mm x mm) 2000 x 2000
 Thermal Break Type:

Report Number: ETC-07-738-19092.1

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 1	Spacer	Emissivity Surface 1	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 4	Emissivity Surface 5	Emissivity Surface 6	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	1.000	0.118	0.118		0.764		AIR				A8-D	0.036							0.31	0.36	0.70	N		0.36	53	0.27	0.51	RLE/Clr
	01	1.000	0.118	0.118		0.764		AIR				A8-D	0.036							0.31	0.36	0.70	G < 1"		0.36	53	0.24	0.44	
	02	1.000	0.118	0.118		0.764		AIR				A8-D	0.036							0.31	0.36	0.70	S > 1"		0.36	53	0.21	0.38	
002	00	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.036							0.26	0.36	0.70	N		0.32	54	0.27	0.51	RLE/Clr, Arg
	01	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.036							0.26	0.36	0.70	G < 1"		0.32	54	0.24	0.44	
	02	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.036							0.26	0.36	0.70	S > 1"		0.32	54	0.21	0.38	
003	00	1.000	0.197	0.197		0.607		AIR				A8-D	0.036							0.30	0.36	0.68	N		0.35	53	0.27	0.50	RLE/Clr
	01	1.000	0.197	0.197		0.607		AIR				A8-D	0.036							0.30	0.36	0.68	G < 1"		0.35	53	0.24	0.44	
	02	1.000	0.197	0.197		0.607		AIR				A8-D	0.036							0.30	0.36	0.68	S > 1"		0.35	53	0.21	0.38	
004	00	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.036							0.25	0.36	0.68	N		0.32	53	0.27	0.50	RLE/Clr, Arg
	01	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.036							0.25	0.36	0.68	G < 1"		0.32	53	0.24	0.44	
	02	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.036							0.25	0.36	0.68	S > 1"		0.32	53	0.21	0.38	
005	00	1.000	0.118	0.266		0.616		AIR				A8-D	0.036							0.30	0.36	0.68	N		0.35	54	0.27	0.50	RLE/030-Lami
	01	1.000	0.118	0.266		0.616		AIR				A8-D	0.036							0.30	0.36	0.68	G < 1"		0.35	54	0.24	0.43	
	02	1.000	0.118	0.266		0.616		AIR				A8-D	0.036							0.30	0.36	0.68	S > 1"		0.35	54	0.21	0.37	
	03	1.000	0.118	0.315		0.567		AIR				A8-D	0.036							0.29	0.36	0.68	N		0.35	54	0.27	0.50	RLE/060-Lami
	04	1.000	0.118	0.315		0.567		AIR				A8-D	0.036							0.29	0.36	0.68	G < 1"		0.35	54	0.24	0.43	

Report Number: ETC-07-738-19092.1

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 1	Spacer	Emissivity Surface 1	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 4	Emissivity Surface 5	Emissivity Surface 6	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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	05	1.000	0.118	0.315		0.567		AIR				A8-D	0.036							0.29	0.36	0.68	S	>1"	0.35	54	0.21	0.37	
	06	1.000	0.118	0.315		0.567		AIR				A8-D	0.036							0.29	0.36	0.67	N		0.35	54	0.27	0.49	RLE/090-Lami
	07	1.000	0.118	0.315		0.567		AIR				A8-D	0.036							0.29	0.36	0.67	G	< 1"	0.35	54	0.24	0.43	
	08	1.000	0.118	0.315		0.567		AIR				A8-D	0.036							0.29	0.36	0.67	S	>1"	0.35	54	0.21	0.37	
006	00	1.000	0.118	0.266		0.616		ARG	90			A8-D	0.036							0.25	0.36	0.68	N		0.32	54	0.27	0.50	RLE/030-Lami, Arg
	01	1.000	0.118	0.266		0.616		ARG	90			A8-D	0.036							0.25	0.36	0.68	G	< 1"	0.32	54	0.24	0.43	
	02	1.000	0.118	0.266		0.616		ARG	90			A8-D	0.036							0.25	0.36	0.68	S	>1"	0.32	54	0.21	0.37	
	03	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.036							0.25	0.36	0.68	N		0.32	54	0.27	0.50	RLE/060-Lami, Arg
	04	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.036							0.25	0.36	0.68	G	< 1"	0.32	54	0.24	0.43	
	05	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.036							0.25	0.36	0.68	S	>1"	0.32	54	0.21	0.37	
	06	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.036							0.25	0.36	0.67	N		0.32	54	0.27	0.49	RLE/090-Lami, Arg
	07	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.036							0.25	0.36	0.67	G	< 1"	0.32	54	0.24	0.43	
	08	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.036							0.25	0.36	0.67	S	>1"	0.32	54	0.21	0.37	

007	00	1.000	0.118	0.118		0.764		AIR				A8-D	0.042							0.31	0.41	0.72	N		0.36	53	0.31	0.53	EE272/Clr
	01	1.000	0.118	0.118		0.764		AIR				A8-D	0.042							0.31	0.41	0.72	G	< 1"	0.36	53	0.27	0.46	
	04	1.000	0.118	0.118		0.764		AIR				A8-D	0.042							0.31	0.41	0.72	S	>1"	0.36	53	0.24	0.40	
	10	1.000	0.118	0.118		0.764		AIR				A8-D	0.022							0.31	0.27	0.65	N		0.36	53	0.21	0.47	EE366/Clr
	11	1.000	0.118	0.118		0.764		AIR				A8-D	0.022							0.31	0.27	0.65	G	< 1"	0.36	53	0.18	0.41	
	14	1.000	0.118	0.118		0.764		AIR				A8-D	0.022							0.31	0.27	0.65	S	>1"	0.36	53	0.16	0.36	
008	00	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.042							0.27	0.41	0.72	N		0.33	53	0.31	0.53	EE272/Clr, Arg
	01	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.042							0.27	0.41	0.72	G	< 1"	0.33	53	0.27	0.46	
	04	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.042							0.27	0.41	0.72	S	>1"	0.33	53	0.24	0.40	

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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 1	Spacer	Emissivity Surface 1	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 4	Emissivity Surface 5	Emissivity Surface 6	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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	10	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.022							0.26	0.27	0.65	N		0.33	53	0.20	0.47	EE366/Clr, Arg
	11	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.022							0.26	0.27	0.65	G	< 1"	0.33	53	0.18	0.41	
	14	1.000	0.118	0.118		0.764		ARG	90			A8-D	0.022							0.26	0.27	0.65	S	>1"	0.33	53	0.16	0.36	
009	00	1.000	0.197	0.197		0.607		AIR				A8-D	0.042							0.30	0.41	0.71	N		0.36	52	0.30	0.52	EE272/Clr
	01	1.000	0.197	0.197		0.607		AIR				A8-D	0.042							0.30	0.41	0.71	G	< 1"	0.36	52	0.27	0.45	
	04	1.000	0.197	0.197		0.607		AIR				A8-D	0.042							0.30	0.41	0.71	S	>1"	0.36	52	0.23	0.39	
	05	1.000	0.197	0.197		0.607		AIR				A8-D	0.022							0.29	0.27	0.64	N		0.36	52	0.21	0.47	EE366/Clr
	06	1.000	0.197	0.197		0.607		AIR				A8-D	0.022							0.29	0.27	0.64	G	< 1"	0.36	52	0.18	0.41	
	09	1.000	0.197	0.197		0.607		AIR				A8-D	0.022							0.29	0.27	0.64	S	>1"	0.36	52	0.16	0.35	
010	00	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.042							0.26	0.40	0.71	N		0.32	53	0.30	0.52	EE272/Clr, Arg
	01	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.042							0.26	0.40	0.71	G	< 1"	0.32	53	0.27	0.45	
	04	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.042							0.26	0.40	0.71	S	>1"	0.32	53	0.23	0.39	
	05	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.022							0.25	0.27	0.64	N		0.32	53	0.20	0.47	EE366/Clr, Arg
	06	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.022							0.25	0.27	0.64	G	< 1"	0.32	53	0.18	0.41	
	09	1.000	0.197	0.197		0.607		ARG	90			A8-D	0.022							0.25	0.27	0.64	S	>1"	0.32	53	0.16	0.35	
011	00	1.000	0.118	0.266		0.616		AIR				A8-D	0.042							0.30	0.41	0.70	N		0.35	53	0.31	0.51	EE272/030-Lami
	01	1.000	0.118	0.266		0.616		AIR				A8-D	0.042							0.30	0.41	0.70	G	< 1"	0.35	53	0.27	0.45	
	04	1.000	0.118	0.266		0.616		AIR				A8-D	0.042							0.30	0.41	0.70	S	>1"	0.35	53	0.24	0.39	
	05	1.000	0.118	0.315		0.567		AIR				A8-D	0.042							0.29	0.41	0.70	N		0.35	53	0.30	0.51	EE272/060-Lami
	06	1.000	0.118	0.315		0.567		AIR				A8-D	0.042							0.29	0.41	0.70	G	< 1"	0.35	53	0.27	0.45	
	09	1.000	0.118	0.315		0.567		AIR				A8-D	0.042							0.29	0.41	0.70	S	>1"	0.35	53	0.24	0.39	
	10	1.000	0.118	0.315		0.567		AIR				A8-D	0.042							0.29	0.41	0.70	N		0.35	53	0.30	0.51	EE272/090-Lami
	11	1.000	0.118	0.315		0.567		AIR				A8-D	0.042							0.29	0.41	0.70	G	< 1"	0.35	53	0.27	0.44	

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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 1	Spacer	Emissivity Surface 1	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 4	Emissivity Surface 5	Emissivity Surface 6	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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	14	1.000	0.118	0.315		0.567		AIR				A8-D	0.042							0.29	0.41	0.70	S	>1"	0.35	53	0.24	0.38	
	15	1.000	0.118	0.315		0.567		AIR				A8-D	0.022							0.29	0.27	0.63	N		0.35	53	0.21	0.46	EE366/030-Lami
	16	1.000	0.118	0.315		0.567		AIR				A8-D	0.022							0.29	0.27	0.63	G	< 1"	0.35	53	0.18	0.40	
	19	1.000	0.118	0.315		0.567		AIR				A8-D	0.022							0.29	0.27	0.63	S	>1"	0.35	53	0.16	0.35	
	20	1.000	0.118	0.266		0.616		AIR				A8-D	0.022							0.29	0.27	0.63	N		0.35	53	0.20	0.46	EE366/060-Lami
	21	1.000	0.118	0.266		0.616		AIR				A8-D	0.022							0.29	0.27	0.63	G	< 1"	0.35	53	0.18	0.40	
	24	1.000	0.118	0.266		0.616		AIR				A8-D	0.022							0.29	0.27	0.63	S	>1"	0.35	53	0.16	0.35	
	25	1.000	0.118	0.315		0.567		AIR				A8-D	0.022							0.29	0.27	0.63	N		0.35	53	0.20	0.46	EE366/090-Lami
	26	1.000	0.118	0.315		0.567		AIR				A8-D	0.022							0.29	0.27	0.63	G	< 1"	0.35	53	0.18	0.40	
	29	1.000	0.118	0.315		0.567		AIR				A8-D	0.022							0.29	0.27	0.63	S	>1"	0.35	53	0.16	0.34	
012	00	1.000	0.118	0.266		0.616		ARG	90			A8-D	0.042							0.25	0.41	0.70	N		0.32	54	0.30	0.51	EE272/030-Lami, Arg
	01	1.000	0.118	0.266		0.616		ARG	90			A8-D	0.042							0.25	0.41	0.70	G	< 1"	0.32	54	0.27	0.45	
	04	1.000	0.118	0.266		0.616		ARG	90			A8-D	0.042							0.25	0.41	0.70	S	>1"	0.32	54	0.24	0.39	
	05	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.042							0.25	0.41	0.70	N		0.32	54	0.30	0.51	EE272/060-Lami, Arg
	06	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.042							0.25	0.41	0.70	G	< 1"	0.32	54	0.27	0.45	
	09	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.042							0.25	0.41	0.70	S	>1"	0.32	54	0.24	0.39	
	10	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.042							0.25	0.41	0.70	N		0.32	54	0.30	0.51	EE272/090-Lami, Arg
	11	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.042							0.25	0.41	0.70	G	< 1"	0.32	54	0.27	0.44	
	14	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.042							0.25	0.41	0.70	S	>1"	0.32	54	0.23	0.38	
	15	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.022							0.24	0.27	0.63	N		0.32	54	0.20	0.46	EE366/030-Lami, Arg
	16	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.022							0.24	0.27	0.63	G	< 1"	0.32	54	0.18	0.40	
	19	1.000	0.118	0.315		0.567		ARG	90			A8-D	0.022							0.24	0.27	0.63	S	>1"	0.32	54	0.16	0.35	
	20	1.000	0.118	0.266		0.616		ARG	90			A8-D	0.022							0.25	0.27	0.63	N		0.32	54	0.20	0.46	EE366/060-Lami, Arg

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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 1	Spacer	Emissivity Surface 1	Emissivity Surface 2	Emissivity Surface 3	Emissivity Surface 4	Emissivity Surface 5	Emissivity Surface 6	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
21	1.000	0.118	0.266		0.616			ARG	90			A8-D	0.022							0.25	0.27	0.63	G	< 1"	0.32	54	0.18	0.40	
24	1.000	0.118	0.266		0.616			ARG	90			A8-D	0.022							0.25	0.27	0.63	S	>1"	0.32	54	0.16	0.35	
25	1.000	0.118	0.315		0.567			ARG	90			A8-D	0.022							0.24	0.27	0.63	N		0.32	54	0.20	0.46	EE366/090-Lami, Arg
26	1.000	0.118	0.315		0.567			ARG	90			A8-D	0.022							0.24	0.27	0.63	G	< 1"	0.32	54	0.18	0.40	
29	1.000	0.118	0.315		0.567			ARG	90			A8-D	0.022							0.24	0.27	0.63	S	>1"	0.32	54	0.16	0.34	

Comments : Patio Door with vinyl frame and sashes.
 Aluminum reinforcements in all members of panel except the lock stile. Steel reinforcement in lock stile.
 ARG - Argon with Single Probe filling method.
 A8-D - Exposed corrugated aluminum spacer with butyl - dual sealed.
 N - Products with no internal grids.
 G (Grid Size: <1") - Products with 0.188" x 0.802" size internal grids.
 S - Products with 1.121" size simulated divided lites.
 Low-e: 0.036 - Acclimate RLE 70/36 (Guardian); 0.042 - LoE²-272 (Cardinal IG); 0.022 - LoE³-366 (Cardinal IG)
 Lami: 0.266" laminate - [3mm - 0.030" Solutia PVB - 3mm]; 0.315" laminate - [3mm - 0.060" Solutia PVB - 3mm]; 0.315" laminate - [3mm - 0.090" Solutia PVB - 3mm]

Revision History: ETC-07-738-19092.1 - Options 007 - 012 were added.

U-factor: Thermal Transmittance through the specimen	VT: Visible Transmittance
SHGC: Solar Heat Gain Coefficient	CR: Condensation Resistance

Specialty Products

Series 5400 Vinyl Patio Door

Report Number: ETC-07-738-19092.1

	No Dividers	Divider <1"	Divider >1"
SHGC0	0.005	0.009	0.011
SHGC1	0.737	0.646	0.560
VT0	0.000	0.000	0.000
VT1	0.732	0.637	0.549

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

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

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

Modeling Assumptions

1. Patio door with aluminum reinforcements in meeting stiles (Group Leader) are grouped with the patio door with steel reinforcements in meeting stiles.
2. Grouping Performed: 1) Center-of-Glazing

Product Description

Series 5400 Vinyl Patio Door

Report Number: ETC-07-738-19092.1

Frame:

Size (mm)	2000 x 2000
Material	Vinyl - Rigid
Glazing Method	Exterior Glazed
Glazing Sealant	Silicone

Sash (1):

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

Sash (2):

Operation Type	
Material	
Glazing Method	
Glazing Sealant	

Reinforcement Material & Locations:

Aluminum reinforcements in all members of panel except the lock stile. Steel reinforcement in lock stile.

Weatherstripping Type and Locations:

Fin pile weatherstripping in all members of panel.

Others:

ARG - Argon with Single Probe filling method.

A8-D - Exposed corrugated aluminum spacer with butyl - dual sealed.

Low-e: 0.036 - Acclimate RLE 70/36 (Guardian); 0.042 - LoE²-272 (Cardinal IG); 0.022 - LoE³-366 (Cardinal IG)

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

Report Number: ETC-07-738-19092.1

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.

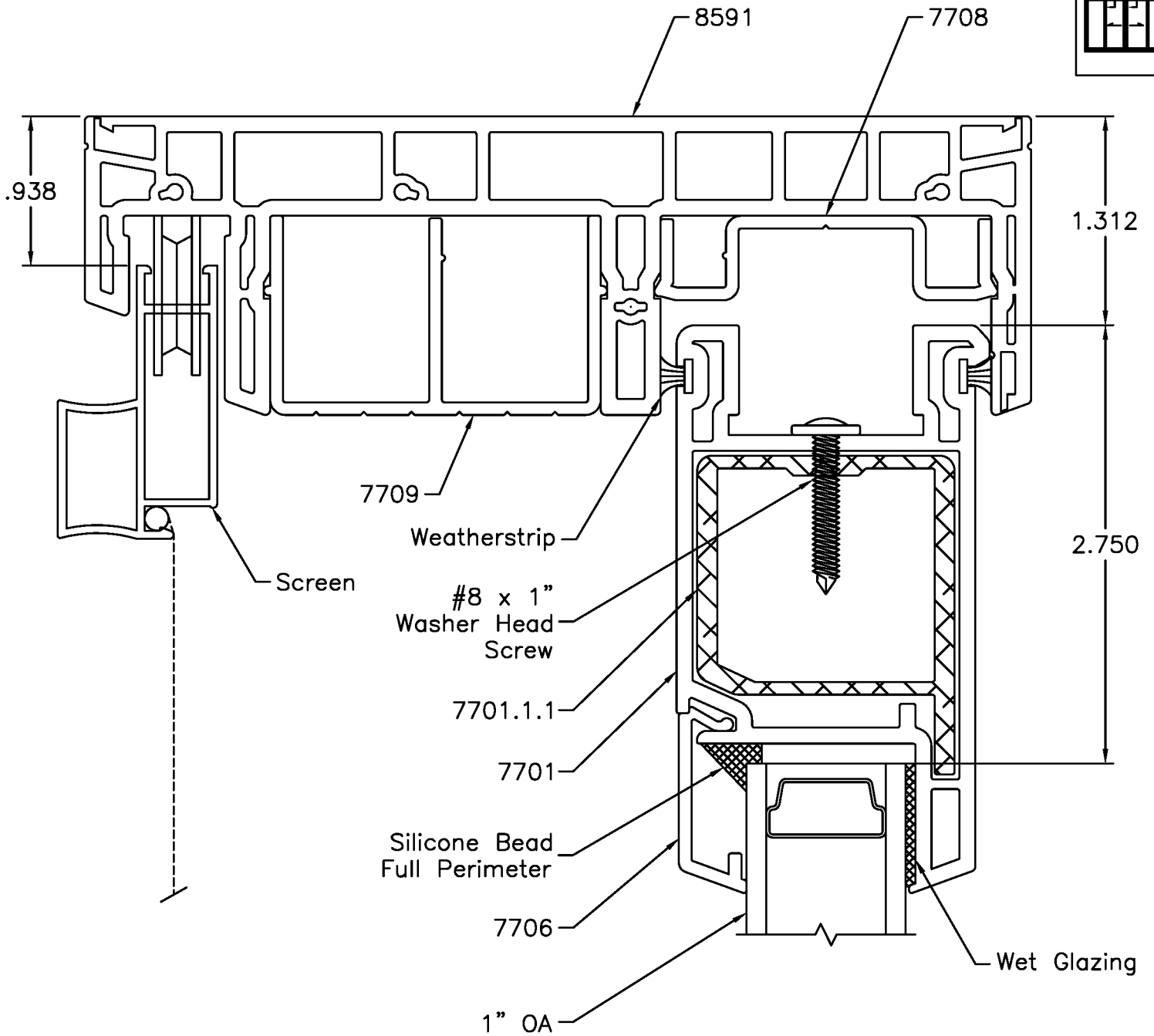
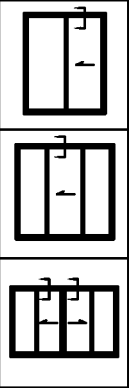
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FOR ETC LABORATORIES

Michael Cooper
Simulation Technician, NFRC Certified Simulator
Thermal Simulation Department

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



HEAD

VERTICAL SECTION
 ALUMINUM REINFORCEMENT
 PANEL - HEAD
 (DIE 8591 - SHOWN
 DIE 8593 - 1" NAILFIN SETBACK
 DIE 8594 - 1-3/8" NAILFIN SETBACK)

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NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED

DATE: 1/16/04

TYP. WALL:

SCALE: 1=1

DESIGNED BY: K.T.

AREA:

DRAFTED BY: RS

WT./FT.:

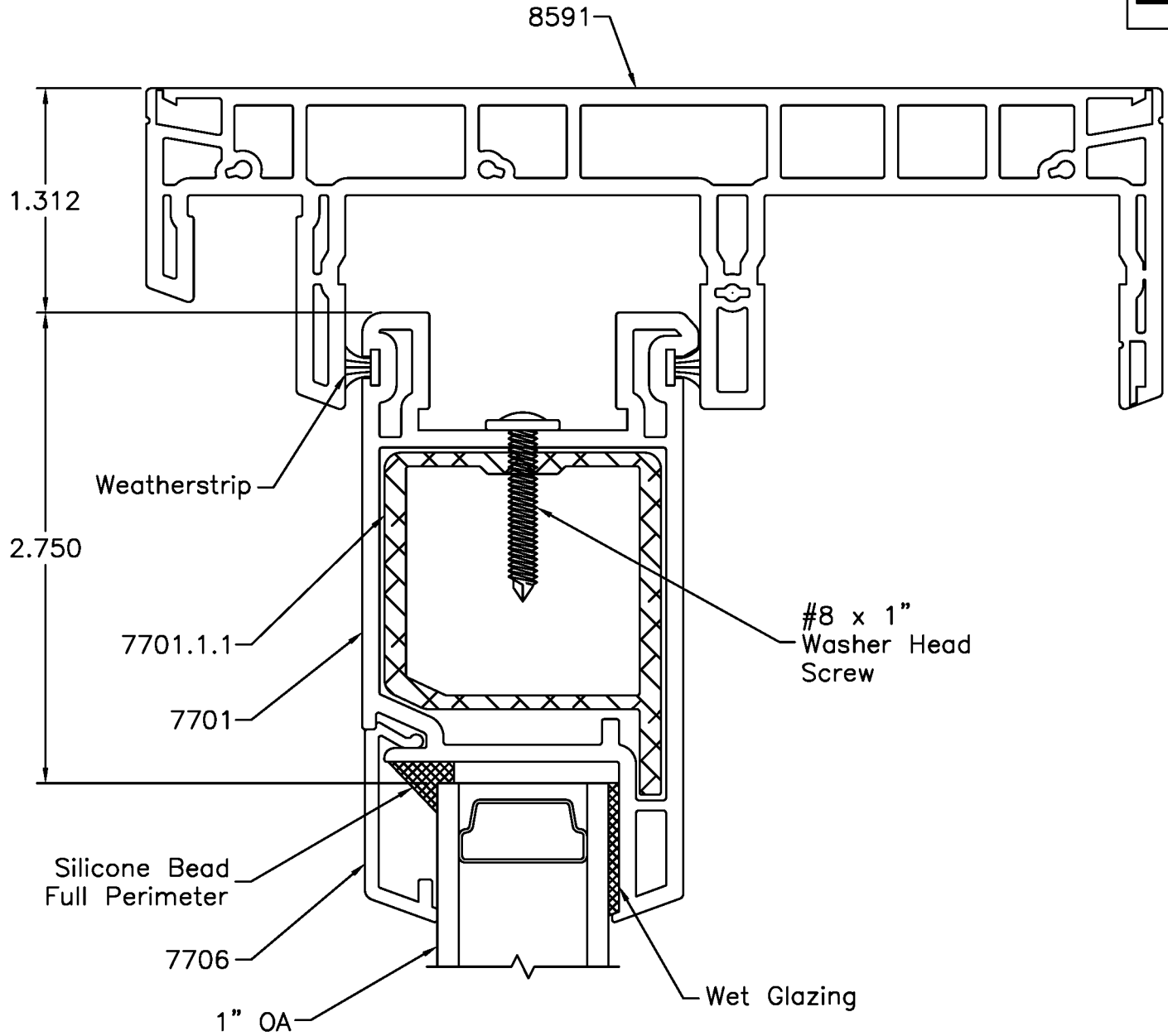
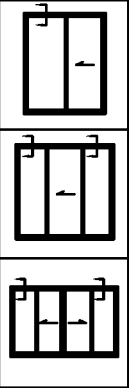
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SLIDING PATIO DOOR
 5400 SERIES
 DETAIL DRAWING



HEAD

VERTICAL SECTION
 ALUMINUM REINFORCEMENT
 FIXED PANEL – HEAD
 (DIE 8591 – SHOWN
 DIE 8593 – 1" NAILFIN SETBACK
 DIE 8594 – 1-3/8" NAILFIN SETBACK)

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DATE: 1/16/04

TYP. WALL:

SCALE: 1=1

DESIGNED BY: K.T.

AREA:

DRAFTED BY: RS

WT./FT.:

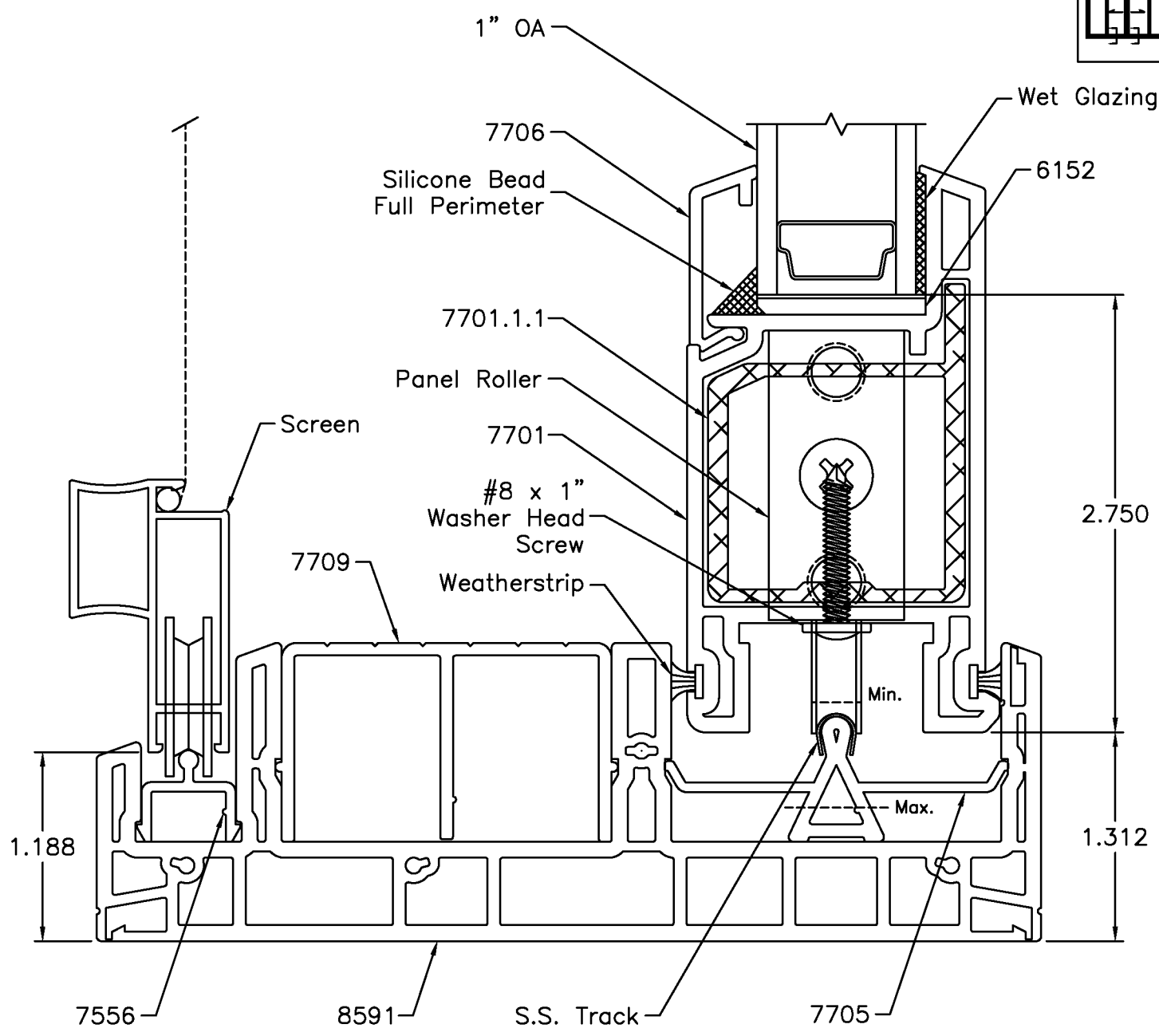
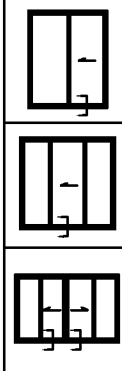
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SLIDING PATIO DOOR
 5400 SERIES
 DETAIL DRAWING



SILL

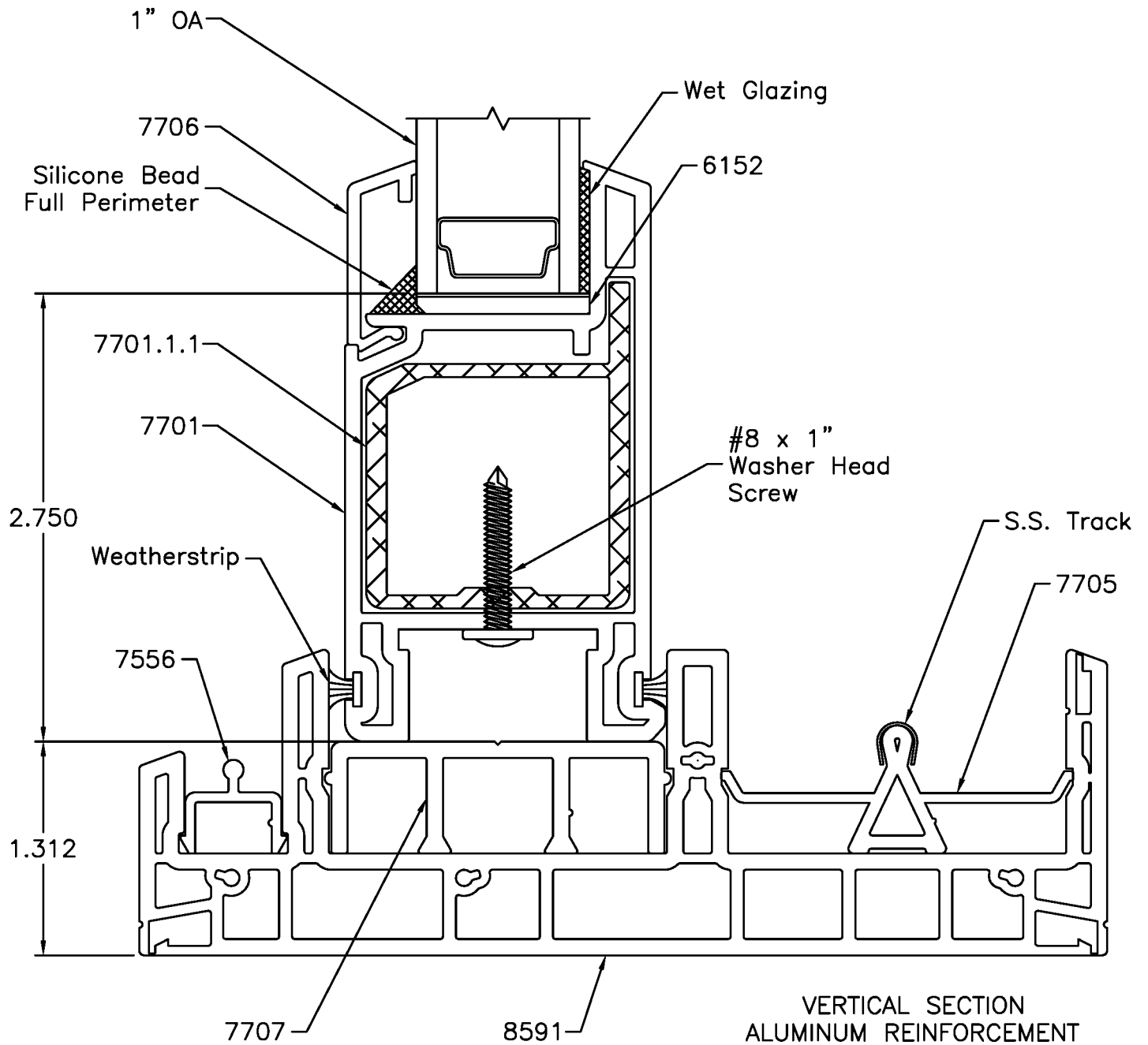
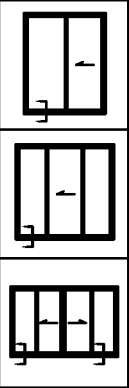
VERTICAL SECTION
 ALUMINUM REINFORCEMENT
 PANEL - SILL
 (DIE 8591 - SHOWN
 DIE 8593 - 1" NAILFIN SETBACK
 DIE 8594 - 1-3/8" NAILFIN SETBACK)

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SCALE: 1=1	DESIGNED BY: K.T.
AREA:	DRAFTED BY: RS
WT./FT.:	FILE NAME: 545041
DWG. NAME:	54504.1



**SLIDING PATIO DOOR
 5400 SERIES
 DETAIL DRAWING**



SILL

VERTICAL SECTION
 ALUMINUM REINFORCEMENT
 FIXED PANEL - SILL
 (DIE 8591 - SHOWN
 DIE 8593 - 1" NAILFIN SETBACK
 DIE 8594 - 1-3/8" NAILFIN SETBACK)

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NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED

DATE: 1/16/04

TYP. WALL:

SCALE: 1=1

DESIGNED BY: K.T.

AREA:

DRAFTED BY: RS

WT./FT.:

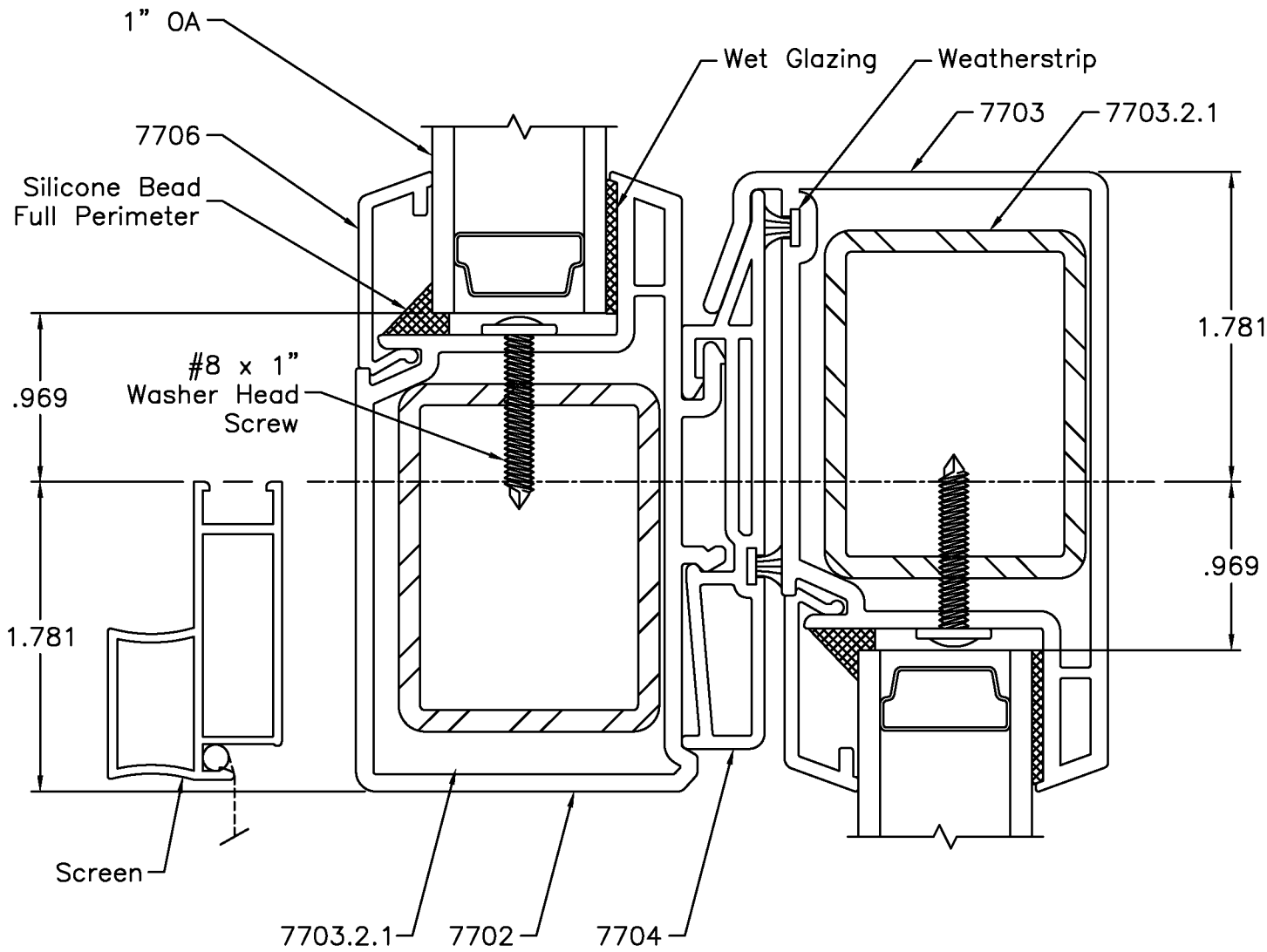
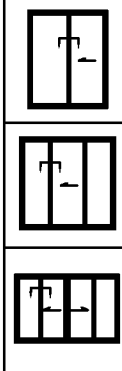
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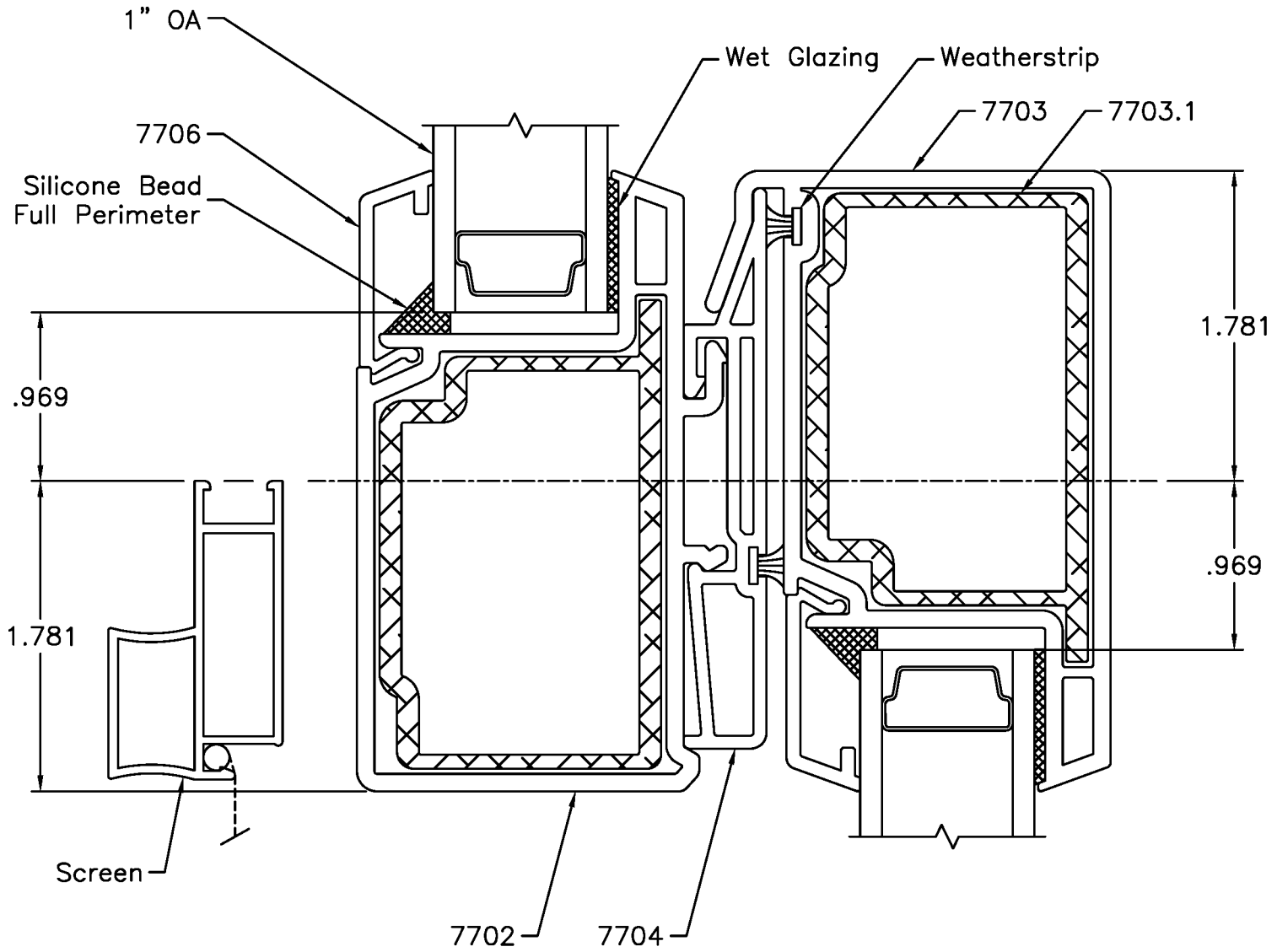
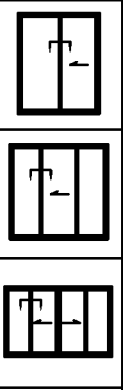
SLIDING PATIO DOOR
 5400 SERIES
 DETAIL DRAWING



INTERLOCK

**HORIZONTAL SECTION
STEEL REINFORCEMENT
INTERLOCK**

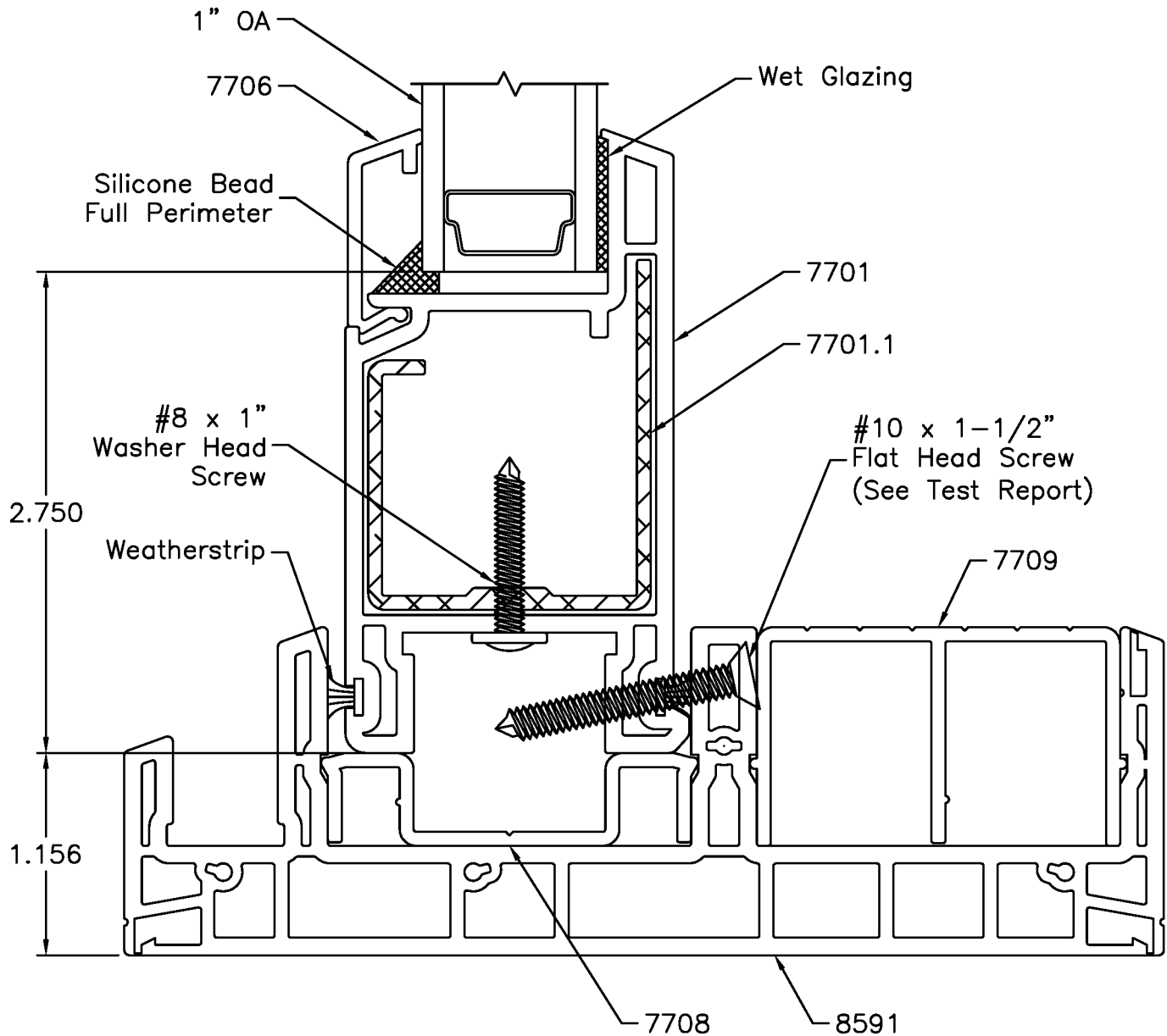
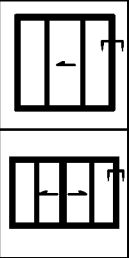
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A	Dwg. No. was 54504831	10/25/99	K.T.	DATE: 7/20/99	TYP. WALL:
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				DWG. NAME:	54504.8.1



INTERLOCK

HORIZONTAL SECTION
ALUMINUM REINFORCEMENT
INTERLOCK

	<p>SLIDING PATIO DOOR 5400 SERIES DETAIL DRAWING</p>	<p>This document contains confidential and proprietary information. Do not copy or disclose without consent of Mikron Ind. Inc. ©1998 Mikron Ind. Inc. All rights reserved.</p>		<p>NOTE: .015 TYPICAL CORNER RADIUS UNLESS OTHERWISE SPECIFIED</p>	
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JAMB

HORIZONTAL SECTION
 ALUMINUM REINFORCEMENT
 FIXED PANEL - JAMB
 (DIE 8591 - SHOWN
 DIE 8593 - 1" NAILFIN SETBACK
 DIE 8594 - 1-3/8" NAILFIN SETBACK)

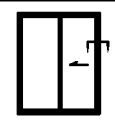
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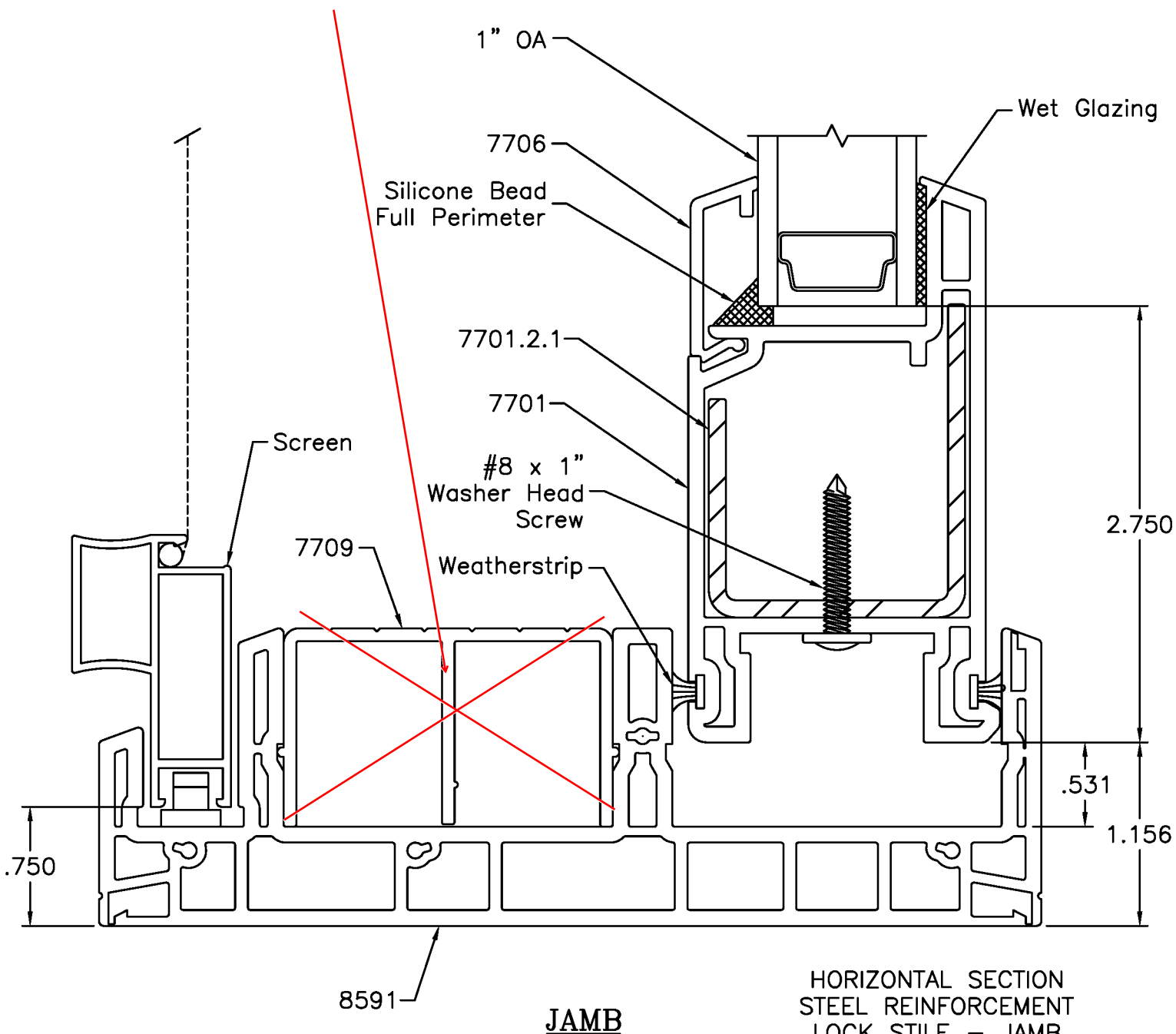
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AREA:	DRAFTED BY: RS
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SLIDING PATIO DOOR
 5400 SERIES
 DETAIL DRAWING



ETC Labs Notes - # 7709, Threshold, wasn't simulated in inner jamb model.



HORIZONTAL SECTION
 STEEL REINFORCEMENT
 LOCK STILE - JAMB
 (DIE 8591 - SHOWN
 DIE 8593 - 1" NAILFIN SETBACK
 DIE 8594 - 1-3/8" NAILFIN SETBACK)

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