

Results Comparison Versions **W 7.8.55 / T 7.8.55** to 7.8.80 / T 7.8.80
Whole Products

5/9/2025 -- ran W7.8.80 / T 7.8.80
10/05/2022 -- calculated W 7.8.57/ T 7.8.57

Product Ref.	Product Type	Material: Frame / Spacer	Glazing System	Size		U (W/m2-K)				SHGC				VT				CR			
				Width (mm)	Height (mm)	W7.8.57 / T7.8.57	W7.8.80 / T7.8.80	diff (if >=)	Diff %	W7.8.57 / T7.8.57	W7.8.80 / T7.8.80	diff	Diff %	W7.8.57 / T7.8.57	W7.8.80 / T7.8.80	diff	Diff %	W7.8.57 / T7.8.57	W7.8.80 / T7.8.80	diff	Diff %
Kawneer 1600 S1	Curtain Wall	TI AL / AL	Clr-6_Air_Clr-6	2032.0	2032.0	3.5609	3.560851	0.0000	0.00%	0.58204	0.582036	0.0000	0.00%	0.6392	0.63921	0.0000	0.00%	28.4451	28.445076	0.0000	0.00%
CW3	Curtain Wall	TI AL (e=0.2) / AL	Clr-6_Air_Clr-6	2032.0	2032.0	3.1279	3.127928	0.0000	0.00%	0.6074	0.607401	0.0000	0.00%	0.6724	0.672392	0.0000	0.00%	16.0637	16.063749	0.0000	0.00%
		TI AL (e=0.9) / AL		2032.0	2032.0	3.4394	3.439398	0.0000	0.00%	0.61019	0.610191	0.0000	0.00%	0.6724	0.672392	0.0000	0.00%	21.7334	21.733385	0.0000	0.00%
Fiberglass	Casement	Fiberglass / AL	Clr-6_Air_LowE 272-6	600.0	1500.0	1.9738	1.973812	0.0000	0.00%	0.33819	0.338189	0.0000	0.00%	0.4833	0.483322	0.0000	0.00%	48.1373	48.137314	0.0000	0.00%
PFM	Casement	Wood / AL	Clr-5-Air-Clr-5	914.4	1219.2	2.6837	2.683719	0.0000	0.00%	0.62917	0.629168	0.0000	0.00%	0.6820	0.682002	0.0000	0.00%	39.7342	39.734173	0.0000	0.00%
			Lowe179-5_Air_Clr5	914.4	1219.2	2.0177	2.017673	0.0000	0.00%	0.52997	0.529966	0.0000	0.00%	0.6541	0.654087	0.0000	0.00%	46.8020	46.801956	0.0000	0.00%
PVC	Casement	PVC / AL Swiggle	LowE_037-Air-Clr	609.6	1219.2	1.7903	1.790277	0.0000	0.00%	0.25484	0.254844	0.0000	0.00%	0.3818	0.38176	0.0000	0.00%	56.5512	56.551517	0.0000	0.00%
Velux - FS87	Skylight	AL Clad Wood / SST	Lowe270-3_Ar_Clr-3	547.9	1314.4	3.0925	3.09251	0.0000	0.00%	0.35236	0.352361	0.0000	0.00%	0.6653	0.665323	0.0000	0.00%	48.8573	48.857265	0.0000	0.00%
TRR01	Fixed	TB AL / AL	CmftE2-3_Air_HMS C75_Air_CmftE2-3	1016.0	1016.0	1.8934	1.89341	0.0000	0.00%	0.27523	0.275227	0.0000	0.00%	0.4144	0.414402	0.0000	0.00%	40.4424	40.442394	0.0000	0.00%
TRR97	Fixed	AL Clad Wood / Galv. Steel	LowE272-5_Air_Clr-5	1219.2	1219.2	1.9521	1.952136	0.0000	0.00%	0.34645	0.346445	0.0000	0.00%	0.5961	0.596057	0.0000	0.00%	47.1631	47.162865	0.0000	0.00%
TRR99	Hor. Slider	AL / Galv. Steel	Clr-3_Air_HMS C75_Air_S5 00CL-3	1524.0	914.4	2.7606	2.760558	0.0000	0.00%	0.31497	0.314969	0.0000	0.00%	0.4999	0.499902	0.0000	0.00%	14.5694	14.569366	0.0000	0.00%
Max Diff								0.0000	0.00%			0.000	0.00%			0.000	0.00%			0.0000	0.00%

Note: TRR99: Made slight geometry adjustment to 7.7.07 THERM files due to new error about bad points which may have affected the U-factor slightly
Recalculated TRR99 window with new geometry for both 7.4 and 7.7

Note: Nominal Glass thickness was used when importing the glazing systems into the THERM models

NOTE: Glazing systems recalculated, frame files calculated using BC condition #2

10/04/2022 -- ran W7.8.55 / T 7.8.55

5/229/2025 -- ran W7.8.80 / T 7.8.80

												Uval (W/m2K)		U_edge (W/m2K)		Pfd		Ucenter (W/m2K)	
W7.8.57 - T7.8.57						W7.8.80 - T7.8.80						DIFF	Diff (%)	DIFF	Diff (%)	DIFF	Diff (%)	DIFF	Diff (%)
ID	Name	Uval	U_edge	Pfd	Ucenter	Abs	ID	Uval	U_edge	Pfd	Ucenter	Abs							
11	1600S1_hd.thm	7.2271	2.8612	67.3618	2.6895	0.3	11	7.227078	2.861175	67.361816	2.689528	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
12	1600S1_jb.thm	7.2172	2.8583	67.3613	2.6895	0.3	12	7.217207	2.858271	67.361328	2.689528	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
13	1600S1_mr.thm	9.8051	2.7927	71.2339	2.6895	0.3	13	9.805064	2.792671	71.233887	2.689528	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
14	1600S1_si.thm	7.2064	2.8602	67.3613	2.6895	0.3	14	7.206437	2.860169	67.361328	2.689528	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
21	CW3_hd_02.thm	5.2570	3.0925	59.5562	2.6812	0.3	21	5.256988	3.092469	59.556183	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
22	CW3_jb_02.thm	5.2451	3.0906	59.5560	2.6812	0.3	22	5.245121	3.090606	59.55603	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
23	CW3_mr_02.thm	6.9389	3.0848	68.3123	2.6812	0.3	23	6.938879	3.084777	68.312256	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
24	CW3_si_02.thm	5.2678	3.0974	57.7775	2.6812	0.3	24	5.267759	3.097395	57.777527	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
25	CW3_hd_09.thm	7.5210	2.9006	59.5562	2.6812	0.3	25	7.521025	2.900585	59.556183	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
26	CW3_jb_09.thm	7.5152	2.9061	59.5560	2.6812	0.3	26	7.515224	2.906112	59.55603	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
27	CW3_mr_09.thm	9.5714	2.9083	68.3123	2.6812	0.3	27	9.571444	2.908318	68.312256	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
28	CW3_si_09.thm	7.6276	2.9064	57.7775	2.6812	0.3	28	7.62761	2.9064	57.777527	2.681182	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
31	Fiberglass_hd.thm	2.1856	2.3517	70.6374	1.6779	0.3	31	2.185568	2.351746	70.637405	1.677865	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
32	Fiberglass_jb.thm	2.1269	2.3503	70.6362	1.6779	0.3	32	2.126909	2.350252	70.63623	1.677865	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
33	Fiberglass_si.thm	2.1839	2.3515	70.6362	1.6779	0.3	33	2.183917	2.351504	70.63623	1.677865	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
41	PFM01_hd.thm	2.2066	3.0128	42.8762	2.7143	0.3	41	2.20664	3.012841	42.87616	2.714314	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
42	PFM01_jb.thm	2.2044	3.0133	42.8762	2.7143	0.3	42	2.20444	3.013326	42.876221	2.714314	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
43	PFM01_si.thm	2.2082	3.0134	42.8762	2.7143	0.3	43	2.20822	3.013447	42.876221	2.714314	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
44	PFM02_hd.thm	2.1837	2.4189	42.8762	1.8537	0.3	44	2.183683	2.418897	42.87616	1.853738	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
45	PFM02_jb.thm	2.1814	2.4193	42.8762	1.8537	0.3	45	2.181394	2.419342	42.876221	1.853738	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
46	PFM02_si.thm	2.1853	2.4195	42.8762	1.8537	0.3	46	2.185318	2.419544	42.876221	1.853738	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
51	PVC_hd.thm	1.7604	2.0213	72.3572	1.7234	0.3	51	1.7604	2.021321	72.357208	1.723423	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
52	PVC_jb.thm	1.6976	2.0425	89.8070	1.7234	0.3	52	1.697629	2.042479	89.807007	1.723423	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
53	PVC_si.thm	1.7553	2.0209	72.3572	1.7234	0.3	53	1.75528	2.020916	72.357193	1.723423	0.3	0.0000	0.000%	0.0000	-0.002%	0.0000	0.00%	0.00
61	FS95_hd_75_c_20.thm	24.3648	2.4164	8.6038	2.0149	0.3	61	24.36482	2.416384	8.60376	2.014867	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
62	FS95_jb_75_c_20.thm	24.4126	2.4153	8.6006	2.0149	0.3	62	24.41263	2.415304	8.600586	2.014867	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
63	FS95_si_75_c_20.thm	11.0870	2.1294	19.0752	2.0149	0.3	63	11.08703	2.129416	19.075211	2.014867	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
71	TRR01_hd.thm	3.5954	1.7522	61.0357	1.2655	0.3	71	3.595419	1.75223	61.035721	1.265482	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
72	TRR01_jb.thm	3.6163	1.7529	61.0358	1.2655	0.3	72	3.616276	1.752917	61.035828	1.265482	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
73	TRR01_si.thm	3.5950	1.7522	61.0358	1.2655	0.3	73	3.594953	1.75215	61.035828	1.265482	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
81	TRR97_hd.thm	2.5004	2.3607	50.0137	1.7212	0.3	81	2.500365	2.36067	50.013748	1.721165	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
82	TRR97_jb.thm	2.4994	2.3563	50.0138	1.7212	0.3	82	2.499379	2.356269	50.013779	1.721165	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
83	TRR97_si.thm	2.4840	2.3522	50.0138	1.7212	0.3	83	2.484263	2.352594	50.012772	1.721165	0.3	0.0000	0.000%	-0.0004	-0.017%	0.0010	0.00%	0.00
91	TRR99_hf.thm	9.3419	2.1486	37.6134	1.7325	0.3	91	9.34186	2.148647	37.613419	1.732537	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
92	TRR99_hv.thm	4.5601	2.5560	37.7003	1.7325	0.3	92	4.560099	2.555985	37.700272	1.732537	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
93	TRR99_jf.thm	10.2190	2.1366	22.2366	1.7325	0.3	93	10.21902	2.136627	22.236633	1.732537	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
94	TRR99_jv.thm	4.4420	2.5655	36.2182	1.7325	0.3	94	4.442008	2.565494	36.218216	1.732537	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
95	TRR99_mr.thm	9.7083	2.3470	40.8278	1.7325	0.3	95	9.708306	2.346953	40.82782	1.732537	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
96	TRR99_sf.thm	12.5867	2.2419	37.5949	1.7325	0.3	96	12.58672	2.241881	37.594925	1.732537	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00
97	TRR99_sv.thm	4.5524	2.55643	36.589401	1.732537	0.3	97	4.552388	2.55643	36.589401	1.732537	0.3	0.0000	0.000%	0.0000	0.000%	0.0000	0.00%	0.00

Max

-	0.00%	0.000	0.02%	0.001	0.00%	-	0.00%
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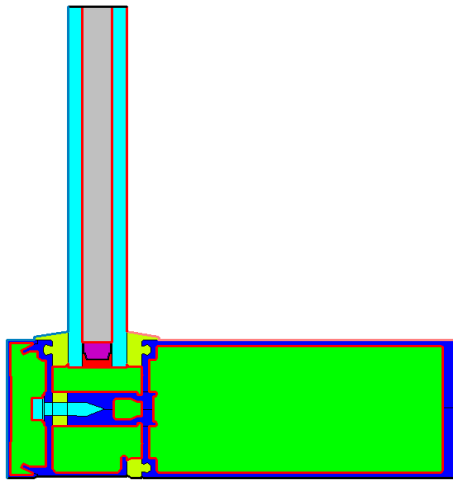
Results Comparison WINDOW Version 7.8.57 to 7.8.80
Glazing Systems

5/9/2025 -- ran W7.8.80 / T 7.8.80
10/05/2022 -- calculated 7.8.57

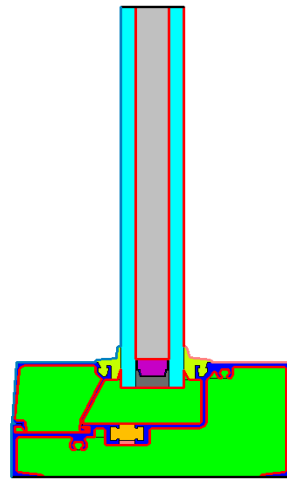
Results are identical between the two versions

GlzSys ID	IG Name	Glass Layers	Glass	emiss.	Glass / Gap / Glass layers	Glass / Gap / Glass (mm)	Gas	U-factor (W/m ² -K)				SHGC				VT			
								W7.8.57	W7.8.80	DIFF	DIFF (%)	W7.8.57	W7.8.80	DIFF	DIFF (%)	W7.8.57	W7.8.80	DIFF	DIFF (%)
1	Kawneer IGU	2	Un-Coated	0.84	5012/Air/5012	6/12.7/6	Air	2.6895	2.689528	0.0000	0.00%	0.7030	0.702964	0.0000	0.00%	0.7911	0.791102	0.0000	0.00%
2	No3	2	Un-Coated	0.84	103/Air/103	6/13.4/6	Air	2.6812	2.681182	0.0000	0.00%	0.7044	0.704438	0.0000	0.00%	0.7861	0.786104	0.0000	0.00%
3	Clr-Air-LowE_042	2	Coated #3	0.042	2004/Air/2014	6/13.4/6	Air	1.6779	1.677865	0.0000	0.00%	0.4778	0.47784	0.0000	0.00%	0.6979	0.697898	0.0000	0.00%
4	PFM01	2	Un-Coated	0.84	2003/Air/2003	5/16.5/5	Air	2.7143	2.714314	0.0000	0.00%	0.7426	0.742617	0.0000	0.00%	0.8095	0.809516	0.0000	0.00%
5	PFM02	2	Coated #2	0.11	2186/Air/2003	5/16.5/5	Air	1.8537	1.853738	0.0000	0.00%	0.6247	0.624722	0.0000	0.00%	0.7764	0.776382	0.0000	0.00%
6	LowE_037-Air-Clr	2	Coated #2	0.037	917/Air/102	3/15.9/3	Air	1.7234	1.723423	0.0000	0.00%	0.3980	0.397977	0.0000	0.00%	0.6141	0.614123	0.0000	0.00%
7	Velux FS87 Type 75	2	Coated #2	0.037	2026/Argon 95	3/9.9/3	Argon 95	2.0149	2.014867	0.0000	0.00%	0.3706	0.370629	0.0000	0.00%	0.7017	0.701664	0.0000	0.00%
8	TRR01	3	Coated #2,#3,#5	0.204/0.055/0.204	0907/Air/1510/Air/907	3/8.6/.1/8.6/3	Air	1.2655	1.265482	0.0000	0.00%	0.3415	0.341514	0.0000	0.00%	0.5353	0.535309	0.0000	0.00%
9	TRR97	2	Coated #2	0.042	2013/Air/2003	5/15.9/5	Air	1.7212	1.721165	0.0000	0.00%	0.4073	0.407306	0.0000	0.00%	0.7074	0.707364	0.0000	0.00%
10	TRR99	3	Coated #3,#5	0.055, 0.215	5009/Air/1510/Air/5242	3/6.2/0.1/6.2/3	Air	1.7325	1.732537	0.0000	0.00%	0.3562	0.356202	0.0000	0.00%	0.5823	0.582346	0.0000	0.00%

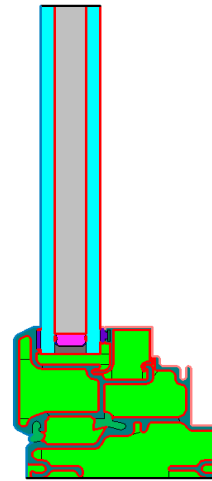
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	0.00%	0.00%	0.00%
Max Diff	0.00%	0.00%	0.00%



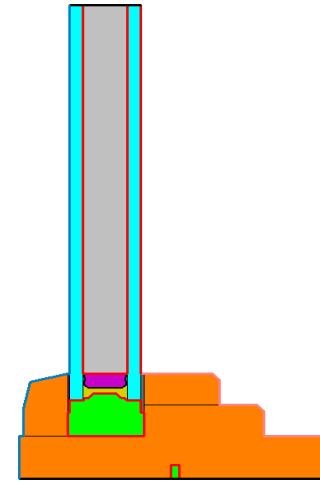
Kawneer 1600 S1



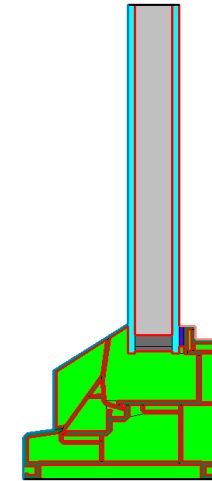
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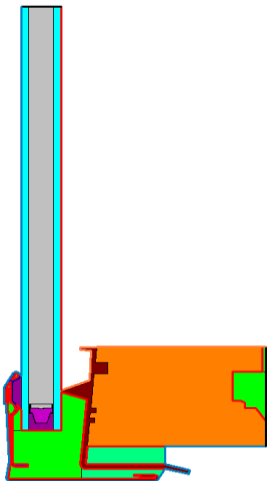
Fiberglass



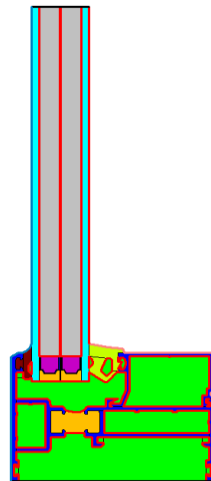
PFM



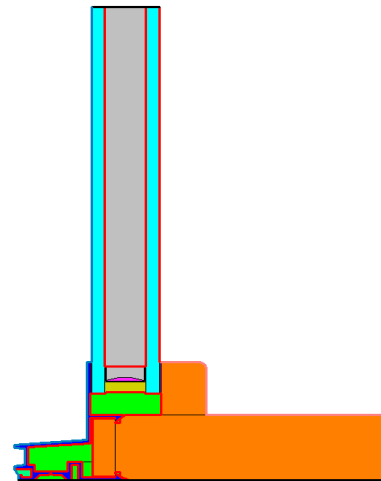
PVC



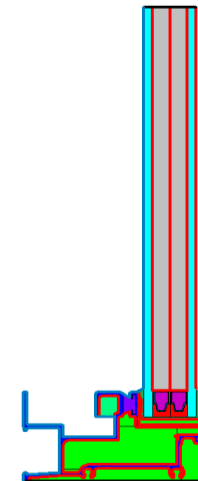
Skylight



TRR01



TRR97



TRR99