Results Comparison Versions W **6.3.74 / T 6.3.46** to W **7.2.34 / T 7.2.5**

Whole Products

For these comparisons, am not rerunning W6.3.74/T6.3.46 -- those results are being carried forward from earlier spreadsheets
3/11/2014 -- reran the skylight example in W6.3.74/T6.3.46 -- the boundary conditions were not correct for the 6.3 mode
3/13/2014 -- ran W 7.2.34/T7.2.5

Product Ref.	Product Type	Material: Frame / Spacer	Glazing System	Size		U (W/m2-K)				SHGC				VT				CR			
				Width (mm)	Height (mm)	W6.3.74 / T6.3.46	W7.2.34 / T7.2.5	diff (if >= 0.0005)	Diff %	W6.3.74 / T6.3.46	W7.2.34 / T7.2.5	diff	Diff %	W6.3.74 / T6.3.46	W7.2.34 / T7.2.5	diff	Diff %	W6.3.74 / T6.3.46	W7.2.34 / T7.2.5	diff	Diff %
Kawneer 1600 S1	Curtain Wall	TI AL / AL	Clr-6_Air_Clr-6	2032.0	2032.0	3.478143	3.47821	0.00000	0.00%	0.600683	0.601028	0.000	0.00%	0.663779	0.663779	0.000	0.00%	30.135283	30.135292	0.00000	0.0%
CW3	Curtain Wall	TI AL (e=0.2) / AL	Clr-6_Air_Clr-6	2032.0	2032.0	3.124932	3.125017	0.00000	0.00%	0.607153	0.607444	0.000	0.00%	0.672392	0.672392	0.000	0.00%	16.067343	16.06732	0.00000	0.0%
		TI AL (e=0.9) / AL		2032.0	2032.0	3.436352	3.436432	0.00000	0.00%	0.609915	0.610233	0.000	0.00%	0.672392	0.672392	0.000	0.00%	21.737976	21.737921	0.00000	0.0%
Fiberglass	Casement	Fiberglass / AL	Clr-6_Air_LowE272-6	600.0	1500.0	1.958486	1.958565	0.00000	0.00%	0.337849	0.338038	0.000	0.00%	0.483322	0.483322	0.000	0.00%	48.107586	48.110527	0.00294	0.0%
PFM	Casement	Wood / AL	Clr-5-Air-Clr-5	914.4	1219.2	2.681077	2.681193	0.00000	0.00%	0.628992	0.629194	0.000	0.00%	0.682002	0.682002	0.000	0.00%	39.736256	39.735771	0.00000	0.0%
			Lowe179-5_Air_Clr5	914.4	1219.2	2.016142	2.016301	0.00000	0.00%	0.529815	0.529988	0.000	0.00%	0.654087	0.654087	0.000	0.00%	46.805111	46.80407	-0.00104	0.0%
PVC	Casement	PVC / AL Swiggle	LowE_037-Air-Clr	609.6	1219.2	1.791125	1.789654	-0.00147	-0.08%	0.254679	0.254821	0.000	0.00%	0.38176	0.38176	0.000	0.00%	56.484123	56.535278	0.05116	0.1%
Velux - FS87	Skylight	AL Clad Wood / SST	Lowe270-3_Ar_Clr-3	547.9	1314.4	3.092652	3.092985	0.00000	0.00%	0.352182	0.352361	0.000	0.00%	0.665323	0.665323	0.000	0.00%	48.477901	48.816311	0.33841	0.7%
TRR01	Fixed	TB AL / AL	CmftE2-3_Air_HMSC75_Air_CmftE2-3	1016.0	1016.0	1.893552	1.893569	0.00000	0.00%	0.274934	0.275213	0.000	0.00%	0.414402	0.414402	0.000	0.00%	40.440773	40.440514	0.00000	0.0%
TRR97	Fixed	AL Clad Wood / Galv. Steel	LowE272-5_Air_Clr-5	1219.2	1219.2	1.950714	1.95084	0.00000	0.00%	0.346274	0.346478	0.000	0.00%	0.596056	0.596056	0.000	0.00%	47.167542	47.165932	-0.00161	0.0%
TRR99	Hor. Slider	AL / Galv. Steel	Clr-3_Air_HMSC75_Air_S500CL-3	1524.0	914.4	2.760871	2.761641	0.00077	0.03%	0.314643	0.314926	0.000	0.00%	0.499896	0.499896	0.000	0.00%	14.593225	14.579475	-0.01375	-0.1%
Max Diff								**0.00147**	**0.08%**			**0.000**	**0.00%**			**0.000**	**0.00%**			**0.33841**	**0.70%**

Results Comparison WINDOW Version **6.3.74** to **7.2.34**

Glazing Systems

3/18/2013 -- recalculated the glazing systems for 6.3.74
3/11/2014 -- calculated 7.2.34

								U-factor (W/m^2-K)				SHGC				VT			
GlzSys ID	IG Name	Glass Layers	Glass	emiss.	Glass / Gap / Glass layers	Glass /Gap / Glass (mm)	Gas	**W6.3.74**	**W7.2.34**	DIFF	DIFF (%)	**W6.3.74**	**W7.2.34**	DIFF	DIFF (%)	**W6.3.74**	**W7.2.34**	DIFF	DIFF (%)
1	Kawneer IGU	2	Un-Coated	0.84	5012/Air/5012	6/12.7/6	Air	2.68437	2.684472	0.00010	0.00%	0.702753	0.70302	0.000	0.04%	0.791102	0.791102	0.000	0.00%
2	No3	2	Un-Coated	0.84	103/Air/103	6/13.4/6	Air	2.676728	2.67685	0.00012	0.00%	0.704217	0.704486	0.000	0.04%	0.786104	0.786104	0.000	0.00%
3	Clr-Air-LowE_042	2	Coated #3	0.042	2004/Air/2014	6/13.4/6	Air	1.675282	1.675531	0.00025	0.01%	0.477705	0.477874	0.000	0.04%	0.697898	0.697898	0.000	0.00%
4	PFM01	2	Un-Coated	0.84	2003/Air/2003	5/16.5/5	Air	2.710158	2.710317	0.00016	0.01%	0.742452	0.742648	0.000	0.03%	0.809516	0.809516	0.000	0.00%
5	PFM02	2	Coated #2	0.11	2186/Air/2003	5/16.5/5	Air	1.851415	1.851633	0.00022	0.01%	0.624587	0.624749	0.000	0.03%	0.776382	0.776382	0.000	0.00%
6	LowE_037-Air-Clr	2	Coated #2	0.037	917/Air/102	3/15.9/3	Air	1.723943	1.724177	0.00023	0.01%	0.397823	0.397958	0.000	0.03%	0.614123	0.614123	0.000	0.00%
7	Velux FS87 Type 75	2	Coated #2	0.037	2026/Argon 95	3/9.9/3	Argon 95	2.014314	2.014718	0.00040	0.02%	0.370448	0.370628	0.000	0.05%	0.701664	0.701664	0.000	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	1.265787	1.2658	0.00001	0.00%	0.341268	0.341497	0.000	0.07%	0.535309	0.535309	0.000	0.00%
9	TRR97	2	Coated #2	0.042	2013/Air/2003	5/15.9/5	Air	1.71907	1.719299	0.00023	0.01%	0.40714	0.407346	0.000	0.05%	0.707364	0.707364	0.000	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	1.734175	1.734194	0.00002	0.00%	0.35593	0.356151	0.000	0.06%	0.582346	0.582346	0.000	0.00%
											0.02%				0.07%				0.00%
											0.00%				0.03%				0.00%
								Max Diff			0.02%				0.07%				0.00%

Results Comparison THERM Version **6.3.46** to **7.2.5**

Frames

3/8/2013 --didn't rerun W6.3.74/T6.3.46 -- copied them from earlier spreadsheet

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

3/13/2014 -- ran W7.2.34/T7.2.5

													Uval (W/m2K)		U_edge (W/m2K)		Pfd		Ucenter (W/m2K)	
															No restriction on Diff		No restriction on Diff		No restriction on Diff	
		W6.3.74-T6.3.46					W7.2.34-T7.2.5						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	7.227095	2.861054	67.361938	2.68437	0.3	11	7.227058	2.861094	67.361938	2.684472	0.3	0.000	0.00%	-0.00004	0.00%	0.00000	0.00%	0.00010	0.00%
12	1600S1_jb.thm	7.216847	2.858146	67.362305	2.68437	0.3	12	7.216852	2.858187	67.362305	2.684472	0.3	0.000	0.00%	-0.00004	0.00%	0.00000	0.00%	0.00010	0.00%
13	1600S1_mr.thm	9.803534	2.792591	71.24585	2.68437	0.3	13	9.803463	2.792591	71.24585	2.684472	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00010	0.00%
14	1600S1_si.thm	7.206162	2.859641	67.362305	2.68437	0.3	14	7.206167	2.859721	67.362305	2.684472	0.3	0.000	0.00%	-0.00008	0.00%	0.00000	0.00%	0.00010	0.00%
21	CW3_hd_02.thm	5.255823	3.092227	59.556229	2.676728	0.3	21	5.255819	3.092308	59.556229	2.67685	0.3	0.000	0.00%	-0.00008	0.00%	0.00000	0.00%	0.00012	0.00%
22	CW3_jb_02.thm	5.244593	3.09041	59.556152	2.676728	0.3	22	5.244589	3.09045	59.556152	2.67685	0.3	0.000	0.00%	-0.00004	0.00%	0.00000	0.00%	0.00012	0.00%
23	CW3_mr_02.thm	6.938465	3.084575	68.312256	2.676728	0.3	23	6.938502	3.084615	68.312256	2.67685	0.3	0.000	0.00%	-0.00004	0.00%	0.00000	0.00%	0.00012	0.00%
24	CW3_si_02.thm	5.267757	3.097234	57.777588	2.676728	0.3	24	5.267758	3.097275	57.777588	2.67685	0.3	0.000	0.00%	-0.00004	0.00%	0.00000	0.00%	0.00012	0.00%
25	CW3_hd_09.thm	7.51874	2.900383	59.556229	2.676728	0.3	25	7.518745	2.900424	59.556229	2.67685	0.3	0.000	0.00%	-0.00004	0.00%	0.00000	0.00%	0.00012	0.00%
26	CW3_jb_09.thm	7.514149	2.905956	59.556152	2.676728	0.3	26	7.514149	2.905956	59.556152	2.67685	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00012	0.00%
27	CW3_mr_09.thm	9.571233	2.908197	68.312256	2.676728	0.3	27	9.571233	2.908197	68.312256	2.67685	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00012	0.00%
28	CW3_si_09.thm	7.6276	2.906239	57.777588	2.676728	0.3	28	7.627601	2.906279	57.777588	2.67685	0.3	0.000	0.00%	-0.00004	0.00%	0.00000	0.00%	0.00012	0.00%
31	Fiberglass_hd.thm	2.107061	2.355946	70.636292	1.675282	0.3	31	2.106764	2.354291	70.636292	1.675531	0.3	0.000	0.00%	0.00165	0.07%	0.00000	0.00%	0.00025	0.01%
32	Fiberglass_jb.thm	2.089936	2.352231	70.636307	1.675282	0.3	32	2.089947	2.352352	70.636307	1.675531	0.3	0.000	0.00%	-0.00012	-0.01%	0.00000	0.00%	0.00025	0.01%
33	Fiberglass_si.thm	2.107243	2.354411	70.636307	1.675282	0.3	33	2.107246	2.354532	70.636307	1.675531	0.3	0.000	0.00%	-0.00012	-0.01%	0.00000	0.00%	0.00025	0.01%
41	PFM01_hd.thm	2.206614	3.012598	42.876282	2.710158	0.3	41	2.206606	3.012679	42.876282	2.710317	0.3	0.000	0.00%	-0.00008	0.00%	0.00000	0.00%	0.00016	0.01%
42	PFM01_jb.thm	2.204436	3.013083	42.876266	2.710158	0.3	42	2.204441	3.013164	42.876266	2.710317	0.3	0.000	0.00%	-0.00008	0.00%	0.00000	0.00%	0.00016	0.01%
43	PFM01_si.thm	2.208198	3.013164	42.876266	2.710158	0.3	43	2.208196	3.013244	42.876266	2.710317	0.3	0.000	0.00%	-0.00008	0.00%	0.00000	0.00%	0.00016	0.01%
44	PFM02_hd.thm	2.183655	2.418534	42.876282	1.851415	0.3	44	2.183653	2.418696	42.876282	1.851633	0.3	0.000	0.00%	-0.00016	-0.01%	0.00000	0.00%	0.00022	0.01%
45	PFM02_jb.thm	2.181354	2.419019	42.876266	1.851415	0.3	45	2.181357	2.4191	42.876266	1.851633	0.3	0.000	0.00%	-0.00008	0.00%	0.00000	0.00%	0.00022	0.01%
46	PFM02_si.thm	2.185302	2.41918	42.876266	1.851415	0.3	46	2.185293	2.419301	42.876266	1.851633	0.3	0.000	0.00%	-0.00012	-0.01%	0.00000	0.00%	0.00022	0.01%
51	PVC_hd.thm	1.760237	2.02128	72.357224	1.723943	0.3	51	1.760246	2.021482	72.357224	1.724177	0.3	0.000	0.00%	-0.00020	-0.01%	0.00000	0.00%	0.00023	0.01%
52	PVC_jb.thm	1.698165	2.045507	89.807037	1.723943	0.3	52	1.694381	2.042479	89.807037	1.724177	0.3	-0.004	-0.22%	0.00303	0.15%	0.00000	0.00%	0.00023	0.01%
53	PVC_si.thm	1.755034	2.020876	72.357224	1.723943	0.3	53	1.755046	2.021038	72.357224	1.724177	0.3	0.000	0.00%	-0.00016	-0.01%	0.00000	0.00%	0.00023	0.01%
61	FS95_hd_75_c_20.thm	24.371563	2.415658	8.604004	2.014314	0.3	61	24.372076	2.416102	8.604004	2.014718	0.3	0.001	0.00%	-0.00044	-0.02%	0.00000	0.00%	0.00040	0.02%
62	FS95_jb_75_c_20.thm	24.418192	2.41486	8.600586	2.014314	0.3	62	24.417923	2.415061	8.600586	2.014718	0.3	0.000	0.00%	-0.00020	-0.01%	0.00000	0.00%	0.00040	0.02%
63	FS95_si_75_c_20.thm	11.11504	2.1297	19.075195	2.014314	0.3	63	11.114971	2.129941	19.075195	2.014718	0.3	0.000	0.00%	-0.00024	-0.01%	0.00000	0.00%	0.00040	0.02%
71	TRR01_hd.thm	3.595289	1.752231	61.035797	1.265787	0.3	71	3.595395	1.752231	61.035797	1.2658	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00001	0.00%
72	TRR01_jb.thm	3.616187	1.752917	61.035889	1.265787	0.3	72	3.616203	1.752918	61.035889	1.2658	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00001	0.00%
73	TRR01_si.thm	3.594673	1.75215	61.035889	1.265787	0.3	73	3.59472	1.75215	61.035889	1.2658	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00001	0.00%
81	TRR97_hd.thm	2.501143	2.360711	50.013901	1.71907	0.3	81	2.500345	2.360468	50.013901	1.719299	0.3	-0.001	-0.03%	0.00024	0.01%	0.00000	0.00%	0.00023	0.01%
82	TRR97_jb.thm	2.499378	2.355865	50.01387	1.71907	0.3	82	2.499362	2.356027	50.01387	1.719299	0.3	0.000	0.00%	-0.00016	-0.01%	0.00000	0.00%	0.00023	0.01%
83	TRR97_si.thm	2.483959	2.351827	50.01387	1.71907	0.3	83	2.483955	2.351948	50.01387	1.719299	0.3	0.000	0.00%	-0.00012	-0.01%	0.00000	0.00%	0.00023	0.01%
91	TRR99_hf.thm	9.342449	2.148587	37.617874	1.734175	0.3	91	9.337694	2.148464	37.617874	1.734194	0.3	-0.005	-0.05%	0.00012	0.01%	0.00000	0.00%	0.00002	0.00%
92	TRR99_hv.thm	4.551664	2.546497	37.699295	1.734175	0.3	92	4.551728	2.546497	37.699295	1.734194	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00002	0.00%
93	TRR99_jf.thm	10.209782	2.136256	22.236664	1.734175	0.3	93	10.253253	2.14078	22.236664	1.734194	0.3	0.043	0.43%	-0.00452	-0.21%	0.00000	0.00%	0.00002	0.00%
94	TRR99_jv.thm	4.44295	2.565031	36.233734	1.734175	0.3	94	4.441867	2.565193	36.233734	1.734194	0.3	-0.001	-0.02%	-0.00016	-0.01%	0.00000	0.00%	0.00002	0.00%
95	TRR99_mr.thm	9.707787	2.346912	40.827759	1.734175	0.3	95	9.707787	2.346912	40.827759	1.734194	0.3	0.000	0.00%	0.00000	0.00%	0.00000	0.00%	0.00002	0.00%
96	TRR99_sf.thm	12.58257	2.241881	37.594955	1.734175	0.3	96	12.586531	2.242086	37.594955	1.734194	0.3	0.004	0.03%	-0.00021	-0.01%	0.00000	0.00%	0.00002	0.00%
97	TRR99_sv.thm	4.554841	2.554088	36.589386	1.734175	0.3	97	4.555302	2.554492	36.589386	1.734194	0.3	0.000	0.00%	-0.00040	-0.02%	0.00000	0.00%	0.00002	0.00%
	Max												0.043	0.43%	0.005	0.21%	-	0.00%	0.000	0.02%