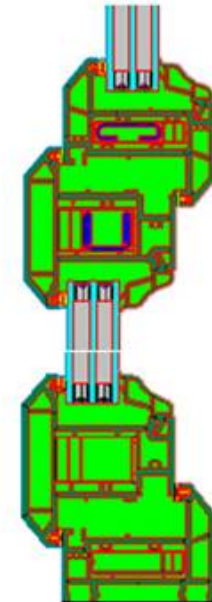


Simulation Case Studies – Double Hung

Double Hung Simulation Study										
Spacer System	Outside Lite	Airspace 1	Middle Lite	Airspace 2	Inner Lite	Gas Fill (95%)	U-Factor (BTU/h-ft ² -F)	SHGC	VT	CR
Intercept Tinplate	3mm Clear	N/A	N/A	0.704	3mm Clear	Air	0.428	0.508	0.530	42.1
Intercept Ultra	3mm Clear	N/A	N/A	0.704	3mm Clear	Air	0.422	0.508	0.530	43.4
Intercept Tinplate	3mm Clear	0.293	3mm Clear	0.293	3mm Clear	Air	0.347	0.456	0.482	51.7
Intercept Tinplate	3mm Clear	N/A	N/A	0.704	3mm SB60	Air	0.318	0.312	0.473	50.9
Intercept Ultra	3mm Clear	N/A	N/A	0.704	3mm SB60	Air	0.310	0.312	0.473	53.2
Superspacer	3mm Clear	N/A	N/A	0.704	3mm SB60	Air	0.307	0.314	0.470	53.8
Intercept Tinplate	3mm Clear	0.293	3mm Clear	0.293	3mm SB60	Air	0.296	0.289	0.429	56.4
Intercept Tinplate	3mm Clear	N/A	N/A	0.704	TIPS AGC	Argon	0.293	0.407	0.503	53.6
Intercept Ultra	3mm Clear	0.293	Clear	0.293	3mm SB60	Air	0.290	0.289	0.429	58.2
Superspacer	3mm Clear	0.293	Clear	0.293	3mm SB60	Air	0.289	0.299	0.427	58.1
Intercept Tinplate	3mm Clear	N/A	N/A	0.704	3mm SB60	Argon	0.287	0.314	0.473	54.1
Intercept Tinplate	3mm Clear	N/A	N/A	0.704	3mm SB70XL	Argon	0.283	0.259	0.417	54.4
Intercept Ultra	3mm Clear	N/A	N/A	0.704	3mm SB60	Argon	0.278	0.313	0.473	56.8
Superspacer	3mm Clear	N/A	N/A	0.704	3mm SB60	Argon	0.276	0.313	0.473	57.3
Intercept Tinplate	3mm Clear	N/A	N/A	0.704	3mm SB60	Krypton	0.273	0.316	0.473	56.3
Truseal Duralite	3mm Clear	N/A	N/A	0.704	3mm SB60	Argon	0.269	0.313	0.473	59.4
Intercept Tinplate	3mm Clear	0.293	3mm Clear	0.293	3mm SB60	Argon	0.263	0.289	0.429	59.0
Intercept Ultra	3mm Clear	0.293	3mm Clear	0.293	3mm SB60	Argon	0.257	0.289	0.429	61.3
Superspacer	3mm Clear	0.293	3mm Clear	0.293	3mm SB60	Argon	0.257	0.289	0.429	61.1
Truseal Duralite	3mm Clear	0.293	3mm Clear	0.293	3mm SB60	Argon	0.249	0.288	0.429	64.0
Intercept Tinplate	3mm Clear	0.293	3mm SG500	0.293	3mm SB60	Argon	0.242	0.281	0.399	62.0
Intercept Ultra	3mm Clear	0.293	3mm SG500	0.293	3mm SB60	Argon	0.236	0.280	0.399	64.5
Intercept Tinplate	3mm Clear	0.500	3mm Clear	0.500	3mm SB60	Argon	0.232	0.301	0.434	63.4
Intercept Tinplate	3mm Clear	0.293	3mm Clear	0.293	3mm SB60	Krypton	0.224	0.286	0.427	62.0
Intercept Ultra	3mm Clear	0.500	3mm Clear	0.500	3mm SB60	Argon	0.220	0.296	0.434	67.2
Intercept Ultra	3mm Clear	0.293	3mm Clear	0.293	3mm SB60	Krypton	0.218	0.287	0.429	65.1
Intercept Tinplate	3mm Clear	0.500	3mm SG500	0.500	3mm SB60	Argon	0.210	0.307	0.403	66.4
Intercept Ultra	3mm Clear	0.500	3mm SG500	0.500	3mm SB60	Argon	0.199	0.302	0.404	70.6
Intercept Ultra	3mm Clear	0.293	3mm SG500	0.293	3mm SB60	Krypton	0.198	0.278	0.399	68.4
Intercept Tinplate	3mm SB60	0.500	3mm Clear	0.500	3mm SB60	Argon	0.198	0.224	0.385	67.8
Intercept Ultra	3mm SB60	0.500	3mm Clear	0.500	3mm SB60	Argon	0.186	0.224	0.385	72.3



Simulation Case Studies – Double Hung

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Double Hung Simulation Summary												
Spacer System	Overall IGU Width	Outer Lite	Airspace 1	Middle Lite	Airspace 2	Inner Lite	Gas Fill (95%)	* NFRC Dbl Hung Size	U-Factor (BTU/h-ft ² -F)	SHGC	CR	
Intercept Ultra	0.875	3mm Cardinal LowE 2154	N/A	N/A	0.630	3mm Cardinal LowE 2011	Argon	x	0.293	0.215	62.3	
Intercept Tinplate	0.875	3mm Cardinal LowE 2154	N/A	N/A	0.630	3mm Cardinal LowE 2011	Argon	x	0.302	0.215	59.6	
Intercept Tinplate - Foam Frame/Sash	0.875	3mm Cardinal LowE 2154	N/A	N/A	0.630	3mm Cardinal LowE 2011	Air	x	0.327	0.215	54.1	
Superspacer	0.875	3mm Cardinal LowE 2154	N/A	N/A	0.630	3mm Cardinal LowE 2011	Air	x	0.327	0.215	59.9	
Intercept Tinplate - Chambered Frame/Sash	0.875	3mm Cardinal LowE 2154	N/A	N/A	0.630	3mm Cardinal LowE 2011	Air	x	0.330	0.215	54.0	
Intercept Ultra	0.875	3mm Cardinal LowE 2154	N/A	N/A	0.630	3mm Cardinal LowE 2011	Air	x	0.330	0.215	56.4	
Intercept Tinplate	0.875	3mm Cardinal LowE 2154	N/A	N/A	0.630	3mm Cardinal LowE 2011	Air	x	0.339	0.215	53.7	
Intercept Tinplate	0.875	3mm Clear-887	N/A	N/A	0.630	3mm AGC Comfort E ² -907	Argon	x	0.352	0.575	52.6	
Intercept Tinplate	0.875	3mm Clear-887	N/A	N/A	0.630	3mm AGC Comfort E ² -907	Air	x	0.382	0.572	49.9	

* NFRC standard double hung window size is 47.244" W x 59.055" H.

