

Thermal Performance Data

Product Series	Product Line(s)	Glass Type/ Infill	Glass Thickness	Spacer	No Grilles				w/Grilles							
					U-Factor	SHGC	ENERGY STAR Qualified Zone(s)		U-Factor	SHGC	ENERGY STAR Qualified Zone(s)					
1200	1200 Double-Hung	Clear/Air	2.2mm	Intercept	0.49	0.62	-	-	-	-	0.49	0.56	-	-	-	-
			3.0mm	Intercept	0.49	0.61	-	-	-	-	0.50	0.55	-	-	-	-
		LoE2/Air	2.2mm	Intercept	0.36	0.33	-	-	-	-	0.36	0.30	-	-	-	-
			3.0mm	Intercept	0.35	0.33	-	-	-	-	0.37	0.30	-	-	-	-
		LoE2/Argon	2.2mm	Intercept	0.32	0.33	-	NC	-	-	0.32	0.30	-	NC	SC	-
			3.0mm	Intercept	0.32	0.33	-	NC	-	-	0.33	0.30	-	-	SC	-
	LoE3/Air	2.2mm	Intercept	0.35	0.25	-	-	SC	S	0.35	0.23	-	-	-	SC	S
		3.0mm	Intercept	0.36	0.25	-	-	-	S	0.37	0.23	-	-	-	-	S
	LoE3/Argon	2.2mm	Intercept	0.30	0.25	N	NC	SC	S	0.30	0.23	N	NC	SC	SC	S
		3.0mm	Intercept	0.31	0.25	-	NC	SC	S	0.33	0.23	-	-	SC	S	
	1300 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.47	0.65	-	-	-	-	0.48	0.59	-	-	-	-
			4.0mm	Intercept	0.49	0.63	-	-	-	-	0.50	0.57	-	-	-	-
		LoE2/Air	3.0mm	Intercept	0.33	0.35	-	-	-	-	0.35	0.32	-	-	-	-
			4.0mm	Intercept	0.36	0.35	-	-	-	-	0.38	0.32	-	-	-	-
		LoE2/Argon	3.0mm	Intercept	0.28	0.35	N	NC	-	-	0.30	0.32	N	NC	-	-
			4.0mm	Intercept	0.30	0.35	N	NC	-	-	0.32	0.32	-	NC	-	-
	LoE3/Air	3.0mm	Intercept	0.33	0.27	-	-	SC	S	0.34	0.25	-	-	SC	S	
		4.0mm	Intercept	0.35	0.27	-	-	SC	S	0.37	0.25	-	-	-	S	
LoE3/Argon	3.0mm	Intercept	0.28	0.27	N	NC	SC	S	0.29	0.24	N	NC	SC	SC	S	
	4.0mm	Intercept	0.30	0.27	N	NC	SC	S	0.30	0.24	N	NC	SC	SC	S	
2000	2001, 2002, 2003 Single-Hung	Clear/Air	2.2mm	Intercept	0.49	0.65	-	-	-	-	0.48	0.58	-	-	-	-
			3.0mm	Intercept	0.49	0.64	-	-	-	-	0.49	0.57	-	-	-	-
		LoE2/Air	2.2mm	Intercept	0.34	0.35	-	-	-	-	0.34	0.31	-	-	-	-
			3.0mm	Intercept	0.34	0.34	-	-	-	-	0.36	0.31	-	-	-	-
		LoE2/Argon	2.2mm	Intercept	0.30	0.34	N	NC	-	-	0.30	0.31	N	NC	-	-
			3.0mm	Intercept	0.30	0.34	N	NC	-	-	0.31	0.31	-	NC	-	-
	LoE3/Air	2.2mm	Intercept	0.33	0.26	-	-	SC	S	0.33	0.24	-	-	SC	S	
		3.0mm	Intercept	0.34	0.26	-	-	SC	S	0.35	0.24	-	-	SC	S	
	LoE3/Argon	2.2mm	Intercept	0.29	0.26	N	NC	SC	S	0.29	0.24	N	NC	SC	SC	S
		3.0mm	Intercept	0.30	0.26	N	NC	SC	S	0.31	0.24	-	NC	SC	SC	S
	2041, 2051 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.48	0.65	-	-	-	-	0.49	0.59	-	-	-	-
			4.0mm	Intercept	0.49	0.63	-	-	-	-	0.50	0.57	-	-	-	-
		LoE2/Air	3.0mm	Intercept	0.34	0.35	-	-	-	-	0.35	0.32	-	-	-	-
			4.0mm	Intercept	0.36	0.35	-	-	-	-	0.37	0.32	-	-	-	-
		LoE2/Argon	3.0mm	Intercept	0.29	0.35	N	NC	-	-	0.30	0.32	N	NC	-	-
			4.0mm	Intercept	0.30	0.35	N	NC	-	-	0.32	0.32	-	NC	-	-
	LoE3/Air	3.0mm	Intercept	0.33	0.27	-	-	SC	S	0.34	0.25	-	-	SC	S	
		4.0mm	Intercept	0.35	0.27	-	-	SC	S	0.37	0.25	-	-	-	S	
	LoE3/Argon	3.0mm	Intercept	0.29	0.27	N	NC	SC	S	0.29	0.24	N	NC	SC	SC	S
		4.0mm	Intercept	0.30	0.27	N	NC	SC	S	0.32	0.24	-	NC	SC	SC	S
	2079 Fixed/Geometric Shapes	Clear/Air	3.0mm	SuperSpacer	0.47	0.65	-	-	-	-	0.48	0.59	-	-	-	-
			4.0mm	SuperSpacer	0.48	0.63	-	-	-	-	0.49	0.57	-	-	-	-
		LoE2/Air	3.0mm	SuperSpacer	0.32	0.35	-	NC	-	-	0.34	0.32	-	-	-	-
			4.0mm	SuperSpacer	0.34	0.35	-	-	-	-	0.36	0.32	-	-	-	-
		LoE2/Argon	3.0mm	SuperSpacer	0.28	0.35	N	NC	-	-	0.29	0.32	N	NC	-	-
			4.0mm	SuperSpacer	0.29	0.35	N	NC	-	-	0.31	0.32	-	NC	-	-
	LoE3/Air	3.0mm	SuperSpacer	0.32	0.27	-	NC	SC	S	0.33	0.25	-	-	SC	S	
		4.0mm	SuperSpacer	0.34	0.27	-	-	SC	S	0.36	0.25	-	-	-	S	
	LoE3/Argon	3.0mm	SuperSpacer	0.27	0.27	N	NC	SC	S	0.28	0.24	N	NC	SC	SC	S
		4.0mm	SuperSpacer	0.29	0.27	N	NC	SC	S	0.30	0.24	N	NC	SC	SC	S
	2092, 2093, 2094 Horizontal Sliding Window	Clear/Air	2.2mm	Intercept	0.48	0.66	-	-	-	-	0.48	0.59	-	-	-	-
			3.0mm	Intercept	0.49	0.64	-	-	-	-	0.49	0.58	-	-	-	-
		LoE2/Air	2.2mm	Intercept	0.34	0.35	-	-	-	-	0.34	0.32	-	-	-	-
			3.0mm	Intercept	0.34	0.35	-	-	-	-	0.35	0.31	-	-	-	-
		LoE2/Argon	2.2mm	Intercept	0.29	0.35	N	NC	-	-	0.29	0.31	N	NC	-	-
			3.0mm	Intercept	0.30	0.34	N	NC	-	-	0.31	0.31	-	NC	-	-
LoE3/Air		2.2mm	Intercept	0.33	0.27	-	-	SC	S	0.33	0.24	-	-	SC	S	
		3.0mm	Intercept	0.34	0.27	-	-	SC	S	0.35	0.24	-	-	SC	S	
LoE3/Argon		2.2mm	Intercept	0.29	0.26	N	NC	SC	S	0.29	0.24	N	NC	SC	SC	S
		3.0mm	Intercept	0.29	0.26	N	NC	SC	S	0.30	0.24	N	NC	SC	SC	S

Thermal Performance Data

Product Series	Product Line(s)	Glass Type/ Infill	Glass Thickness	Spacer	No Grilles						w/Grilles							
					U-Factor	SHGC	ENERGY STAR				U-Factor	SHGC	ENERGY STAR					
							Qualified Zone(s)						Qualified Zone(s)					
2110	2110B, 2110C Single-Hung	Clear/Air	2.2mm	Intercept	N/A	N/A	-	-	-	-	N/A	N/A	-	-	-	-		
			3.0mm	Intercept	0.49	0.64	-	-	-	-	0.49	0.57	-	-	-	-		
		LoE2/Air	2.2mm	Intercept	N/A	N/A	-	-	-	-	N/A	N/A	-	-	-	-		
			3.0mm	Intercept	0.34	0.34	-	-	-	-	0.36	0.31	-	-	-	-		
		LoE2/Argon	2.2mm	Intercept	N/A	N/A	-	-	-	-	N/A	N/A	-	-	-	-		
			3.0mm	Intercept	0.30	0.34	N	NC	-	-	0.31	0.31	-	-	NC	-		
		LoE3/Air	2.2mm	Intercept	N/A	N/A	-	-	-	-	N/A	N/A	-	-	-	-		
			3.0mm	Intercept	0.34	0.26	-	-	SC	S	0.35	0.24	-	-	SC	S		
		LoE3/Argon	2.2mm	Intercept	N/A	N/A	-	-	-	-	N/A	N/A	-	-	-	-		
			3.0mm	Intercept	0.30	0.26	N	NC	SC	S	0.31	0.24	-	-	NC	SC	S	
		2130 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.48	0.65	-	-	-	-	0.49	0.59	-	-	-	-	
				4.0mm	Intercept	0.49	0.63	-	-	-	-	0.50	0.57	-	-	-	-	
	LoE2/Air		3.0mm	Intercept	0.34	0.35	-	-	-	-	0.35	0.32	-	-	-	-		
			4.0mm	Intercept	0.36	0.35	-	-	-	-	0.37	0.32	-	-	-	-		
	LoE2/Argon		3.0mm	Intercept	0.29	0.35	N	NC	-	-	0.30	0.32	N	NC	-	-		
			4.0mm	Intercept	0.30	0.35	N	NC	-	-	0.32	0.32	-	-	NC	-		
	LoE3/Air		3.0mm	Intercept	0.33	0.27	-	-	SC	S	0.34	0.25	-	-	SC	S		
			4.0mm	Intercept	0.35	0.27	-	-	SC	S	0.37	0.25	-	-	SC	S		
	LoE3/Argon		3.0mm	Intercept	0.29	0.27	N	NC	SC	S	0.29	0.24	N	NC	SC	S		
			4.0mm	Intercept	0.30	0.27	N	NC	SC	S	0.32	0.24	-	-	NC	SC	S	
	2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2145 Fixed/Geometric Shapes		Clear/Air	3.0mm	SuperSpacer	0.47	0.65	-	-	-	-	0.48	0.59	-	-	-	-	
				4.0mm	SuperSpacer	0.48	0.63	-	-	-	-	0.49	0.57	-	-	-	-	
		LoE2/Air	3.0mm	SuperSpacer	0.32	0.35	-	-	NC	-	0.34	0.32	-	-	-	-		
			4.0mm	SuperSpacer	0.34	0.35	-	-	-	-	0.36	0.32	-	-	-	-		
		LoE2/Argon	3.0mm	SuperSpacer	0.28	0.35	N	NC	-	-	0.29	0.32	N	NC	-	-		
			4.0mm	SuperSpacer	0.29	0.35	N	NC	-	-	0.31	0.32	-	-	NC	-		
		LoE3/Air	3.0mm	SuperSpacer	0.32	0.27	-	-	SC	S	0.33	0.25	-	-	SC	S		
			4.0mm	SuperSpacer	0.34	0.27	-	-	SC	S	0.36	0.25	-	-	SC	S		
		LoE3/Argon	3.0mm	SuperSpacer	0.27	0.27	N	NC	SC	S	0.28	0.24	N	NC	SC	S		
			4.0mm	SuperSpacer	0.29	0.27	N	NC	SC	S	0.30	0.24	N	NC	SC	S		
		2300	2301, 2302, 2303, 2381, 2382, 2385L/R Single-Hung	Clear/Air	2.2mm	Intercept	0.48	0.65	-	-	-	-	0.49	0.58	-	-	-	-
					3.0mm	Intercept	0.49	0.64	-	-	-	-	0.49	0.57	-	-	-	-
	LoE2/Air			2.2mm	Intercept	0.34	0.35	-	-	-	-	0.35	0.31	-	-	-	-	
				3.0mm	Intercept	0.34	0.34	-	-	-	-	0.36	0.31	-	-	-	-	
	LoE2/Argon			2.2mm	Intercept	0.30	0.34	N	NC	-	-	0.31	0.31	-	-	NC	-	
				3.0mm	Intercept	0.30	0.34	N	NC	-	-	0.31	0.31	-	-	NC	-	
LoE3/Air	2.2mm			Intercept	0.33	0.26	-	-	SC	S	0.34	0.24	-	-	SC	S		
	3.0mm			Intercept	0.34	0.26	-	-	SC	S	0.35	0.24	-	-	SC	S		
LoE3/Argon	2.2mm			Intercept	0.30	0.26	N	NC	SC	S	0.30	0.24	N	NC	SC	S		
	3.0mm			Intercept	0.29	0.26	N	NC	SC	S	0.30	0.24	N	NC	SC	S		
2341, 2351 Fixed/Picture Window	Clear/Air			3.0mm	Intercept	0.48	0.65	-	-	-	-	0.49	0.59	-	-	-	-	
				4.0mm	Intercept	0.49	0.63	-	-	-	-	0.50	0.57	-	-	-	-	
	LoE2/Air		3.0mm	Intercept	0.34	0.35	-	-	-	-	0.35	0.32	-	-	-	-		
			4.0mm	Intercept	0.36	0.35	-	-	-	-	0.37	0.32	-	-	-	-		
	LoE2/Argon		3.0mm	Intercept	0.29	0.35	N	NC	-	-	0.30	0.32	N	NC	-	-		
			4.0mm	Intercept	0.30	0.35	N	NC	-	-	0.32	0.32	-	-	NC	-		
	LoE3/Air		3.0mm	Intercept	0.33	0.27	-	-	SC	S	0.34	0.25	-	-	SC	S		
			4.0mm	Intercept	0.35	0.27	-	-	SC	S	0.37	0.25	-	-	SC	S		
	LoE3/Argon		3.0mm	Intercept	0.29	0.27	N	NC	SC	S	0.29	0.24	N	NC	SC	S		
			4.0mm	Intercept	0.30	0.27	N	NC	SC	S	0.30	0.24	N	NC	SC	S		
	2361, 2362, 2363, 2364, 2366, 2367, 2368, 2369 Fixed/Geometric Shapes		Clear/Air	3.0mm	SuperSpacer	0.47	0.65	-	-	-	-	0.48	0.59	-	-	-	-	
				4.0mm	SuperSpacer	0.48	0.63	-	-	-	-	0.49	0.47	-	-	-	-	
LoE2/Air			3.0mm	SuperSpacer	0.32	0.35	-	-	NC	-	0.34	0.32	-	-	-	-		
			4.0mm	SuperSpacer	0.34	0.35	-	-	-	-	0.36	0.32	-	-	-	-		
LoE2/Argon			3.0mm	SuperSpacer	0.28	0.35	N	NC	-	-	0.29	0.32	N	NC	-	-		
			4.0mm	SuperSpacer	0.29	0.35	N	NC	-	-	0.31	0.32	-	-	NC	-		
LoE3/Air			3.0mm	SuperSpacer	0.32	0.27	-	-	SC	S	0.33	0.25	-	-	SC	S		
			4.0mm	SuperSpacer	0.34	0.27	-	-	SC	S	0.36	0.25	-	-	SC	S		
LoE3/Argon			3.0mm	SuperSpacer	0.27	0.27	N	NC	SC	S	0.28	0.24	N	NC	SC	S		
			4.0mm	SuperSpacer	0.29	0.27	N	NC	SC	S	0.30	0.24	N	NC	SC	S		
2392, 2393, 2394 Horizontal Sliding Window			Clear/Air	2.2mm	Intercept	0.48	0.66	-	-	-	-	0.48	0.59	-	-	-	-	
				3.0mm	Intercept	0.49	0.64	-	-	-	-	0.49	0.58	-	-	-	-	
	LoE2/Air		2.2mm	Intercept	0.34	0.35	-	-	-	-	0.34	0.32	-	-	-	-		
			3.0mm	Intercept	0.34	0.35	-	-	-	-	0.35	0.31	-	-	-	-		
	LoE2/Argon		2.2mm	Intercept	0.29	0.35	N	NC	-	-	0.29	0.31	N	NC	-	-		
			3.0mm	Intercept	0.30	0.34	N	NC	-	-	0.31	0.31	-	-	NC	-		
	LoE3/Air	2.2mm	Intercept	0.33	0.27	-	-	SC	S	0.33	0.24	-	-	SC	S			
		3.0mm	Intercept	0.34	0.27	-	-	SC	S	0.35	0.24	-	-	SC	S			
	LoE3/Argon	2.2mm	Intercept	0.29	0.26	N	NC	SC	S	0.29	0.24	N	NC	SC	S			
		3.0mm	Intercept	0.29	0.26	N	NC	SC	S	0.30	0.24	N	NC	SC	S			

Thermal Performance Data

Product Series	Product Line(s)	Glass Type/ Infill	Glass Thickness	Spacer	No Grilles			w/Grilles									
					U-Factor	SHGC	ENERGY STAR Qualified Zone(s)	U-Factor	SHGC	ENERGY STAR Qualified Zone(s)							
2700	2710B, 2710C, 2760 Single-Hung	Clear/Air	3.0mm	Intercept	0.50	0.62	-	-	-	-	0.50	0.56	-	-	-	-	
			4.0mm	Intercept	0.51	0.60	-	-	-	-	0.52	0.54	-	-	-	-	
		LoE2/Air	3.0mm	Intercept	0.36	0.34	-	-	-	-	0.38	0.30	-	-	-	-	
			4.0mm	Intercept	0.39	0.34	-	-	-	-	0.41	0.30	-	-	-	-	
		LoE2/Argon	3.0mm	Intercept	0.32	0.33	-	NC	-	-	0.33	0.30	-	-	SC	-	
			4.0mm	Intercept	0.34	0.33	-	-	-	-	0.35	0.30	-	-	SC	-	
		LoE3/Air	3.0mm	Intercept	0.36	0.26	-	-	-	S	0.37	0.23	-	-	-	S	
			4.0mm	Intercept	0.38	0.26	-	-	-	S	0.40	0.23	-	-	-	S	
		LoE3/Argon	3.0mm	Intercept	0.31	0.25	-	NC	SC	S	0.33	0.23	-	-	SC	S	
			4.0mm	Intercept	0.33	0.25	-	-	SC	S	0.35	0.23	-	-	SC	S	
		2730, 2780 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.49	0.63	-	-	-	-	0.50	0.57	-	-	-	-
				4.0mm	Intercept	0.50	0.61	-	-	-	-	0.51	0.55	-	-	-	-
	LoE2/Air		3.0mm	Intercept	0.35	0.34	-	-	-	-	0.37	0.31	-	-	-	-	
			4.0mm	Intercept	0.38	0.34	-	-	-	-	0.40	0.31	-	-	-	-	
	LoE2/Argon		3.0mm	Intercept	0.30	0.34	N	NC	-	-	0.32	0.31	-	-	NC	-	
			4.0mm	Intercept	0.32	0.34	-	NC	-	-	0.34	0.30	-	-	SC	-	
	LoE3/Air		3.0mm	Intercept	0.35	0.26	-	-	SC	S	0.36	0.24	-	-	-	S	
			4.0mm	Intercept	0.37	0.26	-	-	-	S	0.39	0.24	-	-	-	S	
	LoE3/Argon		3.0mm	Intercept	0.30	0.26	N	NC	SC	S	0.31	0.23	-	-	NC	SC	S
			4.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.34	0.23	-	-	SC	S	
	2735, 2739, 2785 Fixed/Geometric Shapes		Clear/Air	3.0mm	SuperSpacer	0.49	0.63	-	-	-	-	0.50	0.57	-	-	-	-
				4.0mm	SuperSpacer	0.50	0.61	-	-	-	-	0.51	0.55	-	-	-	-
		LoE2/Air	3.0mm	SuperSpacer	0.35	0.34	-	-	-	-	0.37	0.31	-	-	-	-	
			4.0mm	SuperSpacer	0.38	0.34	-	-	-	-	0.40	0.31	-	-	-	-	
LoE2/Argon		3.0mm	SuperSpacer	0.30	0.34	N	NC	-	-	0.32	0.31	-	-	NC	-		
		4.0mm	SuperSpacer	0.32	0.34	-	NC	-	-	0.34	0.30	-	-	SC	-		
LoE3/Air		3.0mm	SuperSpacer	0.35	0.26	-	-	SC	S	0.36	0.24	-	-	-	S		
		4.0mm	SuperSpacer	0.37	0.26	-	-	-	S	0.39	0.24	-	-	-	S		
LoE3/Argon		3.0mm	SuperSpacer	0.30	0.26	N	NC	SC	S	0.31	0.23	-	-	NC	SC	S	
		4.0mm	SuperSpacer	0.32	0.26	-	NC	SC	S	0.34	0.23	-	-	SC	S		
2900		2802, 2803, 2804 Horizontal Sliding Window	Clear/Air	2.2mm	Intercept	0.48	0.63	-	-	-	-	0.48	0.57	-	-	-	
				3.0mm	Intercept	0.49	0.62	-	-	-	-	0.49	0.56	-	-	-	
	LoE2/Air		2.2mm	Intercept	0.34	0.34	-	-	-	-	0.34	0.31	-	-	-	-	
			3.0mm	Intercept	0.35	0.34	-	-	-	-	0.36	0.30	-	-	-	-	
	LoE2/Argon		2.2mm	Intercept	0.30	0.34	N	NC	-	-	0.30	0.30	N	NC	SC	-	
			3.0mm	Intercept	0.31	0.33	-	NC	-	-	0.32	0.30	-	-	NC	SC	
	LoE3/Air		2.2mm	Intercept	0.34	0.26	-	-	SC	S	0.34	0.23	-	-	SC	S	
			3.0mm	Intercept	0.34	0.26	-	-	SC	S	0.35	0.23	-	-	SC	S	
	LoE3/Argon		2.2mm	Intercept	0.30	0.25	N	NC	SC	S	0.30	0.23	N	NC	SC	S	
			3.0mm	Intercept	0.30	0.25	N	NC	SC	S	0.30	0.23	N	NC	SC	S	
	2901, 2902, 2903,2907, 2907TW, 2907TR, 2910, 2920, 2930, 2981, 2982, 2984, 2985L/R Single- Hung		Clear/Air	2.2mm	Intercept	0.48	0.64	-	-	-	-	0.48	0.57	-	-	-	-
				3.0mm	Intercept	0.49	0.62	-	-	-	-	0.49	0.56	-	-	-	-
		LoE2/Air	2.2mm	Intercept	0.34	0.34	-	-	-	-	0.34	0.31	-	-	-	-	
			3.0mm	Intercept	0.35	0.34	-	-	-	-	0.36	0.30	-	-	-	-	
		LoE2/Argon	2.2mm	Intercept	0.30	0.34	N	NC	-	-	0.30	0.30	N	NC	SC	-	
			3.0mm	Intercept	0.31	0.33	-	NC	-	-	0.32	0.30	-	-	NC	SC	
		LoE3/Air	2.2mm	Intercept	0.34	0.26	-	-	SC	S	0.34	0.23	-	-	SC	S	
			3.0mm	Intercept	0.34	0.26	-	-	SC	S	0.36	0.23	-	-	SC	S	
		LoE3/Argon	2.2mm	Intercept	0.30	0.25	N	NC	SC	S	0.30	0.23	N	NC	SC	S	
			3.0mm	Intercept	0.30	0.25	N	NC	SC	S	0.30	0.23	N	NC	SC	S	
		2940, 2942, 2943, 2944, 2945, 2950, 2950PS, 2952, 2953, 2954 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.49	0.63	-	-	-	-	0.49	0.57	-	-	-	-
				4.0mm	Intercept	0.50	0.61	-	-	-	-	0.51	0.55	-	-	-	-
	LoE2/Air		3.0mm	Intercept	0.35	0.34	-	-	-	-	0.36	0.31	-	-	-	-	
			4.0mm	Intercept	0.37	0.34	-	-	-	-	0.38	0.31	-	-	-	-	
LoE2/Argon	3.0mm		Intercept	0.30	0.34	N	NC	-	-	0.31	0.31	-	-	NC	-		
	4.0mm		Intercept	0.32	0.34	-	NC	-	-	0.33	0.30	-	-	SC	-		
LoE3/Air	3.0mm		Intercept	0.34	0.26	-	-	SC	S	0.35	0.24	-	-	SC	S		
	4.0mm		Intercept	0.36	0.26	-	-	-	S	0.38	0.24	-	-	-	S		
LoE3/Argon	3.0mm		Intercept	0.30	0.26	N	NC	SC	S	0.30	0.23	N	NC	SC	S		
	4.0mm		Intercept	0.28	0.26	N	NC	SC	S	0.30	0.23	N	NC	SC	S		

Thermal Performance Data

Product Series	Product Line(s)	Glass Type/ Infill	Glass Thickness	Spacer	No Grilles				w/Grilles							
					U-Factor	SHGC	ENERGY STAR Qualified Zone(s)		U-Factor	SHGC	ENERGY STAR Qualified Zone(s)					
2900 cont	2961, 2962, 2963, 2964, 2966, 2967, 2968, 2969, 2970L, 2970C, 2970R, 2971, 2975, 2977, 2979, 2987, 2989 Fixed/Geometric Shapes	Clear/Air	3.0mm	SuperSpacer	0.48	0.63	-	-	-	-	0.48	0.57	-	-	-	-
			4.0mm	SuperSpacer	0.49	0.61	-	-	-	-	0.50	0.55	-	-	-	-
		LoE2/Air	3.0mm	SuperSpacer	0.33	0.34	-	-	-	-	0.35	0.31	-	-	-	-
			4.0mm	SuperSpacer	0.35	0.34	-	-	-	-	0.37	0.31	-	-	-	-
		LoE2/Argon	3.0mm	SuperSpacer	0.29	0.34	N	NC	-	-	0.30	0.31	N	NC	-	-
			4.0mm	SuperSpacer	0.30	0.34	N	NC	-	-	0.32	0.30	-	NC	SC	S
		LoE3/Air	3.0mm	SuperSpacer	0.33	0.26	-	-	SC	S	0.34	0.24	-	-	-	S
			4.0mm	SuperSpacer	0.35	0.26	-	-	SC	S	0.37	0.24	-	-	-	S
		LoE3/Argon	3.0mm	SuperSpacer	0.29	0.26	N	NC	SC	S	0.30	0.23	N	NC	SC	S
			4.0mm	SuperSpacer	0.30	0.26	N	NC	SC	S	0.30	0.23	N	NC	SC	S
3000	3001, 3002, 3003, 3010, 3020, 3030 Double-Hung	Clear/Air	2.2mm	Intercept	0.47	0.61	-	-	-	-	0.47	0.55	-	-	-	
			3.0mm	Intercept	0.47	0.61	-	-	-	-	0.47	0.54	-	-	-	
		LoE2/Air	2.2mm	Intercept	0.34	0.33	-	-	-	-	0.34	0.30	-	-	SC	-
			3.0mm	Intercept	0.34	0.33	-	-	-	-	0.34	0.29	-	-	SC	-
		LoE2/Argon	2.2mm	Intercept	0.30	0.33	N	NC	-	-	0.30	0.29	N	NC	SC	-
			3.0mm	Intercept	0.30	0.32	N	NC	-	-	0.30	0.29	N	NC	SC	-
		LoE3/Air	2.2mm	Intercept	0.33	0.25	-	-	SC	S	0.33	0.22	-	-	SC	S
			3.0mm	Intercept	0.33	0.25	-	-	SC	S	0.33	0.22	-	-	SC	S
		LoE3/Argon	2.2mm	Intercept	0.30	0.25	N	NC	SC	S	0.30	0.22	N	NC	SC	S
			3.0mm	Intercept	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S
	3041, 3042, 3043, 3044, 3050PS, 3051, 3052, 3053, 3054 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.46	0.65	-	-	-	-	0.46	0.58	-	-	-	
			4.0mm	Intercept	0.46	0.63	-	-	-	-	0.46	0.56	-	-	-	
		LoE2/Air	3.0mm	Intercept	0.32	0.35	-	NC	-	-	0.32	0.31	-	NC	-	
			4.0mm	Intercept	0.32	0.35	-	NC	-	-	0.32	0.31	-	NC	-	
		LoE2/Argon	3.0mm	Intercept	0.28	0.34	N	NC	-	-	0.28	0.31	N	NC	-	
			4.0mm	Intercept	0.28	0.34	N	NC	-	-	0.28	0.31	N	NC	-	
		LoE3/Air	3.0mm	Intercept	0.31	0.26	-	NC	SC	S	0.31	0.24	-	NC	SC	S
			4.0mm	Intercept	0.31	0.26	-	NC	SC	S	0.31	0.24	-	NC	SC	S
		LoE3/Argon	3.0mm	Intercept	0.28	0.26	N	NC	SC	S	0.28	0.24	N	NC	SC	S
			4.0mm	Intercept	0.28	0.26	N	NC	SC	S	0.28	0.24	N	NC	SC	S
	3061, 3062, 3063, 3064, 3066, 3067, 3068, 3069, 3070L, 3070C, 3070R, 30702, 30703, 3071, 3077 Fixed/Geometric Shapes	Clear/Air	3.0mm	SuperSpacer	0.46	0.65	-	-	-	-	0.46	0.58	-	-	-	
			4.0mm	SuperSpacer	0.46	0.63	-	-	-	-	0.46	0.56	-	-	-	
		LoE2/Air	3.0mm	SuperSpacer	0.32	0.35	-	NC	-	-	0.32	0.31	-	NC	-	
			4.0mm	SuperSpacer	0.32	0.34	-	NC	-	-	0.32	0.31	-	NC	-	
LoE2/Argon		3.0mm	SuperSpacer	0.28	0.34	N	NC	-	-	0.28	0.31	N	NC	-		
		4.0mm	SuperSpacer	0.28	0.34	N	NC	-	-	0.28	0.31	N	NC	-		
LoE3/Air		3.0mm	SuperSpacer	0.31	0.26	-	NC	SC	S	0.31	0.24	-	NC	SC	S	
		4.0mm	SuperSpacer	0.31	0.26	-	NC	SC	S	0.31	0.24	-	NC	SC	S	
LoE3/Argon		3.0mm	SuperSpacer	0.28	0.26	N	NC	SC	S	0.28	0.24	N	NC	SC	S	
		4.0mm	SuperSpacer	0.28	0.26	N	NC	SC	S	0.28	0.24	N	NC	SC	S	
4100	4100, 9100 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.46	0.64	-	-	-	-	0.46	0.58	-	-	-	
			4.0mm	Intercept	0.46	0.62	-	-	-	-	0.46	0.56	-	-	-	
		LoE2/Air	3.0mm	Intercept	0.33	0.34	-	-	-	-	0.33	0.31	-	-	-	
			4.0mm	Intercept	0.33	0.34	-	-	-	-	0.33	0.31	-	-	-	
		LoE2/Argon	3.0mm	Intercept	0.29	0.34	N	NC	-	-	0.29	0.31	N	NC	-	
			4.0mm	Intercept	0.29	0.34	N	NC	-	-	0.29	0.31	N	NC	-	
	LoE3/Air	3.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.32	0.24	-	NC	SC	S	
		4.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.32	0.24	-	NC	SC	S	
	LoE3/Argon	3.0mm	Intercept	0.29	0.26	N	NC	SC	S	0.29	0.24	N	NC	SC	S	
		4.0mm	Intercept	0.29	0.26	N	NC	SC	S	0.29	0.23	N	NC	SC	S	
	4400, 4402, 4403, 4404, 4406, 4407, 4408, 4409, 4479 Fixed/Geometric Shapes	Clear/Air	3.0mm	SuperSpacer	0.46	0.64	-	-	-	-	0.46	0.58	-	-	-	
			4.0mm	SuperSpacer	0.46	0.64	-	-	-	-	0.46	0.58	-	-	-	
		LoE2/Air	3.0mm	SuperSpacer	0.33	0.34	-	-	-	-	0.33	0.31	-	-	-	
			4.0mm	SuperSpacer	0.33	0.34	-	-	-	-	0.33	0.31	-	-	-	
		LoE2/Argon	3.0mm	SuperSpacer	0.29	0.34	N	NC	-	-	0.29	0.31	N	NC	-	
			4.0mm	SuperSpacer	0.29	0.34	N	NC	-	-	0.29	0.31	N	NC	-	
		LoE3/Air	3.0mm	SuperSpacer	0.32	0.26	-	NC	SC	S	0.32	0.24	-	NC	SC	S
			4.0mm	SuperSpacer	0.32	0.26	-	NC	SC	S	0.32	0.24	-	NC	SC	S
LoE3/Argon		3.0mm	SuperSpacer	0.29	0.26	N	NC	SC	S	0.29	0.24	N	NC	SC	S	
		4.0mm	SuperSpacer	0.29	0.26	N	NC	SC	S	0.29	0.23	N	NC	SC	S	

Thermal Performance Data

Product Series	Product Line(s)	Glass Type/ Infill	Glass Thickness	Spacer	No Grilles				w/Grilles								
					U-Factor	SHGC	ENERGY STAR Qualified Zone(s)		U-Factor	SHGC	ENERGY STAR Qualified Zone(s)						
5500/ 5700	5502, 5503, 5504, 5700 Patio Doors 5510, 5540 Side Lite/ Transom	Clear/Air	3.0mm	Intercept	0.47	0.63	-	-	-	-	0.47	0.56	-	-	-	-	
			4.0mm	Intercept	0.47	0.61	-	-	-	-	0.47	0.54	-	-	-	-	
		LoE2/Air	3.0mm	Intercept	0.33	0.34	-	-	-	-	0.33	0.30	-	-	NC	SC	-
			4.0mm	Intercept	0.33	0.33	-	-	-	-	0.33	0.30	-	-	NC	SC	-
		LoE2/Argon	3.0mm	Intercept	0.29	0.34	N	NC	-	-	0.29	0.30	N	NC	SC	SC	-
			4.0mm	Intercept	0.29	0.33	N	NC	-	-	0.29	0.30	N	NC	SC	SC	-
		LoE3/Air	3.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.32	0.23	-	NC	SC	SC	S
			4.0mm	Intercept	0.32	0.23	-	NC	SC	S	0.32	0.23	-	NC	SC	SC	S
		LoE3/Argon	3.0mm	Intercept	0.29	0.26	N	NC	SC	S	0.29	0.23	N	NC	SC	SC	S
			4.0mm	Intercept	0.29	0.26	N	NC	SC	S	0.29	0.23	N	NC	SC	SC	S
5800	5802 Patio Door 5810, 5840 Side Lite/ Transom	Clear/Air	3.0mm	Intercept	0.46	0.63	-	-	-	-	0.47	0.55	-	-	-	-	
			4.0mm	Intercept	0.46	0.61	-	-	-	-	0.47	0.54	-	-	-	-	
		LoE2/Air	3.0mm	Intercept	0.33	0.34	-	-	-	-	0.33	0.30	-	-	NC	SC	-
			4.0mm	Intercept	0.33	0.34	-	-	-	-	0.33	0.30	-	-	NC	SC	-
		LoE2/Argon	3.0mm	Intercept	0.29	0.34	N	NC	-	-	0.29	0.30	N	NC	SC	SC	-
			4.0mm	Intercept	0.29	0.33	N	NC	-	-	0.29	0.29	N	NC	SC	SC	-
		LoE3/Air	3.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.32	0.23	-	NC	SC	SC	S
			4.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.32	0.23	-	NC	SC	SC	S
		LoE3/Argon	3.0mm	Intercept	0.28	0.25	N	NC	SC	S	0.28	0.23	N	NC	SC	SC	S
			4.0mm	Intercept	0.28	0.25	N	NC	SC	S	0.28	0.23	N	NC	SC	SC	S
7400	7401, 7402, 7403, 7412, 7413, 7416 Awning Window	Clear/Air	2.2mm	Intercept	0.45	0.55	-	-	-	-	0.45	0.50	-	-	-	-	
			3.0mm	Intercept	0.45	0.54	-	-	-	-	0.45	0.49	-	-	-	-	
		LoE2/Air	2.2mm	Intercept	0.33	0.29	-	-	SC	-	0.33	0.27	-	-	SC	SC	S
			3.0mm	Intercept	0.33	0.29	-	-	SC	-	0.33	0.26	-	-	SC	SC	S
		LoE2/Argon	2.2mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC	SC	S
			3.0mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC	SC	S
		LoE3/Air	2.2mm	Intercept	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC	SC	S
			3.0mm	Intercept	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC	SC	S
		LoE3/Argon	2.2mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	SC	S
			3.0mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	SC	S
7450	7451, 7452, 7453, 7462, 7463, 7466 Awning Window	Clear/Air	2.2mm	Intercept	0.45	0.54	-	-	-	-	0.45	0.49	-	-	-	-	
			3.0mm	Intercept	0.45	0.53	-	-	-	-	0.45	0.48	-	-	-	-	
		LoE2/Air	2.2mm	Intercept	0.33	0.29	-	-	SC	-	0.33	0.26	-	-	SC	SC	S
			3.0mm	Intercept	0.33	0.29	-	-	SC	-	0.33	0.26	-	-	SC	SC	S
		LoE2/Argon	2.2mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC	SC	S
			3.0mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC	SC	S
		LoE3/Air	2.2mm	Intercept	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC	SC	S
			3.0mm	Intercept	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC	SC	S
		LoE3/Argon	2.2mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	SC	S
			3.0mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	SC	S
7500	7501, 7502, 7503, 7504, 7506 Casement Window	Clear/Air	2.2mm	Intercept	0.45	0.55	-	-	-	-	0.45	0.50	-	-	-	-	
			3.0mm	Intercept	0.45	0.54	-	-	-	-	0.45	0.49	-	-	-	-	
		LoE2/Air	2.2mm	Intercept	0.33	0.29	-	-	SC	-	0.33	0.27	-	-	SC	SC	S
			3.0mm	Intercept	0.33	0.29	-	-	SC	-	0.33	0.26	-	-	SC	SC	S
		LoE2/Argon	2.2mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.27	N	NC	SC	SC	S
			3.0mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC	SC	S
		LoE3/Air	2.2mm	Intercept	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC	SC	S
			3.0mm	Intercept	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC	SC	S
		LoE3/Argon	2.2mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	SC	S
			3.0mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	SC	S
	7507, 7407 Fixed/Picture Window	Clear/Air	3.0mm	Intercept	0.46	0.65	-	-	-	-	0.46	0.56	-	-	-	-	
			4.0mm	Intercept	0.46	0.65	-	-	-	-	0.46	0.56	-	-	-	-	
		LoE2/Air	3.0mm	Intercept	0.32	0.33	-	NC	-	-	0.32	0.30	-	-	NC	SC	-
			4.0mm	Intercept	0.32	0.33	-	NC	-	-	0.32	0.30	-	-	NC	SC	-
		LoE2/Argon	3.0mm	Intercept	0.28	0.33	N	NC	-	-	0.28	0.30	N	NC	SC	SC	-
			4.0mm	Intercept	0.28	0.33	N	NC	-	-	0.28	0.30	N	NC	SC	SC	-
		LoE3/Air	3.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.32	0.23	-	-	NC	SC	S
			4.0mm	Intercept	0.32	0.26	-	NC	SC	S	0.32	0.23	-	-	NC	SC	S
LoE3/Argon	3.0mm	Intercept	0.28	0.25	N	NC	SC	S	0.28	0.23	N	NC	SC	SC	S		
	4.0mm	Intercept	0.28	0.25	N	NC	SC	S	0.28	0.23	N	NC	SC	SC	S		

Thermal Performance Data

Product Series	Product Line(s)	Glass Type/ Infill	Glass Thickness	Spacer	No Grilles				w/Grilles									
					U-Factor	SHGC	ENERGY STAR Qualified Zone(s)		U-Factor	SHGC	ENERGY STAR Qualified Zone(s)							
7550	7551, 7552, 7553, 7554, 7556, 7561, 7562, 7563, 7564, 7566 Casement Window	Clear/Air	2.2mm	Intercept	0.45	0.54	-	-	-	-	0.45	0.49	-	-	-	-		
			3.0mm	Intercept	0.45	0.53	-	-	-	-	0.45	0.48	-	-	-	-		
		LoE2/Air	2.2mm	Intercept	0.34	0.29	-	-	SC	-	0.34	0.26	-	-	SC	S		
			3.0mm	Intercept	0.33	0.29	-	-	SC	-	0.33	0.26	-	-	SC	S		
		LoE2/Argon	2.2mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC	S		
			3.0mm	Intercept	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC	S		
		LoE3/Air	2.2mm	Intercept	0.34	0.22	-	-	SC	S	0.34	0.20	-	-	SC	S		
			3.0mm	Intercept	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC	S		
		LoE3/Argon	2.2mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	S		
			3.0mm	Intercept	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	S		
		7570, 7570TR, 7570TW, 7561, 7562, 7563, 7564, 7566, 7571L/C/R, 7572, 7573, 7580, 7582, 7583, 7584, 7586, 7587, 7588, 7599 Fixed/Picture Window & Geometric Shapes	Clear/Air	3.0mm	SuperSpacer	0.46	0.62	-	-	-	-	0.46	0.58	-	-	-	-	
				4.0mm	SuperSpacer	0.46	0.62	-	-	-	-	0.46	0.58	-	-	-	-	
	LoE2/Air		3.0mm	SuperSpacer	0.32	0.33	-	NC	-	-	0.32	0.30	-	NC	SC	-		
			4.0mm	SuperSpacer	0.32	0.33	-	NC	-	-	0.32	0.30	-	NC	SC	-		
	LoE2/Argon		3.0mm	SuperSpacer	0.28	0.33	N	NC	-	-	0.28	0.30	N	NC	SC	-		
			4.0mm	SuperSpacer	0.28	0.33	N	NC	-	-	0.28	0.29	N	NC	SC	-		
	LoE3/Air		3.0mm	SuperSpacer	0.31	0.25	-	NC	SC	S	0.31	0.23	-	NC	SC	S		
			4.0mm	SuperSpacer	0.31	0.25	-	NC	SC	S	0.31	0.23	-	NC	SC	S		
	LoE3/Argon		3.0mm	SuperSpacer	0.28	0.25	N	NC	SC	S	0.28	0.23	N	NC	SC	S		
			4.0mm	SuperSpacer	0.28	0.25	N	NC	SC	S	0.28	0.23	N	NC	SC	S		
	8500		8501 Double-Hung	Clear/Air	2.2mm	Intercept	0.48	0.60	-	-	-	-	0.48	0.54	-	-	-	-
					3.0mm	Intercept	0.47	0.59	-	-	-	-	0.47	0.53	-	-	-	-
		LoE2/Air		2.2mm	Intercept	0.34	0.32	-	-	-	-	0.34	0.29	-	-	SC	-	
				3.0mm	Intercept	0.34	0.32	-	-	-	-	0.34	0.29	-	-	SC	-	
LoE2/Argon		2.2mm		Intercept	0.31	0.32	-	NC	-	-	0.31	0.29	-	NC	SC	-		
		3.0mm		Intercept	0.31	0.32	-	NC	-	-	0.31	0.29	-	NC	SC	-		
LoE3/Air		2.2mm		Intercept	0.34	0.24	-	-	SC	S	0.34	0.22	-	-	SC	S		
		3.0mm		Intercept	0.34	0.24	-	-	SC	S	0.34	0.22	-	-	SC	S		
LoE3/Argon		2.2mm		Intercept	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S		
		3.0mm		Intercept	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S		
8700, 8803, 8804 Horizontal Sliding Window		Clear/Air		2.2mm	Intercept	0.47	0.60	-	-	-	-	0.47	0.53	-	-	-	-	
				3.0mm	Intercept	0.47	0.59	-	-	-	-	0.47	0.52	-	-	-	-	
		LoE2/Air	2.2mm	Intercept	0.34	0.32	-	-	-	-	0.34	0.29	-	-	SC	-		
			3.0mm	Intercept	0.34	0.32	-	-	-	-	0.34	0.28	-	-	SC	-		
		LoE2/Argon	2.2mm	Intercept	0.31	0.32	-	NC	-	-	0.31	0.28	-	NC	SC	-		
			3.0mm	Intercept	0.31	0.31	-	NC	-	-	0.31	0.28	-	NC	SC	-		
		LoE3/Air	2.2mm	Intercept	0.34	0.24	-	-	SC	S	0.34	0.22	-	-	SC	S		
			3.0mm	Intercept	0.34	0.24	-	-	SC	S	0.34	0.22	-	-	SC	S		
		LoE3/Argon	2.2mm	Intercept	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S		
			3.0mm	Intercept	0.30	0.24	N	NC	SC	S	0.30	0.21	N	NC	SC	S		
		9500 Double-Hung	Clear/Air	2.2mm	Intercept	0.48	0.60	-	-	-	-	0.48	0.54	-	-	-	-	
				3.0mm	Intercept	0.47	0.59	-	-	-	-	0.47	0.53	-	-	-	-	
LoE2/Air			2.2mm	Intercept	0.34	0.32	-	-	-	-	0.34	0.29	-	-	SC	-		
			3.0mm	Intercept	0.34	0.32	-	-	-	-	0.34	0.29	-	-	SC	-		
LoE2/Argon	2.2mm		Intercept	0.31	0.32	-	NC	-	-	0.31	0.29	-	NC	SC	-			
	3.0mm		Intercept	0.31	0.32	-	NC	-	-	0.31	0.29	-	NC	SC	-			
LoE3/Air	2.2mm		Intercept	0.34	0.24	-	-	SC	S	0.34	0.22	-	-	SC	S			
	3.0mm		Intercept	0.34	0.24	-	-	SC	S	0.34	0.22	-	-	SC	S			
LoE3/Argon	2.2mm		Intercept	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S			
	3.0mm		Intercept	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S			