

ENERGY STAR Ratings - 9100 Apex

Fixed

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1 2 3	0.07	36	1.48	0.26	0.5	0.58	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.07	33	1.48	0.26	0.45	0.51	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.07	30	1.48	0.26	0.4	0.45	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.07	33	1.48	0.26	0.45	0.51	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.07	30	1.48	0.26	0.4	0.45	4 5 6 7A 7B 8
HS1V									
	None	1 2 3	0.07	39	1.25	0.22	0.46	0.56	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.07	36	1.25	0.22	0.41	0.5	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.07	33	1.25	0.22	0.36	0.44	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.07	36	1.25	0.22	0.41	0.5	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.07	33	1.25	0.22	0.36	0.44	4 5 6 7A 7B 8
HS4									
	None	1 2	0.07	24	1.42	0.25	0.27	0.51	4 5 6 7A
	Under 1" SDL	1 2	0.07	23	1.42	0.25	0.24	0.45	4 5 6 7A
	1" SDL And Over	1 2	0.07	21	1.42	0.25	0.22	0.4	4 5 6 7A
	Under 1" Grille	1 2	0.07	23	1.42	0.25	0.24	0.45	4 5 6 7A
	1" Grille And Over	1 2	0.07	21	1.42	0.25	0.22	0.4	4 5 6 7A
HS4V									
	None	1 2	0.07	28	1.25	0.22	0.27	0.5	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.07	26	1.25	0.22	0.24	0.44	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.07	25	1.25	0.22	0.21	0.39	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.07	26	1.25	0.22	0.24	0.44	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.07	25	1.25	0.22	0.21	0.39	4 5 6 7A 7B 8
HS2									
	None	1 2 3	0.07	41	1.14	0.2	0.45	0.53	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.07	38	1.14	0.2	0.4	0.47	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.07	36	1.14	0.2	0.36	0.41	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.07	38	1.14	0.2	0.4	0.47	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.07	36	1.14	0.2	0.36	0.41	4 5 6 7A 7B 8

Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1



ENERGY STAR Ratings - 9100 Apex

Fixed - Continued

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS3									
	None	1 2 3	0.07	42	0.97	0.17	0.41	0.51	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.07	40	0.97	0.17	0.37	0.45	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.07	38	0.97	0.17	0.33	0.4	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.07	40	0.97	0.17	0.37	0.45	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.07	38	0.97	0.17	0.33	0.4	4 5 6 7A 7B 8
HS5									
	None	1 2 3	0.07	29	1.14	0.2	0.25	0.47	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.07	28	1.14	0.2	0.23	0.41	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.07	26	1.14	0.2	0.2	0.36	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.07	28	1.14	0.2	0.23	0.41	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.07	26	1.14	0.2	0.2	0.36	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.07	33	0.91	0.16	0.23	0.4	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.07	32	0.91	0.16	0.21	0.35	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.07	31	0.91	0.16	0.19	0.31	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.07	32	0.91	0.16	0.21	0.35	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.07	31	0.91	0.16	0.19	0.31	4 5 6 7A 7B 8
Triple									
	None	1	0.07	27	1.65	0.29	0.41	0.43	4 5 6 7A
	Under 1" SDL	1	0.07	27	1.65	0.29	0.41	0.43	4 5 6 7A
	1" SDL And Over	1	0.07	27	1.65	0.29	0.41	0.43	4 5 6 7A
	Under 1" Grille	1 2	0.07	30	1.65	0.29	0.46	0.49	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.07	30	1.65	0.29	0.46	0.49	4 5 6 7A 7B 8


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1

ENERGY STAR Ratings - 9100 Apex

Picture

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1 2 3	0.01	37	1.53	0.27	0.54	0.62	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	34	1.53	0.27	0.48	0.55	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.01	31	1.53	0.27	0.43	0.49	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	34	1.53	0.27	0.48	0.55	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.01	31	1.53	0.27	0.43	0.49	4 5 6 7A 7B 8
HS1V									
	None	1 2 3	0.01	39	1.31	0.23	0.49	0.6	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	37	1.31	0.23	0.44	0.54	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	34	1.31	0.23	0.39	0.48	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	37	1.31	0.23	0.44	0.54	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	34	1.31	0.23	0.39	0.48	4 5 6 7A 7B 8
HS4									
	None	1	0.01	24	1.48	0.26	0.29	0.55	4 5 6 7A
	Under 1" SDL	1	0.01	22	1.48	0.26	0.26	0.49	4 5 6 7A
	1" SDL And Over	1	0.01	21	1.48	0.26	0.24	0.43	4 5 6 7A
	Under 1" Grille	1	0.01	22	1.48	0.26	0.26	0.49	4 5 6 7A
	1" Grille And Over	1	0.01	21	1.48	0.26	0.24	0.43	4 5 6 7A
HS4V									
	None	1 2	0.01	29	1.25	0.22	0.28	0.53	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.01	27	1.25	0.22	0.26	0.48	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.01	26	1.25	0.22	0.23	0.42	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.01	27	1.25	0.22	0.26	0.48	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.01	26	1.25	0.22	0.23	0.42	4 5 6 7A 7B 8
HS2									
	None	1 2 3	0.01	41	1.19	0.21	0.48	0.57	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	39	1.19	0.21	0.43	0.5	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	36	1.19	0.21	0.39	0.45	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	39	1.19	0.21	0.43	0.5	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	36	1.19	0.21	0.39	0.45	4 5 6 7A 7B 8


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1

ENERGY STAR Ratings - 9100 Apex

Picture - Continued

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS3									
	None	1 2 3	0.01	44	0.97	0.17	0.44	0.54	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	42	0.97	0.17	0.4	0.49	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	39	0.97	0.17	0.35	0.43	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	42	0.97	0.17	0.4	0.49	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	39	0.97	0.17	0.35	0.43	4 5 6 7A 7B 8
HS5									
	None	1 2 3	0.01	29	1.19	0.21	0.27	0.5	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	28	1.19	0.21	0.24	0.45	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	26	1.19	0.21	0.22	0.39	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	28	1.19	0.21	0.24	0.45	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	26	1.19	0.21	0.22	0.39	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.01	34	0.91	0.16	0.25	0.43	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	33	0.91	0.16	0.22	0.38	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	31	0.91	0.16	0.2	0.34	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	33	0.91	0.16	0.22	0.38	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	31	0.91	0.16	0.2	0.34	4 5 6 7A 7B 8
Triple									
	None	1 2 3	0.01	34	1.7	0.3	0.55	0.59	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.01	31	1.7	0.3	0.49	0.52	4 5 6 7A 7B 8
	1" SDL And Over	1	0.01	28	1.7	0.3	0.44	0.46	4 5 6 7A
	Under 1" Grille	1 2	0.01	31	1.7	0.3	0.49	0.52	4 5 6 7A 7B 8
	1" Grille And Over	1	0.01	28	1.7	0.3	0.44	0.46	4 5 6 7A


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1

ENERGY STAR Ratings - 9100 Apex

Awning - Exterior Glaze Sash

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1 2	0.16	29	1.59	0.28	0.42	0.48	4 5 6 7A 7B 8
	Under 1" SDL	1	0.16	27	1.59	0.28	0.38	0.43	4 5 6 7A
	1" SDL And Over	1	0.16	25	1.59	0.28	0.34	0.38	4 5 6 7A
	Under 1" Grille	1	0.16	27	1.59	0.28	0.38	0.43	4 5 6 7A
	1" Grille And Over	1	0.16	25	1.59	0.28	0.34	0.38	4 5 6 7A
HS1V									
	None	1 2	0.16	31	1.42	0.25	0.38	0.47	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.16	29	1.42	0.25	0.35	0.42	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.16	27	1.42	0.25	0.31	0.37	4 5 6 7A
	Under 1" Grille	1 2	0.16	29	1.42	0.25	0.35	0.42	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.16	27	1.42	0.25	0.31	0.37	4 5 6 7A
HS4									
	None	1	0.16	20	1.53	0.27	0.23	0.42	4 5 6 7A
	Under 1" SDL	1	0.16	18	1.53	0.27	0.21	0.38	4 5 6 7A
	1" SDL And Over	1	0.16	17	1.53	0.27	0.19	0.34	4 5 6 7A
	Under 1" Grille	1	0.16	18	1.53	0.27	0.21	0.38	4 5 6 7A
	1" Grille And Over	1	0.16	17	1.53	0.27	0.19	0.34	4 5 6 7A
HS4V									
	None	1 2	0.16	23	1.36	0.24	0.22	0.41	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.16	22	1.36	0.24	0.2	0.37	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.16	20	1.36	0.24	0.18	0.33	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.16	22	1.36	0.24	0.2	0.37	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.16	20	1.36	0.24	0.18	0.33	4 5 6 7A 7B 8


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1

ENERGY STAR Ratings - 9100 Apex

Awning - Interior Glaze Sash

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1 2	0.16	30	1.53	0.27	0.41	0.46	4 5 6 7A 7B 8
	Under 1" SDL	1	0.16	28	1.53	0.27	0.37	0.41	4 5 6 7A
	1" SDL And Over	1	0.16	25	1.53	0.27	0.33	0.37	4 5 6 7A
	Under 1" Grille	1	0.16	28	1.53	0.27	0.37	0.41	4 5 6 7A
	1" Grille And Over	1	0.16	25	1.53	0.27	0.33	0.37	4 5 6 7A
HS1V									
	None	1 2	0.16	31	1.36	0.24	0.37	0.45	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.16	29	1.36	0.24	0.33	0.4	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.16	27	1.36	0.24	0.3	0.36	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.16	29	1.36	0.24	0.33	0.4	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.16	27	1.36	0.24	0.3	0.36	4 5 6 7A 7B 8
HS4									
	None	1	0.16	20	1.48	0.26	0.22	0.41	4 5 6 7A
	Under 1" SDL	1	0.16	19	1.48	0.26	0.2	0.37	4 5 6 7A
	1" SDL And Over	1	0.16	18	1.48	0.26	0.18	0.33	4 5 6 7A
	Under 1" Grille	1	0.16	19	1.48	0.26	0.2	0.37	4 5 6 7A
	1" Grille And Over	1	0.16	18	1.48	0.26	0.18	0.33	4 5 6 7A
HS4V									
	None	1 2	0.16	24	1.31	0.23	0.22	0.4	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.16	23	1.31	0.23	0.2	0.36	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.16	22	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.16	23	1.31	0.23	0.2	0.36	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.16	22	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
HS2									
	None	1 2 3	0.16	35	1.19	0.21	0.37	0.42	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.16	33	1.19	0.21	0.33	0.38	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.16	31	1.19	0.21	0.3	0.34	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.16	33	1.19	0.21	0.33	0.38	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.16	31	1.19	0.21	0.3	0.34	4 5 6 7A 7B 8

Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1



ENERGY STAR Ratings - 9100 Apex

Awning - Interior Glaze Sash - Continued

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS3									
	None	1 2 3	0.16	37	1.02	0.18	0.33	0.41	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.16	35	1.02	0.18	0.3	0.37	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.16	33	1.02	0.18	0.27	0.33	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.16	35	1.02	0.18	0.3	0.37	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.16	33	1.02	0.18	0.27	0.33	4 5 6 7A 7B 8
HS5									
	None	1 2 3	0.16	25	1.19	0.21	0.2	0.37	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.16	25	1.19	0.21	0.19	0.34	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.16	24	1.19	0.21	0.17	0.3	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.16	25	1.19	0.21	0.19	0.34	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.16	24	1.19	0.21	0.17	0.3	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.16	28	1.02	0.18	0.19	0.32	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.16	27	1.02	0.18	0.17	0.29	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.16	27	1.02	0.18	0.16	0.25	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.16	27	1.02	0.18	0.17	0.29	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.16	27	1.02	0.18	0.16	0.25	4 5 6 7A 7B 8
Triple									
	None	1	0.16	28	1.65	0.29	0.42	0.44	4 5 6 7A
	Under 1" SDL	1	0.16	26	1.65	0.29	0.38	0.39	4 5 6 7A
	1" SDL And Over	No/non	0.16	23	1.65	0.29	0.34	0.35	4 5
	Under 1" Grille	1	0.16	26	1.65	0.29	0.38	0.39	4 5 6 7A
	1" Grille And Over	No/non	0.16	23	1.65	0.29	0.34	0.35	4 5


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1

ENERGY STAR Ratings - 9100 Apex

Casement - Exterior Glaze Sash

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1 2	0.24	30	1.53	0.27	0.42	0.48	4 5 6 7A 7B 8
	Under 1" SDL	1	0.24	28	1.53	0.27	0.38	0.43	4 5 6 7A
	1" SDL And Over	1	0.24	26	1.53	0.27	0.34	0.38	4 5 6 7A
	Under 1" Grille	1	0.24	28	1.53	0.27	0.38	0.43	4 5 6 7A
	1" Grille And Over	1	0.24	26	1.53	0.27	0.34	0.38	4 5 6 7A
HS1V									
	None	1 2	0.24	32	1.36	0.24	0.38	0.47	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.24	30	1.36	0.24	0.35	0.42	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.24	28	1.36	0.24	0.31	0.37	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.24	30	1.36	0.24	0.35	0.42	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.24	28	1.36	0.24	0.31	0.37	4 5 6 7A 7B 8
HS4									
	None	1	0.24	19	1.53	0.27	0.23	0.42	4 5 6 7A
	Under 1" SDL	1	0.24	18	1.53	0.27	0.21	0.38	4 5 6 7A
	1" SDL And Over	1	0.24	17	1.53	0.27	0.19	0.34	4 5 6 7A
	Under 1" Grille	1	0.24	18	1.53	0.27	0.21	0.38	4 5 6 7A
	1" Grille And Over	1	0.24	17	1.53	0.27	0.19	0.34	4 5 6 7A
HS4V									
	None	1 2	0.24	22	1.36	0.24	0.22	0.41	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.24	21	1.36	0.24	0.2	0.37	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.24	20	1.36	0.24	0.18	0.33	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.24	21	1.36	0.24	0.2	0.37	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.24	20	1.36	0.24	0.18	0.33	4 5 6 7A 7B 8


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1

ENERGY STAR Ratings - 9100 Apex

Casement - Interior Glaze Sash

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1 2	0.24	31	1.48	0.26	0.41	0.46	4 5 6 7A 7B 8
	Under 1" SDL	1	0.24	28	1.48	0.26	0.37	0.41	4 5 6 7A
	1" SDL And Over	1	0.24	26	1.48	0.26	0.33	0.37	4 5 6 7A
	Under 1" Grille	1	0.24	28	1.48	0.26	0.37	0.41	4 5 6 7A
	1" Grille And Over	1	0.24	26	1.48	0.26	0.33	0.37	4 5 6 7A
HS1V									
	None	1 2	0.24	32	1.31	0.23	0.37	0.45	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.24	30	1.31	0.23	0.33	0.4	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.24	28	1.31	0.23	0.3	0.36	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.24	30	1.31	0.23	0.33	0.4	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.24	28	1.31	0.23	0.3	0.36	4 5 6 7A 7B 8
HS4									
	None	1	0.24	20	1.48	0.26	0.22	0.41	4 5 6 7A
	Under 1" SDL	1	0.24	19	1.48	0.26	0.2	0.37	4 5 6 7A
	1" SDL And Over	1	0.24	17	1.48	0.26	0.18	0.33	4 5 6 7A
	Under 1" Grille	1	0.24	19	1.48	0.26	0.2	0.37	4 5 6 7A
	1" Grille And Over	1	0.24	17	1.48	0.26	0.18	0.33	4 5 6 7A
HS4V									
	None	1 2	0.24	23	1.31	0.23	0.22	0.4	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.24	22	1.31	0.23	0.2	0.36	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.24	21	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.24	22	1.31	0.23	0.2	0.36	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.24	21	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
HS2									
	None	1 2 3	0.24	34	1.19	0.21	0.36	0.42	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.24	32	1.19	0.21	0.33	0.38	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.24	31	1.19	0.21	0.3	0.34	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.24	32	1.19	0.21	0.33	0.38	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.24	31	1.19	0.21	0.3	0.34	4 5 6 7A 7B 8


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1

ENERGY STAR Ratings - 9100 Apex

Casement - Interior Glaze Sash - Continued

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS3									
	None	1 2 3	0.24	36	1.02	0.18	0.33	0.41	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.24	34	1.02	0.18	0.3	0.37	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.24	33	1.02	0.18	0.27	0.33	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.24	34	1.02	0.18	0.3	0.37	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.24	33	1.02	0.18	0.27	0.33	4 5 6 7A 7B 8
HS5									
	None	1 2 3	0.24	25	1.19	0.21	0.2	0.37	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.24	24	1.19	0.21	0.19	0.34	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.24	23	1.19	0.21	0.17	0.3	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.24	24	1.19	0.21	0.19	0.34	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.24	23	1.19	0.21	0.17	0.3	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.24	28	1.02	0.18	0.19	0.32	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.24	27	1.02	0.18	0.17	0.29	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.24	26	1.02	0.18	0.16	0.25	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.24	27	1.02	0.18	0.17	0.29	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.24	26	1.02	0.18	0.16	0.25	4 5 6 7A 7B 8


Legend:

Standards: U-Values = NFRC 100-1;

SHGC (Solar Heat Gain Coefficient) / VT (Visible Transmittance) = NFRC 200-1