

# ENERGY STAR Ratings - 9950 Apex Alloy

## Awning

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1	0.24	28	1.59	0.28	0.39	0.45	4 5 6 7A
	Under 1" SDL	1	0.24	26	1.59	0.28	0.36	0.4	4 5 6 7A
	1" SDL And Over	1	0.24	23	1.59	0.28	0.32	0.36	4 5 6 7A
	Under 1" Grille	1	0.24	26	1.59	0.28	0.36	0.4	4 5 6 7A
	1" Grille And Over	1	0.24	23	1.59	0.28	0.32	0.36	4 5 6 7A
HS1V									
	None	1 2	0.24	29	1.42	0.25	0.36	0.44	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.24	27	1.42	0.25	0.32	0.39	4 5 6 7A
	1" SDL And Over	1 2	0.24	25	1.42	0.25	0.29	0.35	4 5 6 7A
	Under 1" Grille	1 2	0.24	27	1.42	0.25	0.32	0.39	4 5 6 7A
	1" Grille And Over	1 2	0.24	25	1.42	0.25	0.29	0.35	4 5 6 7A
HS4									
	None	1	0.24	17	1.59	0.28	0.21	0.4	4 5 6 7A
	Under 1" SDL	1	0.24	17	1.59	0.28	0.2	0.35	4 5 6 7A
	1" SDL And Over	No/non	0.24	15	1.59	0.28	0.18	0.32	4 5 6 7A
	Under 1" Grille	1	0.24	17	1.59	0.28	0.2	0.35	4 5 6 7A
	1" Grille And Over	No/non	0.24	15	1.59	0.28	0.18	0.32	4 5 6 7A
HS4V									
	None	1 2	0.24	21	1.42	0.25	0.21	0.39	4 5 6 7A
	Under 1" SDL	1 2	0.24	20	1.42	0.25	0.19	0.35	4 5 6 7A
	1" SDL And Over	1	0.24	19	1.42	0.25	0.17	0.31	4 5 6 7A
	Under 1" Grille	1 2	0.24	20	1.42	0.25	0.19	0.35	4 5 6 7A
	1" Grille And Over	1	0.24	19	1.42	0.25	0.17	0.31	4 5 6 7A
HS2									
	None	1 2	0.24	31	1.31	0.23	0.35	0.41	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.24	30	1.31	0.23	0.32	0.37	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.24	28	1.31	0.23	0.29	0.33	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.24	30	1.31	0.23	0.32	0.37	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.24	28	1.31	0.23	0.29	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 - 9950 Apex Alloy

## Awning Con't.

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	33	1.14	0.2	0.32	0.39	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.24	32	1.14	0.2	0.29	0.35	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.24	30	1.14	0.2	0.26	0.31	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.24	32	1.14	0.2	0.29	0.35	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.24	30	1.14	0.2	0.26	0.31	4 5 6 7A 7B 8
HS5									
	None	1 2	0.24	23	1.31	0.23	0.2	0.36	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.24	22	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.24	20	1.31	0.23	0.16	0.29	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.24	22	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.24	20	1.31	0.23	0.16	0.29	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.24	25	1.14	0.2	0.18	0.31	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.24	25	1.14	0.2	0.17	0.28	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.24	24	1.14	0.2	0.15	0.25	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.24	25	1.14	0.2	0.17	0.28	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.24	24	1.14	0.2	0.15	0.25	4 5 6 7A 7B 8
Triple									
	None	1	0.24	26	1.7	0.3	0.4	0.43	4 5 6 7A
	Under 1" SDL	No/non	0.24	23	1.7	0.3	0.36	0.38	4 5
	1" SDL And Over	No/non	0.24	22	1.7	0.3	0.33	0.34	4 5
	Under 1" Grille	No/non	0.24	23	1.7	0.3	0.36	0.38	4 5
	1" Grille And Over	No/non	0.24	22	1.7	0.3	0.33	0.34	4 5


**Legend:**

Standards: U-Values = NFRC 100-1;

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

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## Casement

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
HS1									
	None	1	0.1	28	1.59	0.28	0.39	0.45	4 5 6 7A
	Under 1" SDL	1	0.1	26	1.59	0.28	0.36	0.4	4 5 6 7A
	1" SDL And Over	1	0.1	23	1.59	0.28	0.32	0.36	4 5 6 7A
	Under 1" Grille	1	0.1	26	1.59	0.28	0.36	0.4	4 5 6 7A
	1" Grille And Over	1	0.1	23	1.59	0.28	0.32	0.36	4 5 6 7A
HS1V									
	None	1 2	0.1	29	1.42	0.25	0.36	0.44	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.1	27	1.42	0.25	0.32	0.39	4 5 6 7A
	1" SDL And Over	1 2	0.1	25	1.42	0.25	0.29	0.35	4 5 6 7A
	Under 1" Grille	1 2	0.1	27	1.42	0.25	0.32	0.39	4 5 6 7A
	1" Grille And Over	1 2	0.1	25	1.42	0.25	0.29	0.35	4 5 6 7A
HS4									
	None	1	0.1	18	1.53	0.27	0.21	0.4	4 5 6 7A
	Under 1" SDL	1	0.1	17	1.53	0.27	0.19	0.35	4 5 6 7A
	1" SDL And Over	1	0.1	17	1.53	0.27	0.18	0.32	4 5 6 7A
	Under 1" Grille	1	0.1	17	1.53	0.27	0.19	0.35	4 5 6 7A
	1" Grille And Over	1	0.1	17	1.53	0.27	0.18	0.32	4 5 6 7A
HS4V									
	None	1 2	0.1	22	1.36	0.24	0.21	0.39	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.1	21	1.36	0.24	0.19	0.35	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.1	20	1.36	0.24	0.17	0.31	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.1	21	1.36	0.24	0.19	0.35	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.1	20	1.36	0.24	0.17	0.31	4 5 6 7A 7B 8
HS2									
	None	1 2	0.1	31	1.31	0.23	0.35	0.41	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.1	30	1.31	0.23	0.32	0.37	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.1	28	1.31	0.23	0.29	0.33	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.1	30	1.31	0.23	0.32	0.37	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.1	28	1.31	0.23	0.29	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



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## Casement Con't.

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	0.1	33	1.14	0.2	0.32	0.39	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.1	32	1.14	0.2	0.29	0.35	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.1	30	1.14	0.2	0.26	0.31	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.1	32	1.14	0.2	0.29	0.35	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.1	30	1.14	0.2	0.26	0.31	4 5 6 7A 7B 8
HS5									
	None	1 2	0.1	23	1.31	0.23	0.2	0.36	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.1	22	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.1	20	1.31	0.23	0.16	0.29	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.1	22	1.31	0.23	0.18	0.32	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.1	20	1.31	0.23	0.16	0.29	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.1	27	1.08	0.19	0.18	0.31	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.1	26	1.08	0.19	0.17	0.28	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.1	25	1.08	0.19	0.15	0.25	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.1	26	1.08	0.19	0.17	0.28	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.1	25	1.08	0.19	0.15	0.25	4 5 6 7A 7B 8
Triple									
	None	1	0.1	26	1.7	0.3	0.4	0.43	4 5 6 7A
	Under 1" SDL	No/non	0.1	23	1.7	0.3	0.36	0.38	4 5
	1" SDL And Over	No/non	0.1	22	1.7	0.3	0.33	0.34	4 5
	Under 1" Grille	No/non	0.1	23	1.7	0.3	0.36	0.38	4 5
	1" Grille And Over	No/non	0.1	22	1.7	0.3	0.33	0.34	4 5


**Legend:**

Standards: U-Values = NFRC 100-1;

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

# ENERGY STAR Ratings - 9950 Apex Alloy

## 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	0.14	34	1.53	0.27	0.49	0.57	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.14	32	1.53	0.27	0.44	0.5	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.14	29	1.53	0.27	0.39	0.44	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.14	32	1.53	0.27	0.44	0.5	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.14	29	1.53	0.27	0.39	0.44	4 5 6 7A 7B 8
HS1V									
	None	1 2 3	0.14	37	1.31	0.23	0.45	0.55	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.14	34	1.31	0.23	0.4	0.49	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.14	32	1.31	0.23	0.36	0.43	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.14	34	1.31	0.23	0.4	0.49	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.14	32	1.31	0.23	0.36	0.43	4 5 6 7A 7B 8
HS4									
	None	1	0.14	23	1.48	0.26	0.27	0.5	4 5 6 7A
	Under 1" SDL	1	0.14	21	1.48	0.26	0.24	0.44	4 5 6 7A
	1" SDL And Over	1	0.14	19	1.48	0.26	0.21	0.39	4 5 6 7A
	Under 1" Grille	1	0.14	21	1.48	0.26	0.24	0.44	4 5 6 7A
	1" Grille And Over	1	0.14	19	1.48	0.26	0.21	0.39	4 5 6 7A
HS4V									
	None	1 2	0.14	26	1.31	0.23	0.26	0.49	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.14	25	1.31	0.23	0.24	0.43	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.14	23	1.31	0.23	0.21	0.38	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.14	25	1.31	0.23	0.24	0.43	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.14	23	1.31	0.23	0.21	0.38	4 5 6 7A 7B 8
HS2									
	None	1 2 3	0.14	39	1.19	0.21	0.44	0.52	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.14	37	1.19	0.21	0.4	0.46	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.14	34	1.19	0.21	0.35	0.4	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.14	37	1.19	0.21	0.4	0.46	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.14	34	1.19	0.21	0.35	0.4	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 - 9950 Apex Alloy

## Fixed Con't.

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
<b>HS3</b>									
	None	1 2 3	0.14	40	1.02	0.18	0.4	0.5	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.14	38	1.02	0.18	0.36	0.44	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.14	36	1.02	0.18	0.32	0.39	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.14	38	1.02	0.18	0.36	0.44	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.14	36	1.02	0.18	0.32	0.39	4 5 6 7A 7B 8
<b>HS5</b>									
	None	1 2 3	0.14	28	1.19	0.21	0.25	0.46	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.14	26	1.19	0.21	0.22	0.41	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.14	25	1.19	0.21	0.2	0.36	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.14	26	1.19	0.21	0.22	0.41	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.14	25	1.19	0.21	0.2	0.36	4 5 6 7A 7B 8
<b>HS6</b>									
	None	1 2 3	0.14	32	0.97	0.17	0.23	0.39	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.14	30	0.97	0.17	0.2	0.35	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.14	29	0.97	0.17	0.18	0.3	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.14	30	0.97	0.17	0.2	0.35	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.14	29	0.97	0.17	0.18	0.3	4 5 6 7A 7B 8
<b>Triple</b>									
	None	1 2	0.14	32	1.7	0.3	0.51	0.54	4 5 6 7A 7B 8
	Under 1" SDL	1	0.14	28	1.7	0.3	0.45	0.48	4 5 6 7A
	1" SDL And Over	1	0.14	25	1.7	0.3	0.4	0.42	4 5 6 7A
	Under 1" Grille	1	0.14	28	1.7	0.3	0.45	0.48	4 5 6 7A
	1" Grille And Over	1	0.14	25	1.7	0.3	0.4	0.42	4 5 6 7A



**Legend:**

Standards: U-Values = NFRC 100-1;

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

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## Picture

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
<b>HS1</b>									
	None	1 2 3	0.01	36	1.59	0.28	0.53	0.61	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.01	32	1.59	0.28	0.47	0.54	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.01	29	1.59	0.28	0.42	0.48	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.01	32	1.59	0.28	0.47	0.54	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.01	29	1.59	0.28	0.42	0.48	4 5 6 7A 7B 8
<b>HS1V</b>									
	None	1 2 3	0.01	38	1.36	0.24	0.48	0.59	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	35	1.36	0.24	0.43	0.53	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.01	33	1.36	0.24	0.39	0.47	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	35	1.36	0.24	0.43	0.53	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.01	33	1.36	0.24	0.39	0.47	4 5 6 7A 7B 8
<b>HS4</b>									
	None	1	0.01	23	1.53	0.27	0.29	0.54	4 5 6 7A
	Under 1" SDL	1	0.01	21	1.53	0.27	0.26	0.48	4 5 6 7A
	1" SDL And Over	1	0.01	20	1.53	0.27	0.23	0.42	4 5 6 7A
	Under 1" Grille	1	0.01	21	1.53	0.27	0.26	0.48	4 5 6 7A
	1" Grille And Over	1	0.01	20	1.53	0.27	0.23	0.42	4 5 6 7A
<b>HS4V</b>									
	None	1 2	0.01	27	1.31	0.23	0.28	0.53	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.01	26	1.31	0.23	0.25	0.47	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.01	24	1.31	0.23	0.23	0.41	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.01	26	1.31	0.23	0.25	0.47	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.01	24	1.31	0.23	0.23	0.41	4 5 6 7A 7B 8
<b>HS2</b>									
	None	1 2 3	0.01	40	1.25	0.22	0.47	0.56	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	37	1.25	0.22	0.43	0.5	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	34	1.25	0.22	0.38	0.44	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	37	1.25	0.22	0.43	0.5	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	34	1.25	0.22	0.38	0.44	4 5 6 7A 7B 8

### Legend:

Standards: U-Values = NFRC 100-1;

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## Picture Con't.

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	42	1.02	0.18	0.43	0.54	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	40	1.02	0.18	0.39	0.48	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	38	1.02	0.18	0.35	0.42	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	40	1.02	0.18	0.39	0.48	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	38	1.02	0.18	0.35	0.42	4 5 6 7A 7B 8
HS5									
	None	1 2	0.01	27	1.25	0.22	0.26	0.49	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.01	26	1.25	0.22	0.24	0.44	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.01	25	1.25	0.22	0.21	0.39	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.01	26	1.25	0.22	0.24	0.44	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.01	25	1.25	0.22	0.21	0.39	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.01	32	0.97	0.17	0.24	0.42	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.01	31	0.97	0.17	0.22	0.37	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.01	30	0.97	0.17	0.2	0.33	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.01	31	0.97	0.17	0.22	0.37	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.01	30	0.97	0.17	0.2	0.33	4 5 6 7A 7B 8
Triple									
	None	1 2	0.01	31	1.82	0.32	0.54	0.58	4 5 6 7A 7B 8
	Under 1" SDL	1	0.01	28	1.82	0.32	0.49	0.51	4 5 6 7A
	1" SDL And Over	1	0.01	25	1.82	0.32	0.43	0.46	4 5 6 7A
	Under 1" Grille	1	0.01	28	1.82	0.32	0.49	0.51	4 5 6 7A
	1" Grille And Over	1	0.01	25	1.82	0.32	0.43	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 - 9950 Apex Alloy

## Radius/Polygons - Picture

GLAZING	GRILLES	ENERGY STAR ZONE	AIR RATING	ENERGY RATING	U-VALUE (Metric)	U-VALUE (Imperial)	SHGC	VT	9.36 CODE ZONES
<b>HS1</b>									
	None	1 2 3	0.11	37	1.7	0.3	0.6	0.69	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.11	34	1.7	0.3	0.54	0.61	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.11	30	1.7	0.3	0.48	0.55	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.11	34	1.7	0.3	0.54	0.61	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.11	30	1.7	0.3	0.48	0.55	4 5 6 7A 7B 8
<b>HS1V</b>									
	None	1 2 3	0.11	40	1.42	0.25	0.54	0.67	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.11	37	1.42	0.25	0.49	0.6	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.11	34	1.42	0.25	0.44	0.54	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.11	37	1.42	0.25	0.49	0.6	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.11	34	1.42	0.25	0.44	0.54	4 5 6 7A 7B 8
<b>HS4</b>									
	None	No/non	0.11	22	1.65	0.29	0.32	0.61	4 5
	Under 1" SDL	No/non	0.11	20	1.65	0.29	0.29	0.54	4 5
	1" SDL And Over	No/non	0.11	19	1.65	0.29	0.26	0.48	4 5
	Under 1" Grille	No/non	0.11	20	1.65	0.29	0.29	0.54	4 5
	1" Grille And Over	No/non	0.11	19	1.65	0.29	0.26	0.48	4 5
<b>HS4V</b>									
	None	1 2	0.11	29	1.36	0.24	0.32	0.59	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.11	27	1.36	0.24	0.29	0.53	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.11	25	1.36	0.24	0.26	0.47	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.11	27	1.36	0.24	0.29	0.53	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.11	25	1.36	0.24	0.26	0.47	4 5 6 7A 7B 8
<b>HS2</b>									
	None	1 2 3	0.11	43	1.25	0.22	0.53	0.63	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.11	40	1.25	0.22	0.48	0.56	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.11	37	1.25	0.22	0.43	0.5	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.11	40	1.25	0.22	0.48	0.56	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.11	37	1.25	0.22	0.43	0.5	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 - 9950 Apex Alloy

## Radius/Polygons - Picture Con't.

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	0.11	46	1.02	0.18	0.49	0.6	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.11	43	1.02	0.18	0.44	0.54	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.11	41	1.02	0.18	0.4	0.48	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.11	43	1.02	0.18	0.44	0.54	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.11	41	1.02	0.18	0.4	0.48	4 5 6 7A 7B 8
HS5									
	None	1 2	0.11	30	1.25	0.22	0.3	0.55	4 5 6 7A 7B 8
	Under 1" SDL	1 2	0.11	28	1.25	0.22	0.27	0.5	4 5 6 7A 7B 8
	1" SDL And Over	1 2	0.11	26	1.25	0.22	0.24	0.44	4 5 6 7A 7B 8
	Under 1" Grille	1 2	0.11	28	1.25	0.22	0.27	0.5	4 5 6 7A 7B 8
	1" Grille And Over	1 2	0.11	26	1.25	0.22	0.24	0.44	4 5 6 7A 7B 8
HS6									
	None	1 2 3	0.11	34	0.97	0.17	0.27	0.47	4 5 6 7A 7B 8
	Under 1" SDL	1 2 3	0.11	33	0.97	0.17	0.25	0.42	4 5 6 7A 7B 8
	1" SDL And Over	1 2 3	0.11	31	0.97	0.17	0.22	0.38	4 5 6 7A 7B 8
	Under 1" Grille	1 2 3	0.11	33	0.97	0.17	0.25	0.42	4 5 6 7A 7B 8
	1" Grille And Over	1 2 3	0.11	31	0.97	0.17	0.22	0.38	4 5 6 7A 7B 8


**Legend:**

Standards: U-Values = NFRC 100-1;

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