



## Thermal Testing Summary

### Double Hung

Double Hung Model	Glass Package <sup>10</sup>	Glazing	Spacer	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	VT <sup>3</sup>	CRF <sup>9</sup>	Energy Star Qualified <sup>4</sup>	Federal Tax Credit Approved <sup>5</sup>
9400 Arch CompositWood®	Low E/Argon	Dual	Duralite	.25	.27	.49	61	Yes	Yes
9400 Arch CompositWood®	Low E/Argon with Grids	Dual	Duralite	.25	.24	.44	61	Yes	Yes
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 <sup>9</sup>	Dual	Duralite	.21	.27	.48	50	Yes	Yes
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 with Grids <sup>9</sup>	Dual	Duralite	.22	.24	.42	50	Yes	Yes
9400 Arch CompositWood®	Low E/Spec mix + Spec Low E Surface 4 <sup>9</sup>	Dual	Duralite	.20	.26	.46	49	Yes	Yes
9400 Arch CompositWood®	Low E/Spec mix + Spec Low E Surface 4 <sup>9</sup> with Grids	Dual	Duralite	.21	.23	.41	49	Yes	Yes
9400 Arch CompositWood®	Fuel Saver	Triple	Duralite	.19	.22	.39	70	Yes	Yes
9400 Arch CompositWood®	Fuel Saver with Grids	Triple	Duralite	.19	.20	.34	70	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus	Triple	Duralite	.17	.21	.39	71	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus with Grids	Triple	Duralite	.17	.19	.34	71	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special*	Triple	Duralite	.15	.22	.39	73	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special with Grids	Triple	Duralite	.15	.20	.34	73	Yes	Yes

### Casement and Fixed Casement

Casement Model	Glass Package <sup>10</sup>	Glazing	Spacer	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	VT <sup>3</sup>	CRF <sup>9</sup>	Energy Star Qualified <sup>4</sup>	Federal Tax Credit Approved <sup>5</sup>
9400 Arch CompositWood®	Low E/Argon	Dual	Duralite	.23	.28 <sup>7</sup>	.50	62	Yes	Yes
9400 Arch CompositWood®	Low E/Argon with Grids	Dual	Duralite	.23	.25	.46	62	Yes	Yes
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 <sup>9</sup>	Dual	Duralite	.20	.27	.49	50	Yes	Yes
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 with Grids <sup>9</sup>	Dual	Duralite	.20	.25	.44	50	Yes	Yes
9400 Arch CompositWood®	Fuel Saver	Triple	Duralite	.17	.22	.40	70	Yes	Yes
9400 Arch CompositWood®	Fuel Saver with Grids	Triple	Duralite	.18	.21	.36	70	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus	Triple	Duralite	.15	.22	.40	72	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus with Grids	Triple	Duralite	.16	.20	.36	72	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special	Triple	Duralite	.14	.22	.40	74	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special with Grids	Triple	Duralite	.14	.20	.36	74	Yes	Yes

### Awning

Awning Model	Glass Package <sup>10</sup>	Glazing	Spacer	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	VT <sup>3</sup>	CRF <sup>9</sup>	Energy Star Qualified <sup>4</sup>	Federal Tax Credit Approved <sup>5</sup>
9400 Arch CompositWood®	Low E/Argon	Dual	Duralite	.23	.28 <sup>7</sup>	.50	60	Yes	Yes
9400 Arch CompositWood®	Low E/Argon with Grids	Dual	Duralite	.23	.25	.46	60	Yes	Yes
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 <sup>9</sup>	Dual	Duralite	.20	.27	.49	49	Yes	Yes
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 with Grids <sup>9</sup>	Dual	Duralite	.20	.25	.44	49	Yes	Yes
9400 Arch CompositWood®	Fuel Saver	Triple	Duralite	.17	.22	.40	70	Yes	Yes
9400 Arch CompositWood®	Fuel Saver with Grids	Triple	Duralite	.17	.21	.36	70	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus	Triple	Duralite	.15	.22	.40	72	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus with Grids	Triple	Duralite	.15	.20	.36	72	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special	Triple	Duralite	.14	.22	.40	74	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special with Grids	Triple	Duralite	.14	.20	.36	74	Yes	Yes



## Thermal Testing Summary

### Picture Window with Sash Insert

Picture Window with Sash Insert Model*	Glass Package <sup>10</sup>	Glazing	Spacer	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	VT <sup>3</sup>	CRF <sup>9</sup>	Energy Star Qualified <sup>4</sup>	Federal Tax Credit Approved <sup>5</sup>
9400 Arch CompositWood®	Low E/Argon*	Dual	Duralite	.25	.27	.50	67	Yes	Yes
9400 Arch CompositWood®	Low E/Argon with Grids*	Dual	Duralite	.25	.24	.44	67	Yes	Yes
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 <sup>9</sup>	Dual	Duralite	.21	.28 <sup>7</sup>	.50	53	Yes <sup>7</sup>	Yes <sup>7</sup>
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 with Grids <sup>9</sup>	Dual	Duralite	.21	.25	.44	53	Yes	Yes
9400 Arch CompositWood®	Fuel Saver*	Triple	Duralite	.19	.22	.39	75	Yes	Yes
9400 Arch CompositWood®	Fuel Saver with Grids*	Triple	Duralite	.19	.20	.35	75	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus*	Triple	Duralite	.17	.21	.39	77	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus with Grids*	Triple	Duralite	.17	.19	.35	77	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special*	Triple	Duralite	.15	.22	.39	77	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special with Grids*	Triple	Duralite	.16	.20	.35	77	Yes	Yes

### Picture Window (Direct Set)

Picture Window Model	Glass Package <sup>10</sup>	Glazing	Spacer	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	VT <sup>3</sup>	CRF <sup>9</sup>	Energy Star Qualified <sup>4</sup>	Federal Tax Credit Approved <sup>5</sup>
9400 Arch CompositWood®	Low E/Argon	Dual	Duralite	.24	.35 <sup>8</sup>	.64	62	Yes <sup>8</sup>	Yes <sup>8</sup>
9400 Arch CompositWood®	Low E/Argon with Grids	Dual	Duralite	.24	.32 <sup>8</sup>	.57	62	Yes <sup>8</sup>	Yes <sup>8</sup>
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 <sup>9</sup>	Dual	Duralite	.20	.34 <sup>8</sup>	.62	51	Yes <sup>8</sup>	Yes <sup>8</sup>
9400 Arch CompositWood®	Low E/Argon + Low E Surface 4 with Grids <sup>9</sup>	Dual	Duralite	.20	.31 <sup>8</sup>	.56	51	Yes <sup>8</sup>	Yes <sup>8</sup>
9400 Arch CompositWood®	Fuel Saver	Triple	Duralite	.17	.28 <sup>7</sup>	.50	71	Yes <sup>7</sup>	Yes <sup>7</sup>
9400 Arch CompositWood®	Fuel Saver with Grids	Triple	Duralite	.18	.25	.45	71	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus	Triple	Duralite	.14	.27	.50	73	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Plus with Grids	Triple	Duralite	.15	.25	.45	73	Yes	Yes
9400 Arch CompositWood®	Fuel Saver Special	Triple	Duralite	.12	.28 <sup>7</sup>	.50	75	Yes <sup>7</sup>	Yes <sup>7</sup>
9400 Arch CompositWood®	Fuel Saver Special with Grids	Triple	Duralite	.13	.25	.45	75	Yes	Yes

<sup>1</sup>U-Factor - measures the rate of heat transfer. The lower the U-factor the better the window insulates.

<sup>2</sup>SHGC (Solar Heat Gain Coefficient) a fraction of solar radiation admitted through a window and subsequently released as heat inside a home. The higher the SHGC the more free heat the home gains from the sun.

<sup>3</sup>VT (Visible Light Transmittance) measures the amount of visible light that passes through a window. A high VT transmits more visible light into the home making it brighter from natural light.

<sup>4</sup>Energy Star qualified in all 50 states unless otherwise noted.

<sup>5</sup>Go to [www.energystar.gov](http://www.energystar.gov) for more details on the Federal Energy Tax Credit and Energy Star.

<sup>7</sup>Energy Star qualified for North, North Central and South Central regions as of January 10, 2013.

<sup>8</sup>Energy Star qualified for North and North Central regions.

<sup>9</sup>CRF (Condensation Resistance Factor) measures how well the window resists water build-up from inside the home. The higher the condensation resistance factor, the less moisture build-up the window allows. Due to Low CRF, Interstate does not recommend Surface 4 Low E glass in dual glazing.

<sup>10</sup>All values determined utilizing 3/32" single strength glass panes. Values will change with different glass pane thicknesses. Patio Door values determined with tempered double strength 1/8" glass panes. Values can vary depending on use of glass thicknesses, special grids and other glass options. Other thermal values are possible by special glazing, framing and grid applications. Consult Interstate.

## Energy Star Qualification Criteria for Residential Windows

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Northern	≤ 0.30	Any	Prescriptive
	=0.31	≥ 0.35	Equivalent Energy Performance
	=0.32	≥ 0.40	
North-Central	≤ 0.32	≤ 0.40	
South-Central	≤ 0.35	≤ 0.30	
Southern	≤ 0.60	≤ 0.27	

