

## Thermal Performance Data

<b>GOLDENVINYL OPERATING CASEMENT</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CLLE	1.76	0.31	0.49	3.23	29	1   2	1.70	0.30	0.49	3.33	30	1   2
Soft Coat LowE (2)   Clear	SBCL	1.65	0.29	0.27	3.45	29	None	1.53	0.27	0.27	3.70	21	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.42	0.25	0.40	4.00	31	1   2
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.36	0.24	0.25	4.17	24	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

<b>GOLDENVINYL FIXED CASEMENT</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CLLE	1.76	0.31	0.58	3.23	35	1   2   3	1.70	0.30	0.58	3.33	36	1   2   3
Soft Coat LowE (2)   Clear	SBCL	1.59	0.28	0.31	3.57	23	1	1.53	0.27	0.31	3.70	24	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.42	0.25	0.47	4.00	36	1   2   3
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.31	0.23	0.29	4.35	28	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

<b>GOLDENVINYL FIXED WINDOW</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CLLE	1.76	0.31	0.64	3.23	38	1   2   3	1.70	0.30	0.64	3.33	40	1   2   3
Soft Coat LowE (2)   Clear	SBCL	1.59	0.28	0.34	3.57	25	1	1.48	0.26	0.34	3.85	27	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.36	0.24	0.52	4.17	40	1   2   3
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.25	0.22	0.32	4.55	31	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

<b>GOLDENVINYL SINGLE HUNG</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CLLE	1.87	0.33	0.58	3.03	32	1   2	1.82	0.32	0.58	3.13	33	1   2
Soft Coat LowE (2)   Clear	SBCL	1.70	0.30	0.31	3.33	20	None	1.59	0.28	0.31	3.57	22	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.48	0.26	0.48	3.85	35	1   2   3
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.36	0.24	0.30	4.17	27	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

## Thermal Performance Data

<b>GOLDENVINYL SINGLE SLIDER</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CLLE	1.87	0.33	0.59	3.03	33	1   2	1.82	0.32	0.59	3.13	34	1   2   3
Soft Coat LowE (2)   Clear	SBCL	1.70	0.30	0.31	3.33	20	None	1.59	0.28	0.31	3.57	22	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.53	0.27	0.48	3.70	34	1   2   3
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.36	0.24	0.30	4.17	27	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

<b>GOLDENVINYL DOUBLE HUNG</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CLLE	1.87	0.33	0.56	3.03	30	1   2	1.76	0.31	0.56	3.23	33	1   2
Soft Coat LowE (2)   Clear	SBCL	1.7	0.30	0.30	3.33	19	None	1.59	0.28	0.30	3.57	22	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.53	0.27	0.46	3.70	32	1   2
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.36	0.24	0.28	4.17	25	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

<b>GOLDENVINYL DOUBLE SLIDER</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CLLE	1.87	0.33	0.55	3.03	30	1   2	1.76	0.31	0.55	3.23	32	1   2
Soft Coat LowE (2)   Clear	SBCL	1.7	0.30	0.30	3.33	19	None	1.59	0.28	0.30	3.57	22	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.53	0.27	0.45	3.70	32	1   2
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.42	0.25	0.28	4.00	24	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

<b>GOLDENVINYL SLIDING PATIO DOOR</b>													
Glazing Option	Glazing Code	Intercept						Superspacer					
		U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones	U Value	U Factor	SHGC	R Value	ER	Energy Star Canada 02/01/2015 Qualification Zones
Clear   Hard Coat LowE (3)	CTLT	1.99	0.35	0.54	2.86	27	1	1.99	0.35	0.54	2.86	27	1
Soft Coat LowE (2)   Clear	STCT	1.70	0.30	0.33	3.33	21	None	1.70	0.30	0.33	3.33	21	None
Hard Coat LowE (2)   Hard Coat LowE (4)	LTLT												
Soft Coat LowE (2)   Hard Coat LowE (4)	STLT	1.42	0.25	0.31	4.00	26	1   2	1.42	0.25	0.31	4.00	26	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

## Thermal Performance Data

### GOLDENCLAD OPERATING CASEMENT

Glazing Option	Glazing Code	Intercept						Superspacer					Energy Star Canada 02/01/2015 Qualification Zones
		U Value	U Factor	SHGC	R Value	ER	U Value	U Factor	SHGC	R Value	ER		
Clear   Hard Coat LowE (3)	CLLE	1.87	0.33	0.51	3.03	28	1	1.76	0.31	0.51	3.23	30	1   2
Soft Coat LowE (2)   Clear	SBCL	1.76	0.31	0.27	3.23	16	None	1.65	0.29	0.27	3.45	19	None
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.53	0.27	0.42	3.70	30	1   2
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.42	0.25	0.26	4.00	23	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

### GOLDENCLAD FIXED CASEMENT

Glazing Option	Glazing Code	Intercept						Superspacer					Energy Star Canada 02/01/2015 Qualification Zones
		U Value	U Factor	SHGC	R Value	ER	U Value	U Factor	SHGC	R Value	ER		
Clear   Hard Coat LowE (3)	CLLE	1.82	0.32	0.58	3.13	33	1   2	1.76	0.31	0.58	3.23	35	1   2   3
Soft Coat LowE (2)   Clear	SBCL	1.65	0.29	0.31	3.45	22	None	1.53	0.27	0.31	3.70	24	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.48	0.26	0.48	3.85	35	1   2   3
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.31	0.23	0.29	4.35	28	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

### GOLDENCLAD FIXED WINDOW

Glazing Option	Glazing Code	Intercept						Superspacer					Energy Star Canada 02/01/2015 Qualification Zones
		U Value	U Factor	SHGC	R Value	ER	U Value	U Factor	SHGC	R Value	ER		
Clear   Hard Coat LowE (3)	CLLE	1.82	0.32	0.66	3.13	38	1   2   3	1.76	0.31	0.66	3.23	39	1   2   3
Soft Coat LowE (2)   Clear	SBCL	1.65	0.29	0.35	3.45	24	None	1.53	0.27	0.35	3.70	27	1
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.42	0.25	0.54	4.00	40	1   2   3
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.31	0.23	0.33	4.35	30	1   2

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

### GOLDENCLAD DOUBLE HUNG

Glazing Option	Glazing Code	Intercept						Superspacer					Energy Star Canada 02/01/2015 Qualification Zones
		U Value	U Factor	SHGC	R Value	ER	U Value	U Factor	SHGC	R Value	ER		
Clear   Hard Coat LowE (3)	CLLE	1.99	0.35	0.53	2.86	26	1	1.87	0.33	0.53	3.03	29	1   2
Soft Coat LowE (2)   Clear	SBCL	1.82	0.32	0.28	3.13	16	None	1.70	0.30	0.28	3.33	18	None
Hard Coat LowE (2)   Hard Coat LowE (4)	LELE							1.65	0.29	0.43	3.45	28	1
Soft Coat LowE (2)   Hard Coat LowE (4)	SBLE							1.53	0.27	0.27	3.70	21	1

Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).

## Thermal Performance Data

<b>GOLDENCLAD WIDE RAIL SLIDING PATIO SLIDER</b>												
Glazing Option	Glazing Code	Intercept					Superspacer					Energy Star Canada 02/01/2015 Qualification Zones
		U Value	U Factor	SHGC	R Value	ER	U Value	U Factor	SHGC	R Value	ER	
Clear   Hard Coat LowE (3)	CTLT						1.93	0.34	0.42	2.94	21	None
Soft Coat LowE (2)   Clear	STCT						1.82	0.32	0.23	3.13	12	None
Hard Coat LowE (2)   Hard Coat LowE (4)	LTLT						1.70	0.30	0.34	3.33	21	None
Soft Coat LowE (2)   Hard Coat LowE (4)	STLT						1.65	0.29	0.21	3.45	15	None
Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).												

<b>GOLDENCLAD NARROW RAIL SLIDING PATIO DOOR</b>												
Glazing Option	Glazing Code	Intercept					Superspacer					Energy Star Canada 02/01/2015 Qualification Zones
		U Value	U Factor	SHGC	R Value	ER	U Value	U Factor	SHGC	R Value	ER	
Clear   Hard Coat LowE (3)	CTLT						1.87	0.33	0.57	3.03	31	1   2
Soft Coat LowE (2)   Clear	STCT						1.70	0.30	0.30	3.33	19	None
Hard Coat LowE (2)   Hard Coat LowE (4)	LTLT						1.53	0.27	0.46	3.70	32	1   2
Soft Coat LowE (2)   Hard Coat LowE (4)	STLT						1.48	0.26	0.28	3.85	23	1
Note: Test results for standard units with no grilles. Grilles will impact these values. Test results can be verified by the NFRC (National Fenestration Rating Council).												