



# HARVEY

BUILDING PRODUCTS

## Thermal Performance Data Harvey Replacement Windows & Patio Doors

U-Factor in accordance with NFRC-100-2004, based on whole window value.  
To calculate R-value, divide 1 by the U-Factor (example: 1 div. by .35 = 2.86 R-value).  
Test results subject to change due to periodic re-testing.  
Tempered Low-E and Bronze tint glass will affect U-Factor, SHGc and VT numbers.

Window	Glazing	U	R	SHGc	VT	MEETS	ENERGY STAR
		Factor	Value			30/30	Compliance
<b>Tribute Double Hung</b> – Welded sash & frame <i>Tribute DH</i> <i>TG units are Foam Filled</i>	Tribute DG 2X Low-E/Argon SunClean™	0.30	3.33	0.20	0.36	YES	All Zones
	Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™	0.20	5.00	0.21	0.36	YES	All Zones
	Tribute DG 2X Low-E/Argon SunClean™ w/Grid	0.30	3.33	0.19	0.32	YES	All Zones
	Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™ w/Grid	0.20	5.00	0.19	0.32	YES	All Zones
<b>Classic Double Hung</b> – Welded sash & frame	Clear	0.48	2.08	0.57	0.61	---	---
	Low-E	0.35	2.86	0.30	0.54	---	SC
	Low-E/Argon	0.32	3.13	0.30	0.54	---	NC, SC
	2X Low-E/Argon	0.31	3.23	0.28	0.48	---	NC, SC
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.21	0.49	YES	All Zones
	Clear w/Grid	0.48	2.08	0.51	0.55	---	---
	Low-E w/Grid	0.35	2.86	0.27	0.48	---	SC, S
	Low-E/Argon w/Grid	0.32	3.13	0.27	0.48	---	NC, SC, S
	2X Low-E/Argon w/Grid	0.31	3.23	0.25	0.43	---	NC, SC, S
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.19	0.43	YES	All Zones	
<b>Slimline Double Hung</b> – Welded sash & frame	Clear	0.49	2.04	0.59	0.63	---	---
	Low-E	0.36	2.78	0.30	0.54	---	---
	Low-E/Argon	0.32	3.13	0.30	0.54	---	NC, SC
	2X Low-E/Argon	0.32	3.13	0.28	0.47	---	NC, SC
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.21	0.50	YES	All Zones
	Clear w/Grid	0.49	2.04	0.53	0.56	---	---
	Low-E w/Grid	0.36	2.78	0.27	0.49	---	S
	Low-E/Argon w/Grid	0.32	3.13	0.27	0.49	---	NC, SC, S
	2X Low-E/Argon w/Grid	0.32	3.13	0.26	0.42	---	NC, SC, S
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.19	0.45	YES	All Zones	
<b>Slimline Single Hung</b> – Welded sash & frame	Clear	0.49	2.04	0.59	0.63	---	---
	Low-E	0.36	2.78	0.30	0.54	---	---
	Low-E/Argon	0.32	3.13	0.30	0.54	---	NC, SC
	2X Low-E/Argon	0.32	3.13	0.28	0.47	---	NC, SC
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.21	0.50	YES	All Zones
	Clear w/Grid	0.49	2.04	0.53	0.56	---	---
	Low-E w/Grid	0.36	2.78	0.27	0.49	---	S
	Low-E/Argon w/Grid	0.32	3.13	0.27	0.49	---	NC, SC, S
	2X Low-E/Argon w/Grid	0.32	3.13	0.26	0.42	---	NC, SC, S
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.19	0.45	YES	All Zones	
<b>Signature Welded DH</b> – Welded sash and Mechanical frame	Clear	0.48	2.08	0.56	0.59	---	---
	Low-E	0.36	2.78	0.28	0.52	---	---
	Low-E/Argon	0.33	3.03	0.28	0.52	---	SC
	2X Low-E/Argon	0.33	3.03	0.26	0.46	---	SC, S
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.20	0.46	YES	All Zones
	Clear w/Grid	0.48	2.08	0.50	0.52	---	---
	Low-E w/Grid	0.36	2.78	0.26	0.46	---	S
	Low-E/Argon w/Grid	0.33	3.03	0.26	0.46	---	SC, S
	2X Low-E/Argon w/Grid	0.33	3.03	0.24	0.41	---	SC, S
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.18	0.41	YES	All Zones	
<b>Signature Double Hung</b> – Mechanical sash & frame	Clear	0.50	2.00	0.56	0.60	---	---
	Low-E	0.37	2.70	0.29	0.53	---	---
	Low-E/Argon	0.34	2.94	0.29	0.53	---	SC
	2X Low-E/Argon	0.33	3.03	0.27	0.48	---	SC, S
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.19	0.38	YES	All Zones
	Clear w/Grid	0.50	2.00	0.50	0.53	---	---
	Low-E w/Grid	0.37	2.70	0.26	0.47	---	S
	Low-E/Argon w/Grid	0.34	2.94	0.26	0.47	---	SC, S
	2X Low-E/Argon w/Grid	0.33	3.03	0.25	0.42	---	SC, S
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.17	0.34	YES	All Zones	



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Window	Glazing	U	R	SHGc	VT	MEETS	ENERGY STAR	
		Factor	Value			30/30	Compliance	
Vinyl Casement, Awning & Fixed Lite Casement	Clear	0.44	2.27	0.45	0.47	---	---	
	Low-E	0.33	3.03	0.23	0.42	---	SC, S	
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.23	0.42	YES	All Zones	
	2X Low-E/Argon	0.30	3.33	0.22	0.37	YES	All Zones	
	Tribute DG 2X Low-E/Argon SunClean™	0.30	3.33	0.19	0.32	YES	All Zones	
	Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™	0.22	4.55	0.17	0.29	YES	All Zones	
	Clear w/Grid	0.44	2.27	0.40	0.42	---	---	
	Low-E w/Grid	0.34	2.94	0.21	0.38	---	SC, S	
	Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.21	0.38	YES	All Zones	
	2X Low-E/Argon w/Grid	0.30	3.33	0.20	0.34	YES	All Zones	
	Tribute DG 2X Low-E/Argon SunClean™ w/Grid	0.30	3.33	0.17	0.29	YES	All Zones	
	Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™ w/Grid	0.23	4.35	0.16	0.26	YES	All Zones	
	Vinyl Picture Window	Clear	0.45	2.22	0.61	0.65	---	---
		Low-E	0.31	3.23	0.31	0.58	---	NC
Low-E/Argon		0.27	3.70	0.31	0.58	---	NC	
2X Low-E/Argon		0.26	3.85	0.29	0.51	YES	N, NC, SC	
Federal Incentive Package <=0.30U/0.30SHGc		0.27	3.70	0.22	0.51	YES	All Zones	
Tribute DG 2X Low-E/Argon SunClean™		0.26	3.85	0.25	0.44	YES	All Zones	
Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™		0.18	5.56	0.23	0.40	YES	All Zones	
Clear w/Grid		0.45	2.22	0.54	0.58	---	---	
Low-E w/Grid		0.31	3.23	0.28	0.52	---	NC, SC	
Low-E/Argon w/Grid		0.27	3.70	0.28	0.52	---	N, NC, SC	
Federal Incentive Package w/Grid <=0.30U/0.30SHGc		0.27	3.70	0.20	0.46	YES	All Zones	
2X Low-E/Argon w/Grid		0.26	3.85	0.26	0.46	YES	All Zones	
Tribute DG 2X Low-E/Argon SunClean™ w/Grid		0.26	3.85	0.23	0.39	YES	All Zones	
Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™ w/Grid		0.18	5.56	0.21	0.36	YES	All Zones	
Vinyl Designer Shape	Clear	0.47	2.13	0.66	0.71	---	---	
	Low-E	0.32	3.13	0.34	0.63	---	NC	
	Low-E/Argon	0.28	3.57	0.34	0.63	---	N, NC	
	2X Low-E/Argon	0.27	3.70	0.32	0.56	---	N, NC	
	Federal Incentive Package <=0.30U/0.30SHGc	0.27	3.70	0.24	0.56	YES	All Zones	
	Tribute DG 2X Low-E/Argon SunClean™	0.27	3.70	0.28	0.48	YES	All Zones	
	Clear w/Grid	0.47	2.13	0.60	0.64	---	---	
	Low-E w/Grid	0.32	3.13	0.31	0.57	---	NC	
	Low-E/Argon w/Grid	0.28	3.57	0.31	0.57	---	N, NC	
	2X Low-E/Argon w/Grid	0.27	3.70	0.29	0.50	YES	N, NC, SC	
	Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.27	3.70	0.22	0.50	YES	All Zones	
	Tribute DG 2X Low-E/Argon SunClean™ w/Grid	0.27	3.70	0.25	0.43	YES	All Zones	
	Vinyl Rolling Window	Clear	0.50	2.00	0.61	0.64	---	---
		Low-E	0.37	2.70	0.31	0.57	---	---
Low-E/Argon		0.33	3.03	0.31	0.57	---	---	
2X Low-E/Argon		0.33	3.03	0.29	0.51	---	SC	
Tribute DG 2X Low-E/Argon SunClean™		0.33	3.03	0.25	0.43	---	SC, S	
Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™		0.22	4.55	0.23	0.39	YES	All Zones	
Clear w/Grid		0.50	2.00	0.55	0.57	---	---	
Low-E w/Grid		0.37	2.70	0.28	0.51	---	---	
Low-E/Argon w/Grid		0.33	3.03	0.28	0.51	---	SC	
2X Low-E/Argon w/Grid		0.33	3.03	0.26	0.45	---	SC, S	
Tribute DG 2X Low-E/Argon SunClean™ w/Grid		0.33	3.03	0.22	0.38	---	SC, S	
Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™ w/Grid		0.22	4.55	0.21	0.35	YES	All Zones	



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Window	Glazing	U	R	SHGc	VT	MEETS	ENERGY STAR
		Factor	Value			30/30	Compliance
Vinyl Hopper	Clear	0.49	2.04	0.53	0.56	---	---
	Low-E	0.37	2.70	0.28	0.50	---	---
	Low-E/Argon	0.34	2.94	0.28	0.50	---	SC
	2X Low-E/Argon	0.34	2.94	0.22	0.29	---	SC, S
	Tribute DG 2X Low-E/Argon SunClean™	0.34	2.94	0.23	0.39	---	SC, S
	Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™	0.24	4.17	0.21	0.35	YES	All Zones
	Clear w/Grid	0.49	2.04	0.48	0.51	---	---
	Low-E w/Grid	0.37	2.70	0.25	0.45	---	S
	Low-E/Argon w/Grid	0.34	2.94	0.25	0.45	---	SC, S
	2X Low-E/Argon w/Grid	0.34	2.94	0.20	0.27	---	SC, S
	Tribute DG 2X Low-E/Argon SunClean™ w/Grid	0.34	2.94	0.21	0.35	---	SC, S
Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™ w/Grid	0.24	4.17	0.19	0.31	YES	All Zones	
Vinyl Deadlite	Clear	0.49	2.04	0.66	0.70	---	---
	Low-E	0.35	2.86	0.34	0.62	---	---
	Low-E/Argon	0.31	3.23	0.34	0.62	---	NC
	2X Low-E/Argon	0.30	3.33	0.32	0.55	---	N, NC
	Tribute DG 2X Low-E/Argon SunClean™	0.30	3.33	0.28	0.48	YES	N, NC, SC
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.24	0.56	YES	All Zones
	Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™	0.19	5.26	0.25	0.43	YES	All Zones
	Clear w/Grid	0.49	2.04	0.59	0.63	---	---
	Low-E w/Grid	0.35	2.86	0.31	0.56	---	---
	Low-E/Argon w/Grid	0.31	3.23	0.31	0.56	---	NC
	2X Low-E/Argon w/Grid	0.30	3.33	0.29	0.50	YES	N, NC, SC
Tribute DG 2X Low-E/Argon SunClean™ w/Grid	0.30	3.33	0.25	0.43	YES	All Zones	
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.22	0.50	YES	All Zones	
Tribute HP TG 2X Low-E/Krypton SunClean™ & SPF™ w/Grid	0.19	5.26	0.23	0.39	YES	All Zones	
Vinyl Patio Door  These numbers apply to Standard Size 2,3 & 4 Lite doors only	Clear	0.46	2.17	0.54	0.59	---	---
	Low-E	0.35	2.86	0.29	0.53	---	SC
	Low-E/Argon	0.31	3.23	0.29	0.53	---	NC, SC
	2X Low-E/Argon	0.31	3.23	0.27	0.41	---	NC, SC, S
	Tribute DG 2X Low-E/Argon SunClean™	0.31	3.23	0.23	0.41	---	NC, SC, S
	Federal Incentive Package <=0.30U/0.30SHGc	0.30	3.33	0.24	0.42	YES	All Zones
	Tribute HP TG 2X Low-E/Krypton SunClean™	0.21	4.76	0.25	0.43	YES	All Zones
	Clear w/Grid	0.46	2.17	0.48	0.51	---	---
	Low-E w/Grid	0.35	2.86	0.25	0.46	---	SC
	Low-E/Argon w/Grid	0.31	3.23	0.25	0.46	---	NC, SC, S
	2X Low-E/Argon w/Grid	0.31	3.23	0.24	0.41	---	NC, SC, S
Tribute DG 2X Low-E/Argon SunClean™ w/Grid	0.31	3.23	0.21	0.35	---	NC, SC, S	
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.21	0.37	YES	All Zones	
Tribute HP TG 2X Low-E/Krypton SunClean™ w/Grid (NO SPF)	0.21	4.76	0.22	0.37	YES	All Zones	
Vigilance Double Hung – Impact Resistant	Low-E/Argon	0.30	3.33	0.23	0.51	YES	All Zones
	Low-E/Argon w/Grid	0.31	3.23	0.23	0.45	---	NC, SC, S
	Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.30	3.33	0.18	0.40	YES	All Zones
Vigilance Casement – Impact Resistant	Low-E/Argon	0.30	3.33	0.26	0.47	YES	All Zones
	Low-E/Argon w/Grid	0.30	3.33	0.24	0.43	YES	All Zones
Vigilance Picture Window – Impact Resistant	Low-E/Argon	0.27	3.70	0.35	0.56	---	N, NC
	Federal Incentive Package <=0.30U/0.30SHGc	0.27	3.70	0.29	0.50	YES	N, NC, SC
	Low-E/Argon w/Grid	0.27	3.70	0.32	0.56	---	N, NC
Federal Incentive Package w/Grid <=0.30U/0.30SHGc	0.27	3.70	0.26	0.45	YES	All Zones	
Vigilance Patio Door – Impact Resistant	Low-E/Argon	0.28	3.57	0.26	0.43	YES	All Zones
	Low-E/Argon w/Grid	0.28	3.57	0.24	0.41	YES	All Zones



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Window	Glazing	U	R	SHGc	VT	MEETS	ENERGY STAR
		Factor	Value			30/30	Compliance
<b>Majesty Double Hung</b>	2X Low-E/Argon	0.34	2.94	0.26	0.46	---	SC, S
	<a href="#">Federal Incentive Package &lt;=0.30U/0.30SHGc</a>	<a href="#">0.29</a>	<a href="#">3.45</a>	<a href="#">0.26</a>	<a href="#">0.46</a>	<a href="#">YES</a>	<a href="#">All Zones</a>
	2X Low-E/Argon w/Grid	0.35	2.86	0.24	0.41	---	SC, S
<b>Majesty Picture Window</b>	2X Low-E/Argon	0.32	3.13	0.27	0.48	---	NC, SC, S
	<a href="#">Federal Incentive Package &lt;=0.30U/0.30SHGc</a>	<a href="#">0.29</a>	<a href="#">3.45</a>	<a href="#">0.27</a>	<a href="#">0.48</a>	<a href="#">YES</a>	<a href="#">All Zones</a>
	2X Low-E/Argon w/Grid	0.33	3.03	0.25	0.42	---	SC, S
<b>Majesty Casement &amp; Awning</b>	2X Low-E/Argon	0.36	2.78	0.26	0.45	---	S
	2X Low-E/Krypton	0.35	2.86	0.26	0.46	---	SC, S
	<a href="#">Federal Incentive Package &lt;=0.30U/0.30SHGc</a>	<a href="#">0.28</a>	<a href="#">3.57</a>	<a href="#">0.24</a>	<a href="#">0.41</a>	<a href="#">YES</a>	<a href="#">All Zones</a>
<b>Majesty Fixed Casement</b>	2X Low-E/Argon	0.32	3.13	0.30	0.52	---	NC, SC
	<a href="#">Federal Incentive Package &lt;=0.30U/0.30SHGc</a>	<a href="#">0.28</a>	<a href="#">3.57</a>	<a href="#">0.24</a>	<a href="#">0.41</a>	<a href="#">YES</a>	<a href="#">All Zones</a>
	2X Low-E/Argon w/Grid	0.32	3.13	0.27	0.46	---	NC, SC, S
<b>Classic Acoustic Double Hung</b> - STC40 and 44	Clear I.G.	0.33	3.03	0.52	0.57	---	---
	Low-E I.G.	0.26	3.85	0.29	0.50	YES	N, NC, SC
	2X Low-E/Argon I.G.	0.24	4.17	0.29	0.50	YES	N, NC, SC
<b>Acoustic Picture Window</b> - STC40	Clear I.G. w/Grid	0.33	3.03	0.47	0.50	---	---
	Low-E w/Grid	0.26	3.85	0.26	0.45	YES	All Zones
	2X Low-E/Argon w/Grid	0.24	4.17	0.26	0.45	YES	All Zones
<b>Acoustic Picture Window</b> - STC44	Clear I.G.	0.31	3.23	0.54	0.58	---	N
	Low-E I.G.	0.23	4.35	0.31	0.52	---	N, NC
	2X Low-E/Argon I.G.	0.21	4.76	0.30	0.52	YES	N, NC, SC
<b>Acoustic Picture Window</b> - STC40	Clear I.G. w/Grid	0.31	3.23	0.48	0.52	---	N
	Low-E w/Grid	0.23	4.35	0.28	0.46	YES	N, NC, SC
	2X Low-E/Argon w/Grid	0.21	4.76	0.26	0.46	YES	All Zones
<b>Acoustic Picture Window</b> - STC44	Clear I.G.	0.32	3.13	0.54	0.60	---	N
	Low-E I.G.	0.24	4.17	0.32	0.53	---	N, NC
	2X Low-E/Argon I.G.	0.21	4.76	0.29	0.47	YES	All Zones
<b>Acoustic Rolling Window</b> (2- and 3-Lite) - STC40 and 44	Clear I.G. w/Grid	0.32	3.13	0.49	0.54	---	N
	Low-E w/Grid	0.24	4.17	0.29	0.48	YES	N, NC, SC
	2X Low-E/Argon w/Grid	0.21	4.76	0.26	0.42	YES	All Zones
<b>Acoustic Casement Window</b> - STC40	Clear I.G.	0.34	2.94	0.50	0.55	---	---
	Low-E I.G.	0.26	3.85	0.28	0.48	YES	N, NC, SC
	2X Low-E/Argon I.G.	0.24	4.17	0.26	0.43	YES	All Zones
<b>Acoustic Casement Window</b> - STC40	Clear I.G. w/Grid	0.34	2.94	0.45	0.48	---	---
	Low-E w/Grid	0.26	3.85	0.25	0.43	YES	All Zones
	2X Low-E/Argon w/Grid	0.24	4.17	0.24	0.38	YES	All Zones
<b>Acoustic Casement Window</b> - STC40	Clear I.G.	0.31	3.23	0.45	0.50	---	N
	Low-E I.G.	0.25	4.00	0.24	0.44	YES	All Zones
	2X Low-E/Argon I.G.	0.23	4.35	0.23	0.39	YES	All Zones
<b>Acoustic Casement Window</b> - STC40	Clear I.G. w/Grid	0.31	3.23	0.41	0.45	---	N
	Low-E w/Grid	0.25	4.00	0.22	0.40	YES	All Zones
	2X Low-E/Argon w/Grid	0.23	4.35	0.21	0.36	YES	All Zones



**Thermal Performance Data**  
**Harvey Replacement Windows & Patio Doors**

U-Factor in accordance with NFRC-100-2004, based on whole window value.  
To calculate R-value, divide 1 by the U-Factor (example: 1 div. by .35 = 2.86 R-value).  
Test results subject to change due to periodic re-testing.  
Tempered Low-E and Bronze tint glass will affect U-Factor, SHGc and VT numbers.

Zone Compliance based on Energy Star Qualification Criteria outlined below effective January 4, 2010  
For more ENERGY STAR® Information  
Visit [www.energystar.gov](http://www.energystar.gov) for details.

**ENERGY STAR® Qualification Criteria for Residential Windows, Doors, and Skylights**

Windows				Doors		
Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>		Glazing Level	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	≤ 0.30	Any	Prescriptive	Opaque	≤ 0.21	No Rating
	≤ 0.31	≥ 0.35	Equivalent Energy Performance	≤ ½-Lite	≤ 0.27	≤ 0.30
	≤ 0.32	≥ 0.40		> ½-Lite	≤ 0.32	≤ 0.30
North-Central	≤ 0.32	≤ 0.40				
South-Central	≤ 0.35	≤ 0.30				
Southern	≤ 0.60	≤ 0.27				

  

Skylights		
Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	≤ 0.55	Any
North-Central	≤ 0.55	≤ 0.40
South-Central	≤ 0.57	≤ 0.30
Southern	≤ 0.70	≤ 0.30

<sup>1</sup> Btu/h.ft<sup>2</sup>.°F

<sup>2</sup> Fraction of incident solar radiation

