

# Thermal Performance Ratings\* - NFRC Certified (Page 1 of 6)

Please Note: For the most recent version of this document go to [www.cascadewindows.com/products](http://www.cascadewindows.com/products).  
[Bracketed codes for use in Powerbids]

GLASS [PB]	CLEAR	EC [L]	EC [L]	EC [L]	EC [L]	Ec+ [L70]	Ec+ [L70]	Ec+ [L70]	Ec+ [L70]
SPACER	Intercept	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]
ARGON	N	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]
<b>WinPro Series</b>									
<b>Picture</b>									
U-Values	0.47	0.31	0.27	0.30	0.26	0.31	0.27	0.30	0.26
SHGC	0.67	0.33	0.32	0.33	0.32	0.24	0.24	0.24	0.24
CPD #	WPI- A-19-00288-00004	WPI- A-19-00590-00001	WPI- A-19-00580-00001	WPI- A-19-00608-00001	WPI- A-19-00598-00001	WPI- A-19-00592-00001	WPI- A-19-00582-00001	WPI- A-19-00610-00001	WPI- A-19-00600-00001
<b>Slider</b>									
U-Values	0.49	0.34	0.30	0.33	0.29	0.34	0.30	0.32	0.28
SHGC	0.62	0.30	0.30	0.30	0.30	0.22	0.22	0.22	0.22
CPD #	WPI- A-18-04121-00004	WPI- A-18-06046-00001	WPI- A-18-06076-00001	WPI- A-18-06064-00001	WPI- A-18-06054-00001	WPI- A-18-06048-00001	WPI- A-18-06078-00001	WPI- A-18-06066-00001	WPI- A-18-06056-00001
<b>Single Hung</b>									
U-Values	0.49	0.34	0.30	0.32	0.29	0.34	0.30	0.32	0.28
SHGC	0.62	0.30	0.30	0.30	0.30	0.22	0.22	0.22	0.22
CPD #	WPI- A-17-02487-00004	WPI- A-17-03580-00001	WPI- A-17-03610-00001	WPI- A-17-03598-00001	WPI- A-17-03588-00001	WPI- A-17-03582-00001	WPI- A-17-03572-00001	WPI- A-17-03600-00001	WPI- A-17-03590-00001
<b>Sliding Glass Door</b>									
U-Values	0.48	0.33	0.30	0.32	0.29	0.33	0.29	0.32	0.28
SHGC	0.63	0.31	0.30	0.31	0.30	0.23	0.22	0.23	0.22
CPD #	WPI- A-20-00403-00001	WPI- A-20-00626-00001	WPI- A-20-00616-00001	WPI- A-20-00644-00001	WPI- A-20-00634-00001	WPI- A-20-00628-00001	WPI- A-20-00618-00001	WPI- A-20-00646-00001	WPI- A-20-00636-00001
<b>Empire Series</b>									
<b>Picture</b>									
U-Values	0.47	0.31	0.27	0.30	0.26	0.31	0.27	0.30	0.26
SHGC	0.67	0.33	0.32	0.33	0.32	0.24	0.24	0.24	0.24
CPD #	WPI- A-19-00288-00004	WPI- A-19-00590-00001	WPI- A-19-00580-00001	WPI- A-19-00608-00001	WPI- A-19-00598-00001	WPI- A-19-00592-00001	WPI- A-19-00582-00001	WPI- A-19-00610-00001	WPI- A-19-00600-00001
<b>Slider</b>									
U-Values	0.49	0.34	0.30	0.33	0.29	0.34	0.30	0.32	0.28
SHGC	0.62	0.30	0.30	0.30	0.30	0.22	0.22	0.22	0.22
CPD #	WPI- A-18-04121-00004	WPI- A-18-06046-00001	WPI- A-18-06076-00001	WPI- A-18-06064-00001	WPI- A-18-06054-00001	WPI- A-18-06048-00001	WPI- A-18-06078-00001	WPI- A-18-06066-00001	WPI- A-18-06056-00001
<b>Single Hung</b>									
U-Values	0.49	0.34	0.30	0.32	0.29	0.34	0.30	0.32	0.28
SHGC	0.62	0.30	0.30	0.30	0.30	0.22	0.22	0.22	0.22
CPD #	WPI- A-17-02487-00004	WPI- A-17-03580-00001	WPI- A-17-03610-00001	WPI- A-17-03598-00001	WPI- A-17-03588-00001	WPI- A-17-03582-00001	WPI- A-17-03572-00001	WPI- A-17-03600-00001	WPI- A-17-03590-00001

Revised 09/03/2013

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GLASS [PB]	CLEAR	EC [L]	EC [L]	EC [L]	EC [L]	Ec+ [L70]	Ec+ [L70]	Ec+ [L70]	Ec+ [L70]
SPACER	Intercept	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]
ARGON	N	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]
<b>Cascade Series</b>									
<b>Picture</b>									
U-Values	0.45	0.30	0.27	0.30	0.26	0.3	0.26	0.29	0.26
SHGC	0.62	0.30	0.30	0.30	0.30	0.22	0.22	0.22	0.22
CPD #	WPI- A-24-00259-00004	WPI- A-24-00595-00001	WPI- A-24-00585-00001	WPI- A-24-00613-00001	WPI- A-24-00603-00001	WPI- A-24-00597-00001	WPI- A-24-00587-00001	WPI- A-24-00615-00001	WPI- A-24-00605-00001
<b>Slider</b>									
U-Values	0.48	0.35	0.32	0.33	0.30	0.35	0.31	0.33	0.29
SHGC	0.57	0.28	0.28	0.28	0.28	0.21	0.20	0.21	0.20
CPD #	WPI- A-25-00655-00001	WPI- A-25-00917-00001	WPI- A-25-00907-00001	WPI- A-25-00935-00001	WPI- A-25-00925-00001	WPI- A-25-00919-00001	WPI- A-25-00909-00001	WPI- A-25-00937-00001	WPI- A-25-00927-00001
<b>Single Hung</b>									
U-Values	0.48	0.35	0.32	0.33	0.30	0.35	0.31	0.33	0.29
SHGC	0.57	0.28	0.28	0.28	0.28	0.21	0.20	0.21	0.20
CPD #	WPI- A-26-00781-00001	WPI- A-26-00917-00001	WPI- A-26-00907-00001	WPI- A-26-00935-00001	WPI- A-26-00925-00001	WPI- A-26-00919-00001	WPI- A-26-00909-00001	WPI- A-26-00937-00001	WPI- A-26-00927-00001
<b>Casement</b>									
U-Values	0.42	0.30	0.27	0.29	0.26	0.30	0.27	0.29	0.26
SHGC	0.52	0.25	0.24	0.25	0.24	0.18	0.18	0.18	0.18
CPD #	WPI- A-21-00157-00001	WPI- A-21-00309-00001	WPI- A-21-00299-00001	WPI- A-21-00327-00001	WPI- A-21-00317-00001	WPI- A-21-00311-00001	WPI- A-21-00301-00001	WPI- A-21-00329-00001	WPI- A-21-00319-00001
<b>Awning</b>									
U-Values	0.43	0.31	0.28	0.29	0.26	0.30	0.27	0.29	0.26
SHGC	0.52	0.25	0.24	0.25	0.24	0.18	0.18	0.18	0.18
CPD #	WPI- A-22-00101-00001	WPI- A-22-00237-00001	WPI- A-22-00227-00001	WPI- A-22-00255-00001	WPI- A-22-00245-00001	WPI- A-22-00239-00001	WPI- A-22-00229-00001	WPI- A-22-00257-00001	WPI- A-22-00247-00001
<b>Sliding Glass Door</b>									
U-Values	0.48	0.33	0.30	0.32	0.29	0.33	0.29	0.32	0.28
SHGC	0.63	0.31	0.30	0.31	0.30	0.23	0.22	0.23	0.22
CPD #	WPI- A-20-00403-00001	WPI- A-20-00626-00001	WPI- A-20-00616-00001	WPI- A-20-00644-00001	WPI- A-20-00634-00001	WPI- A-20-00628-00001	WPI- A-20-00618-00001	WPI- A-20-00646-00001	WPI- A-20-00636-00001

Revised 09/03/2013

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GLASS [PB]	CLEAR	EC [L]	EC [L]	EC [L]	EC [L]	Ec+ [L70]	Ec+ [L70]	Ec+ [L70]	Ec+ [L70]
SPACER	Intercept	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]
ARGON	N	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]
<b>ThermalPro Series</b>									
<b>Picture</b>									
U-Values	n/a	n/a	n/a	0.30	0.26	n/a	n/a	0.30	0.26
SHGC	n/a	n/a	n/a	0.33	0.32	n/a	n/a	0.24	0.24
CPD #	n/a	n/a	n/a	WPI- A-18-00568-00001	WPI- A-18-00558-00001	n/a	n/a	WPI- A-19-00570-00001	WPI- A-19-00560-00001
<b>Slider</b>									
U-Values	n/a	n/a	n/a	0.32	0.28	n/a	n/a	0.32	0.28
SHGC	n/a	n/a	n/a	0.30	0.30	n/a	n/a	0.22	0.22
CPD #	n/a	n/a	n/a	WPI- A-18-06024-00001	WPI- A-18-06014-00001	n/a	n/a	WPI- A-18-06026-00001	WPI- A-18-06016-00001
<b>Single Hung</b>									
U-Values	n/a	n/a	n/a	0.32	0.28	n/a	n/a	0.32	0.28
SHGC	n/a	n/a	n/a	0.30	0.30	n/a	n/a	0.22	0.22
CPD #	n/a	n/a	n/a	WPI- A-17-03558-00001	WPI- A-17-03548-00001	n/a	n/a	WPI- A-17-03560-00001	WPI- A-17-03550-00001

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GLASS [PB]	CLEAR	EC/IS-20 [LL5]	EC/IS-20 [LL5]	EC/IS-20 [LL5]	EC/IS-20 [LL5]	Ec+/IS-20 [L7L5]	Ec+/IS-20 [L7L5]	Ec+/IS-20 [L7L5]	Ec+/IS-20 [L7L5]
SPACER	Intercept	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]
ARGON	N	N	Arg [AR]	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]
<b>WinPro Series</b>									
<b>Picture</b>									
U-Values	0.47	0.26	0.23	0.25	0.22	0.26	0.23	0.25	0.22
SHGC	0.67	0.32	0.31	0.32	0.31	0.23	0.23	0.23	0.23
CPD #	WPI- A-19-00288-00004	WPI- A-19-00594-00001	WPI- A-19-00584-00001	WPI- A-19-00612-00001	WPI- A-19-00602-00001	WPI- A-19-00596-00001	WPI- A-19-00586-00001	WPI- A-19-00614-00001	WPI- A-19-00604-00001
<b>Slider</b>									
U-Values	0.49	0.29	0.27	0.28	0.25	0.29	0.26	0.28	0.25
SHGC	0.62	0.29	0.29	0.29	0.29	0.22	0.21	0.22	0.21
CPD #	WPI- A-18-04121-00004	WPI- A-18-06050-00001	WPI- A-18-06040-00001	WPI- A-18-06068-00001	WPI- A-18-06058-00001	WPI- A-18-06052-00001	WPI- A-18-06042-00001	WPI- A-18-06070-00001	WPI- A-18-06060-00001
<b>Single Hung</b>									
U-Values	0.49	0.29	0.27	0.28	0.25	0.29	0.26	0.28	0.25
SHGC	0.62	0.29	0.29	0.29	0.29	0.22	0.21	0.22	0.21
CPD #	WPI- A-17-02487-00004	WPI- A-17-03584-00001	WPI- A-17-03574-00001	WPI- A-17-03602-00001	WPI- A-17-03592-00001	WPI- A-17-03586-00001	WPI- A-17-03576-00001	WPI- A-17-03604-00001	WPI- A-17-03594-00001
<b>Sliding Glass Door</b>									
U-Values	0.48	0.28	0.25	0.27	0.25	0.28	0.25	0.27	0.24
SHGC	0.63	0.30	0.30	0.30	0.30	0.22	0.22	0.22	0.22
CPD #	WPI- A-20-00403-00001	WPI- A-20-00630-00001	WPI- A-20-00620-00001	WPI- A-20-00648-00001	WPI- A-20-00638-00001	WPI- A-20-00632-00001	WPI- A-20-00622-00001	WPI- A-20-00650-00001	WPI- A-20-00640-00001
<b>Empire Series</b>									
<b>Picture</b>									
U-Values	0.47	0.26	0.23	0.25	0.22	0.26	0.23	0.25	0.22
SHGC	0.67	0.32	0.31	0.32	0.31	0.23	0.23	0.23	0.23
CPD #	WPI- A-19-00288-00004	WPI- A-19-00594-00001	WPI- A-19-00584-00001	WPI- A-19-00612-00001	WPI- A-19-00602-00001	WPI- A-19-00596-00001	WPI- A-19-00586-00001	WPI- A-19-00614-00001	WPI- A-19-00604-00001
<b>Slider</b>									
U-Values	0.49	0.29	0.27	0.28	0.25	0.29	0.26	0.28	0.25
SHGC	0.62	0.29	0.29	0.29	0.29	0.22	0.21	0.22	0.21
CPD #	WPI- A-18-04121-00004	WPI- A-18-06050-00001	WPI- A-18-06040-00001	WPI- A-18-06068-00001	WPI- A-18-06058-00001	WPI- A-18-06052-00001	WPI- A-18-06042-00001	WPI- A-18-06070-00001	WPI- A-18-06060-00001
<b>Single Hung</b>									
U-Values	0.49	0.29	0.27	0.28	0.25	0.29	0.26	0.28	0.25
SHGC	0.62	0.29	0.29	0.29	0.29	0.22	0.21	0.22	0.21
CPD #	WPI- A-17-02487-00004	WPI- A-17-03584-00001	WPI- A-17-03574-00001	WPI- A-17-03602-00001	WPI- A-17-03592-00001	WPI- A-17-03586-00001	WPI- A-17-03576-00001	WPI- A-17-03604-00001	WPI- A-17-03594-00001

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SPACER	Intercept	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]
ARGON	N	N	Arg [AR]	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]
<b>Cascade Series</b>									
<b>Picture</b>									
U-Values	0.45	0.25	0.23	0.25	0.22	0.25	0.22	0.25	0.22
SHGC	0.62	0.29	0.29	0.29	0.29	0.22	0.21	0.22	0.21
CPD #	WPI- A-24-00259-00004	WPI- A-24-00599-00001	WPI- A-24-00589-00001	WPI- A-24-00617-00001	WPI- A-24-00607-00001	WPI- A-24-00601-00001	WPI- A-24-00591-00001	WPI- A-24-00619-00001	WPI- A-24-00609-00001
<b>Slider</b>									
U-Values	0.48	0.30	0.28	0.29	0.26	0.30	0.28	0.29	0.26
SHGC	0.57	0.27	0.27	0.27	0.27	0.20	0.20	0.20	0.20
CPD #	WPI- A-25-00655-00001	WPI- A-25-00921-00001	WPI- A-25-00911-00001	WPI- A-25-00939-00001	WPI- A-25-00929-00001	WPI- A-25-00923-00001	WPI- A-25-00913-00001	WPI- A-25-00941-00001	WPI- A-25-00931-00001
<b>Single Hung</b>									
U-Values	0.48	0.30	0.28	0.29	0.26	0.30	0.28	0.28	0.26
SHGC	0.57	0.27	0.27	0.27	0.27	0.20	0.20	0.20	0.20
CPD #	WPI- A-26-00781-00001	WPI- A-26-00921-00001	WPI- A-26-00911-00001	WPI- A-26-00939-00001	WPI- A-26-00929-00001	WPI- A-26-00923-00001	WPI- A-26-00913-00001	WPI- A-26-00941-00001	WPI- A-26-00931-00001
<b>Casement</b>									
U-Values	0.42	0.26	0.24	0.25	0.23	0.26	0.24	0.25	0.23
SHGC	0.52	0.24	0.24	0.24	0.24	0.18	0.18	0.18	0.18
CPD #	WPI- A-21-00157-00001	WPI- A-21-00313-00001	WPI- A-21-00303-00001	WPI- A-21-00331-00001	WPI- A-21-00321-00001	WPI- A-21-00315-00001	WPI- A-21-00305-00001	WPI- A-21-00333-00001	WPI- A-21-00323-00001
<b>Awning</b>									
U-Values	0.43	0.27	0.25	0.26	0.24	0.27	0.25	0.26	0.23
SHGC	0.52	0.24	0.24	0.24	0.24	0.18	0.18	0.18	0.18
CPD #	WPI- A-22-00101-00001	WPI- A-22-00241-00001	WPI- A-22-00231-00001	WPI- A-22-00259-00001	WPI- A-22-00249-00001	WPI- A-22-00243-00001	WPI- A-22-00233-00001	WPI- A-22-00261-00001	WPI- A-22-00251-00001
<b>Sliding Glass Door</b>									
U-Values	0.48	0.28	0.25	0.27	0.25	0.28	0.25	0.27	0.24
SHGC	0.63	0.30	0.30	0.30	0.30	0.22	0.22	0.22	0.22
CPD #	WPI- A-20-00403-00001	WPI- A-20-00630-00001	WPI- A-20-00620-00001	WPI- A-20-00648-00001	WPI- A-20-00638-00001	WPI- A-20-00632-00001	WPI- A-20-00622-00001	WPI- A-20-00650-00001	WPI- A-20-00640-00001

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SPACER	Intercept	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]	Intercept	Intercept	SuperSpacer [SS]	SuperSpacer [SS]
ARGON	N	N	Arg [AR]	N	Argon [AR]	N	Argon [AR]	N	Argon [AR]
<b>ThermalPro Series</b>									
<b>Picture</b>									
U-Values	n/a	n/a	n/a	0.25	0.22	n/a	n/a	0.25	0.22
SHGC	n/a	n/a	n/a	0.32	0.31	n/a	n/a	0.23	0.23
CPD #	n/a	n/a	n/a	WPI- A-19-00572-00001	WPI- A-19-00562-00001	n/a	n/a	WPI- A-19-00574-00001	WPI- A-19-00564-00001
<b>Slider</b>									
U-Values	n/a	n/a	n/a	0.27	0.25	n/a	n/a	0.27	0.24
SHGC	n/a	n/a	n/a	0.29	0.29	n/a	n/a	0.22	0.21
CPD #	n/a	n/a	n/a	WPI- A-18-06028-00001	WPI- A-18-06018-00001	n/a	n/a	WPI- A-18-04512-00001	WPI- A-18-06020-00001
<b>Single Hung</b>									
U-Values	n/a	n/a	n/a	0.27	0.25	n/a	n/a	0.27	0.24
SHGC	n/a	n/a	n/a	0.29	0.29	n/a	n/a	0.22	0.21
CPD #	n/a	n/a	n/a	WPI- A-17-03562-00001	WPI- A-17-03552-00001	n/a	n/a	WPI- A-17-03564-00001	WPI- A-17-03554-00001

Revised 09/03/2013

\* These values are subject to change without notice, based on testing and certification cycles. All Cascade Windows products may be ordered to meet or exceed Energy Star requirements. Please visit [www.energystar.gov](http://www.energystar.gov) to view specific US climate zone requirements. Thermal values are shown with no internal dividers (aka grids or muntins). Values shown are with standard reinforcement configurations.

