

WINDOWS	LoE²-272[®]				
	LoE³-366[®]				
NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Clad Units					
Clad Ultimate Casement - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.30	0.29	0.49	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.30	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.18	0.40	N, NC, SC, S	X

Clad Ultimate Casement Picture - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.28	0.33	0.57	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.30	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.22	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.20	0.46	N, NC, SC, S	X

Clad Ultimate Casement Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.29	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.29	0.50	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.29	0.50	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.29	0.29	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.28	0.22	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.28	0.20	0.45	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

Clad Ultimate Casement Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.29	0.32	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.29	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.29	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.29	0.29	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.28	0.22	0.5	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.20	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.20	0.44	N, NC, SC, S	x

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 366 Glass - Argon, GBG	0.28	0.20	0.44	N, NC, SC, S	X

5.7mm glass and 13 spacer

Clad Ultimate Replacement Casement - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.30	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.18	0.40	N, NC, SC, S	X

Clad Ultimate Replacement Picture - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.33	0.57	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.30	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.22	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.20	0.46	N, NC, SC, S	X

Clad Ultimate Awning - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.30	0.29	0.49	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.30	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.18	0.40	N, NC, SC, S	X

Clad Ultimate Replacement Awning - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.30	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.18	0.40	N, NC, SC, S	X

Clad Ultimate Casement Round Top Operator - 3/4" IG					
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NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon	0.30	0.29	0.49	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.30	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.18	0.40	N, NC, SC, S	X

Clad Ultimate Pushout Casement - 3/4" IG

Insulating Low E 272 Glass - Argon	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.19	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.31	0.18	0.40	N, NC, SC, S	

Clad Ultimate Pushout Casement Picture - 3/4" IG

Insulating Low E 272 Glass - Argon	0.29	0.33	0.57	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.30	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.22	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.20	0.46	N, NC, SC, S	X

Clad Ultimate Pushout Casement Picture - 1" IG

Insulating Low E 272 Glass - Argon	0.29	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.29	0.50	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.29	0.50	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.29	0.29	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.29	0.22	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.29	0.20	0.45	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

Clad Ultimate Pushout Casement Picture - 1" IG

Insulating Low E 272 Glass - Argon	0.29	0.32	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.29	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.29	0.49	N, NC, SC, S	x

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon, GBG	0.29	0.29	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.29	0.22	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.20	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.20	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.29	0.20	0.44	N, NC, SC, S	x

5.7mm glass and 14.5 spacer

Clad Ultimate Pushout Awning - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.31	0.26	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.19	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.31	0.18	0.40	N, NC, SC, S	

Clad Ultimate Pushout Replacement Casement - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.32	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.27	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.27	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.32	0.27	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.19	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.31	0.18	0.40	N, NC, SC, S	

Clad Ultimate Pushout Replacement Casement Picture - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.33	0.57	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.30	0.51	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.30	0.51	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.29	0.30	0.51	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.29	0.22	0.51	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.20	0.46	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.20	0.46	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.29	0.20	0.46	N, NC, SC, S	x

Clad Ultimate Pushout Replacement Awning - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.32	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.27	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.27	0.44	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.32	0.27	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.19	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.18	0.40	N, NC, SC, S	

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Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.31	0.18	0.40	N, NC, SC, S	

Clad Casemaster Casement Operator/Stationary - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.32	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.26	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.26	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.33	0.26	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.32	0.19	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.18	0.40	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.32	0.18	0.40	N, NC, SC, S	

Clad Casemaster Picture - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.30	0.33	0.57	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.30	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.29	0.22	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.29	0.20	0.46	N, NC, SC, S	X

Clad Casemaster Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.30	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.29	0.50	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.29	0.50	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.30	0.29	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.29	0.22	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.29	0.20	0.45	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

Clad Casemaster Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.30	0.32	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.29	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.30	0.29	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.29	0.22	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.20	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.20	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.29	0.20	0.44	N, NC, SC, S	x

5.7mm glass and 13 spacer

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
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Clad Casemaster Awning Operator/Stationary - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.33	0.28	0.48	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.26	0.43	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.33	0.26	0.43	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.33	0.26	0.43	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.32	0.19	0.43	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.17	0.39	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.17	0.39	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.32	0.17	0.39	N, NC, SC, S	

Clad Casemaster Casement Round Top and Polygon Operator/Stationary - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.30	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.26	0.45	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.26	0.45	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.26	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.29	0.19	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.29	0.18	0.40	N, NC, SC, S	X

Clad Casemaster Picture Round Top and Polygon - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.28	0.33	0.58	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.30	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.27	0.22	0.52	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.27	0.20	0.46	N, NC, SC, S	X

Clad Casemaster Picture Round Top and Polygon - 1" IG					
Insulating Low E 272 Glass - Argon	0.28	0.32	0.57	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.29	0.5	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.29	0.5	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.28	0.29	0.5	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.22	0.51	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.20	0.45	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

Clad Casemaster Picture Round Top and Polygon - 1" IG					
Insulating Low E 272 Glass - Argon	0.28	0.32	0.56	N, NC, SC, S	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.29	0.5	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.29	0.5	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.28	0.29	0.5	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.22	0.5	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.2	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.2	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.2	0.45	N, NC, SC, S	x

5.7mm glass and 13 spacer

Clad Casemaster Venting Picture - 3/4" IG

Insulating Low E 272 Glass - Argon	0.30	0.33	0.57	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.30	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.30	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.30	0.22	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.20	0.46	N, NC, SC, S	X

Clad Casemaster Venting Picture - 1" IG

Insulating Low E 272 Glass - Argon	0.31	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.29	0.5	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.29	0.5	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.31	0.29	0.5	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.30	0.22	0.5	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.20	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.20	0.45	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.30	0.20	0.45	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

Clad Casemaster Venting Picture - 1" IG

Insulating Low E 272 Glass - Argon	0.31	0.32	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.30	0.22	0.50	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.20	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.20	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.30	0.20	0.44	N, NC, SC, S	x

5.7mm glass and 13 spacer

Clad Ultimate Double Hung / Single Hung - .700" IG

Insulating Low E 272 Glass - Argon	0.31	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.27	0.45	N, NC, SC, S	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.32	0.27	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.30	0.20	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.31	0.18	0.41	N, NC, SC, S	

Clad Ultimate Double Hung Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.29	0.30	0.53	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.27	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.27	0.47	N, NC, SC, S	X
Insulating Low E 2726 Glass - Argon, GBG	0.29	0.27	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.20	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.18	0.42	N, NC, SC, S	X

Clad Ultimate Double Hung Transom (.700 IG) - .700" IG					
Insulating Low E 272 Glass - Argon	0.29	0.32	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.29	0.49	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.29	0.49	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.29	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.29	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.29	0.19	0.44	N, NC, SC, S	X

Clad Ultimate Double Hung Round Top - .700" IG					
Insulating Low E 272 Glass - Argon	0.32	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.32	0.27	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.32	0.18	0.41	N, NC, SC, S	

Clad Ultimate Double Hung Round Top Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.30	0.31	0.53	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.28	0.47	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.28	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.28	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.30	0.21	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.19	0.42	N, NC, SC, S	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.19	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.19	0.42	N, NC, SC, S	X

Clad Ultimate Double Hung Round Top Transom - 1" IG					
Insulating Low E 272 Glass - Argon	0.30	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.28	0.48	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.30	0.28	0.48	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.29	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.19	0.43	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.29	0.19	0.43	N, NC, SC, S	X

Clad Ultimate Insert Double/Single Hung - .700" IG					
Insulating Low E 272 Glass - Argon	0.32	0.30	0.52	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.27	0.46	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.27	0.46	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.33	0.27	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.32	0.18	0.41	N, NC, SC, S	

Clad Ultimate Insert Double Hung Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.29	0.31	0.53	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	0.28	0.21	0.48	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	NA	NA	NA	NA	

Clad Ultimate Insert Double Hung Transom - .700" IG					
Insulating Low E 272 Glass - Argon	0.30	0.33	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.29	0.50	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.31	0.29	0.50	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.29	0.22	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.20	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.20	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.20	0.45	N, NC, SC, S	X

Clad Double Hung Tilt Pac - 9/16" IG					
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NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon	0.33	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.36	0.27	0.45	NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.35	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.37	0.27	0.45	NC, SC, S	
Insulating Low E 366 Glass - Argon	0.32*	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.36	0.18	0.41	NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.35	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.36	0.18	0.41	NC, SC, S	

Clad Single Hung Tilt Pac - 9/16" IG					
Insulating Low E 272 Glass - Argon	0.33	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.36	0.27	0.45	NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.35	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.37	0.27	0.45	NC, SC, S	
Insulating Low E 366 Glass - Argon	0.32*	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.36	0.18	0.41	NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.35	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.36	0.18	0.41	NC, SC, S	

Clad Ultimate Double Hung Impact/Magnum Picture - 1" IG					
Insulating Low E 272 Glass - Argon	0.29	0.30	0.53	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.27	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.27	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.27	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.20	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.18	0.42	N, NC, SC, S	X

Clad Ultimate Double Hung Magnum / SH Magnum - .700" IG					
Insulating Low E 272 Glass - Argon	0.31	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.32	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.32	0.27	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.31	0.18	0.41	N, NC, SC, S	

Clad Glider - 9/16" IG					
Insulating Low E 272 Glass - Argon	0.37	0.31	0.53	NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.38	0.28	0.47	NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.37	0.28	0.47	NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.38	0.28	0.47	NC, SC, S	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 366 Glass - Argon	0.36	0.21	0.48	NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.37	0.19	0.42	NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.36	0.19	0.42	NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.38	0.19	0.42	NC, SC, S	

Clad Glider Picture - 9/16" IG					
Insulating Low E 272 Glass - Argon	0.34	0.33	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.35	0.30	0.50	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.34	0.30	0.50	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.36	0.30	0.50	NC, SC, S	
Insulating Low E 366 Glass - Argon	0.34	0.22	0.50	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.35	0.20	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.34	0.20	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.35	0.20	0.45	N, NC, SC, S	

Clad Direct Glaze Polygon - 1" IG					
Insulating Low E 272 Glass - Argon	0.28	0.35	0.61	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.28	0.31	0.54	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.28	0.23	0.54	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.21	0.49	N, NC, SC, S	X

Clad Direct Glaze Round Top - 1" IG					
Insulating Low E 272 Glass - Argon	0.29	0.36	0.63	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.29	0.32	0.56	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.28	0.24	0.56	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.22	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.22	0.51	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.22	0.51	N, NC, SC, S	X

Clad Magnum Tilt Turn 2 13/32" - 7/8" IG					
Insulating Low E 272 Glass - Argon	0.31	0.29	0.49	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.26	0.43	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.26	0.43	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.31	0.26	0.43	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.31	0.19	0.44	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.35	0.17	0.39	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.31	0.17	0.39	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.31	0.17	0.39	N, NC, SC, S	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
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Clad Magnum Tilt Turn 4 9/16" - 7/8" IG					
Insulating Low E 272 Glass - Argon	0.32	0.27	0.47	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.24	0.41	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.24	0.41	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.32	0.24	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.32	0.18	0.42	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.33	0.16	0.37	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.32	0.16	0.37	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.32	0.16	0.37	N, NC, SC, S	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Meets SP Criteria
Wood Units					
WOOD ULTIMATE CASEMENT - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.17	0.39	N, NC, SC, S	X

WOOD ULTIMATE CASEMENT PICTURE - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.27	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.27	0.29	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.27	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.45	N, NC, SC, S	X

WOOD ULTIMATE CASEMENT PICTURE - 1" IG					
Insulating Low E 272 Glass - Argon	0.27	0.32	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.28	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.28	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.27	0.28	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.21	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.44	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
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WOOD ULTIMATE CASEMENT PICTURE - 1" IG					
Insulating Low E 272 Glass - Argon	0.27	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.28	0.48	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.27	0.28	0.48	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.21	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.44	N, NC, SC, S	x

5.7mm glass and 13 spacer

WOOD ULTIMATE AWNING - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.28	0.27	0.46	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.25	0.42	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.25	0.42	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.25	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.16	0.38	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.16	0.38	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.16	0.38	N, NC, SC, S	X

WOOD ULTIMATE CASEMENT ROUND TOP OPERATOR - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.17	0.39	N, NC, SC, S	X

WOOD ULTIMATE PUSHOUT CASEMENT - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.25	0.43	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.25	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.29	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.29	0.17	0.39	N, NC, SC, S	X

WOOD ULTIMATE PUSHOUT CASEMENT PICTURE - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.28	0.32	0.56	N, NC, SC, S	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.29	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.27	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.45	N, NC, SC, S	X

WOOD ULTIMATE PUSHOUT CASEMENT PICTURE - 1" IG					
Insulating Low E 272 Glass - Argon	0.28	0.32	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.28	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.28	0.28	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.21	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.44	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

WOOD ULTIMATE PUSHOUT CASEMENT PICTURE - 1" IG					
Insulating Low E 272 Glass - Argon	0.28	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.28	0.48	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.28	0.28	0.48	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.21	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.44	N, NC, SC, S	x

5.7mm glass and 13 spacer

WOOD ULTIMATE PUSHOUT AWNING - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.27	0.46	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.25	0.42	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.25	0.42	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.25	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.16	0.38	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.16	0.38	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.16	0.38	N, NC, SC, S	X

Wood Casemaster Casement Operator/Stationary - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.28	0.49	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.26	0.44	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.26	0.44	N, NC, SC, S	X

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon, GBG	0.29	0.26	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.19	0.44	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.17	0.39	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.29	0.17	0.39	N, NC, SC, S	X

Wood Casemaster Picture - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.27	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.29	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.27	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.45	N, NC, SC, S	X

Wood Casemaster Picture - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.28	0.31	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.28	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.49	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.28	0.28	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.21	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.44	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.44	N, NC, SC, S	x

4.7mm glass and a 16mm spacer

Wood Casemaster Picture - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.28	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	x
Insulating Low E 272 Glass - Argon, GBG	0.28	0.28	0.48	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon	0.27	0.21	0.49	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.43	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.43	N, NC, SC, S	x
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.43	N, NC, SC, S	x

5.7mm glass and 13 spacer

Wood Casemaster Awning Operator/Stationary - 3/4" IG					
Insulating Low E 272 Glass - Argon	0.29	0.26	0.45	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.24	0.41	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.24	0.41	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.24	0.41	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.18	0.41	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.16	0.37	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.16	0.37	N, NC, SC, S	X

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 366 Glass - Argon, GBG	0.29	0.16	0.37	N, NC, SC, S	X

Wood Direct Glaze Polygon - 3/4"					
Insulating Low E 272 Glass - Argon	0.26	0.36	0.62	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.27	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.26	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.27	0.32	0.56	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.25	0.24	0.56	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.27	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.25	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.26	0.21	0.50	N, NC, SC, S	X

Wood Direct Glaze Polygon - 1"					
Insulating Low E 272 Glass - Argon	0.27	0.35	0.61	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.31	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.31	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.27	0.31	0.55	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.26	0.23	0.55	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.27	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.26	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.26	0.21	0.49	N, NC, SC, S	X

Wood Direct Glaze Round Top - 3/4"					
Insulating Low E 272 Glass - Argon	0.27	0.36	0.62	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.32	0.56	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.28	0.32	0.56	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.26	0.24	0.56	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.26	0.21	0.50	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.27	0.21	0.50	N, NC, SC, S	X

Wood Direct Glaze Round Top - 1"					
Insulating Low E 272 Glass - Argon	0.27	0.35	0.61	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.31	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.31	0.55	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.27	0.31	0.55	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.26	0.23	0.55	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.27	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.26	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.26	0.21	0.49	N, NC, SC, S	X

Wood Ultimate Double Hung / Single Hung - .700" IG					
Insulating Low E 272 Glass - Argon	0.30	0.29	0.50	N, NC, SC, S	X

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.26	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.26	0.45	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.31	0.26	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.29	0.20	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.18	0.40	N, NC, SC, S	X

Wood Ultimate Double Hung Picture 1 5/8" - .700" IG

Insulating Low E 272 Glass - Argon	0.28	0.31	0.53	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.28	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.28	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.28	0.20	0.48	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.18	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.29	0.18	0.42	N, NC, SC, S	X

Wood Ultimate Double Hung Picture 2" - 1" IG

Insulating Low E 272 Glass - Argon	0.28	0.31	0.52	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.28	0.46	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.46	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.28	0.46	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.27	0.21	0.47	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.27	0.19	0.42	N, NC, SC, S	X

Wood Ultimate Double Hung Transom - .700" IG

Insulating Low E 272 Glass - Argon	0.28	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.29	0.28	0.48	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	0.27	0.21	0.49	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.19	0.43	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.28	0.19	0.43	N, NC, SC, S	X

Wood Ultimate Double/Single Hung Round Top - .700" IG

Insulating Low E 272 Glass - Argon	0.30	0.29	0.50	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.26	0.44	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	*	*	*	*	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, GBG	*	*	*	*	

Wood Ultimate Double Hung Round Top Picture 1 5/8" - .700" IG					
Insulating Low E 272 Glass - Argon	0.28	0.31	0.53	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.27	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.27	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, GBG	*	*	*	*	

Wood Ultimate Double Hung Round Top Picture 2" - 1" IG					
Insulating Low E 272 Glass - Argon	0.28	0.30	0.52	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.27	0.46	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.27	0.46	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, GBG	*	*	*	*	

Wood Ultimate Double Hung Round Top Transom 1 5/8" - .700" IG					
Insulating Low E 272 Glass - Argon	0.28	0.31	0.54	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, GBG	*	*	*	*	

Wood Ultimate Double Hung Round Top Transom 2" - 1" IG					
Insulating Low E 272 Glass - Argon	0.27	0.30	0.53	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.28	0.27	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.27	0.27	0.47	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, GBG	*	*	*	*	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Wood Double Hung Tilt Pac - 9/16" IG					
Insulating Low E 272 Glass - Argon	0.34	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.35	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.34	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.35	0.27	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.33	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.34	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.33	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.35	0.18	0.41	N, NC, SC, S	

Wood Single Hung Tilt Pac - 9/16" IG					
Insulating Low E 272 Glass - Argon	0.34	0.30	0.51	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.35	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.34	0.27	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.35	0.27	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.33	0.20	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.34	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.33	0.18	0.41	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.35	0.18	0.41	N, NC, SC, S	

Wood Ultimate Double Hung Magnum / SH Magnum - .700" IG					
Insulating Low E 272 Glass - Argon	0.30	0.29	0.51	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.31	0.26	0.45	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.30	0.26	0.45	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.31	0.26	0.45	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.29	0.20	0.45	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.30	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.29	0.18	0.40	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon, GBG	0.30	0.18	0.40	N, NC, SC, S	X

Wood Magnum Historical Double Hung					
Insulating Low E 272 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, GBG	NA	NA	NA	NA	

Wood Magnum Historical Single Hung					
Insulating Low E 272 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, GBG	NA	NA	NA	NA	

Wood Magnum Historical Picture					
Insulating Low E 272 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, GBG	NA	NA	NA	NA	

Wood Magnum Historical Transom					
Insulating Low E 272 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 272 Glass - Argon, GBG	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	NA	NA	NA	NA	
Insulating Low E 366 Glass - Argon, GBG	NA	NA	NA	NA	

Wood Glider - 9/16" IG					
Insulating Low E 272 Glass - Argon	0.33	0.31	0.52	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.34	0.28	0.46	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.33	0.28	0.46	N, NC, SC, S	
Insulating Low E 272 Glass - Argon, GBG	0.35	0.28	0.46	N, NC, SC, S	
Insulating Low E 366 Glass - Argon	0.33	0.21	0.47	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	0.34	0.19	0.42	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	0.33	0.19	0.42	N, NC, SC, S	
Insulating Low E 366 Glass - Argon, GBG	0.34	0.19	0.42	N, NC, SC, S	

Wood Magnum Tilt Turn 2 13/32" - 7/8" IG					
Insulating Low E 272 Glass - Argon	0.28	0.28	0.48	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.25	0.42	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.25	0.42	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.25	0.42	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	*	*	*	*	

NFRC PRODUCT WITH PRODUCT CODE	U Value	SHGC	VLT	Energy Star	Qualifies for Tax Credit
Insulating Low E 366 Glass - Argon, GBG	*	*	*	*	

Wood Magnum Tilt Turn 4 9/16" - 7/8" IG					
Insulating Low E 272 Glass - Argon	0.28	0.27	0.46	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/ Spacer Bar < 1"	0.29	0.24	0.41	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, SDL w/o Spacer Bar < 1"	0.28	0.24	0.41	N, NC, SC, S	X
Insulating Low E 272 Glass - Argon, GBG	0.28	0.24	0.41	N, NC, SC, S	X
Insulating Low E 366 Glass - Argon	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/ Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, SDL w/o Spacer Bar < 1"	*	*	*	*	
Insulating Low E 366 Glass - Argon, GBG	*	*	*	*	

* Product Energy Value Verification is currently in process. Charts will be completed when we receive the data.

** Please note that this chart provides data for products with Argon-filled glazing. Marvin has many more glazing options.

*** Tinted glass is also available. Tints will not affect the product's U-factor, but would reduce its SHGC.