



# NFRC ENERGY PERFORMANCE TEST RESULTS

PRODUCT DESCRIPTION	GLAZING	GAP FILL	U FACTOR	R VALUE	SHGC	VT	COND. RESIST.
<b>1 3/4" FRENCH DOOR</b>							
INSWING OR OUTSWING DOOR, C/W OVALO PROFILE OR RAISED MOULDING WITH 9/16" SPACER OR RESTORATION PROFILE WITH 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.38	2.63	0.03	0.04	
HALF LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.34	2.94	0.13	0.16	
THREE QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.33	3.03	0.19	0.23	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.32	3.13	0.23	0.28	

INSWING OR OUTSWING DOOR, SWINGING SCREEN DOOR WITH STORM INSERT C/W OVALO PROFILE WITH 9/16" SPACER, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.26	3.85	0.03	0.04	
HALF LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.24	4.17	0.13	0.18	
THREE QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.23	4.35	0.19	0.26	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.22	4.55	0.23	0.33	

INSWING OR OUTSWING DOOR WITH RAISED PANEL, C/W OVALO PROFILE OR RESTORATION PROFILE, STANDARD OR FRONT ENTRY STILES AND RAILS							
FULL PANEL			0.39	2.56			
FULL PANEL, SWINGING SCREEN W/ STORM INSERT			0.26	3.85			

INSWING OR OUTSWING DOOR, C/W OVALO PROFILE OR RAISED MOULDING WITH 9/16" SPACER OR RESTORATION PROFILE WITH 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.42	2.38	0.03	0.04	
HALF LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.36	2.78	0.13	0.16	
THREE QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.33	3.03	0.19	0.23	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.31	3.23	0.23	0.28	

INSWING OR OUTSWING DOOR, SWINGING SCREEN DOOR WITH STORM INSERT C/W OVALO PROFILE WITH 9/16" SPACER, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.27	3.70	0.03	0.04	
HALF LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.24	4.17	0.13	0.18	
THREE QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.23	4.35	0.19	0.26	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.22	4.55	0.23	0.33	

INSWING OR OUTSWING DOOR WITH FLAT PANEL, C/W OVALO PROFILE OR RESTORATION PROFILE, STANDARD OR FRONT ENTRY STILES AND RAILS							
FULL PANEL			0.43	2.33			
FULL PANEL, SWINGING SCREEN W/ STORM INSERT			0.28	3.57			



# NFRC ENERGY PERFORMANCE TEST RESULTS

PRODUCT DESCRIPTION	GLAZING	GAP FILL	U FACTOR	R VALUE	SHGC	VT	COND. RESIST.
<b>1 3/4" SIDELIGHT - FIXED INSWING</b>							
C/W OVALO PROFILE OR RAISED MOULDING WITH 9/16" SPACER OR RESTORATION PROFILE WITH 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY HEAD AND SILL RAILS							
QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.38	2.63	0.03	0.03	
HALF LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.36	2.78	0.10	0.13	
THREE QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.35	2.86	0.15	0.19	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.34	2.94	0.18	0.23	
FULL PANEL, RAISED PANEL			0.38	2.63			

C/W OVALO PROFILE OR RAISED MOULDING WITH 9/16" SPACER OR RESTORATION PROFILE WITH 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY HEAD AND SILL RAILS							
QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.44	2.27	0.03	0.03	
HALF LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.40	2.50	0.10	0.13	
THREE QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.38	2.63	0.15	0.19	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.36	2.78	0.18	0.23	
FULL PANEL, FLAT PANEL			0.38	2.63			

<b>2 1/4" SIDELIGHT - FIXED INSWING</b>							
C/W HERITAGE PROFILE OR RAISED MOULDING WITH 9/16" SPACER OR 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY HEAD AND SILL RAILS							
QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.36	2.78	0.03	0.03	
HALF LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.34	2.94	0.10	0.13	
THREE QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.33	3.03	0.15	0.18	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.32	3.13	0.18	0.22	
FULL PANEL, RAISED PANEL			0.36	2.78	0.02		

C/W HERITAGE PROFILE OR RAISED MOULDING WITH 9/16" SPACER OR 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY HEAD AND SILL RAILS							
QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.42	2.38	0.03	0.03	
HALF LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.38	2.63	0.10	0.13	
THREE QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.36	2.78	0.15	0.18	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.34	2.94	0.18	0.22	
FULL PANEL, FLAT PANEL			0.43	2.33	0.02		

<b>FRENCH DOOR INSWING TRANSOM</b>							
9/16", 1 9/16" STILES AND RAILS							
CLEAR	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.27	0.49	57
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	57
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.21	0.38	57
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	57

3/8", 1 9/16" STILES AND RAILS							
CLEAR	3MM LOW E/CLEAR	ARGON	0.30	3.33	0.27	0.49	57
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.30	3.33	0.24	0.43	57
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.33	3.03	0.22	0.38	57
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.33	3.03	0.24	0.43	57



# NFRC ENERGY PERFORMANCE TEST RESULTS

PRODUCT DESCRIPTION	GLAZING	GAP FILL	U FACTOR	R VALUE	SHGC	VT	COND. RESIST.
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2 1/4" FRENCH DOOR							
INSWING OR OUTSWING DOOR, C/W HERITAGE PROFILE OR RAISED MOULDING WITH 9/16" OR 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.36	2.78	0.03	0.04	
HALF LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.34	2.94	0.13	0.16	
THREE QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.32	3.13	0.19	0.23	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.31	3.23	0.23	0.28	

INSWING OR OUTSWING DOOR, SWINGING SCREEN DOOR WITH STORM INSERT C/W HERITAGE PROFILE WITH 9/16" OR 3/8" SPACER, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.24	4.17	0.03	0.04	
HALF LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.22	4.55	0.16	0.18	
THREE QUARTER LIGHT, RAISED PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.21	4.76	0.18	0.26	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.21	4.76	0.23	0.33	

INSWING OR OUTSWING DOOR WITH RAISED PANEL, C/W HERITAGE PROFILE WITH STANDARD OR FRONT ENTRY STILES AND RAILS							
FULL PANEL			0.36	2.78			
FULL PANEL, SWINGING SCREEN W/ STORM INSERT			0.25	4.00			

INSWING OR OUTSWING DOOR, C/W HERITAGE PROFILE OR RAISED MOULDING WITH 9/16" OR 3/8" SPACER, SDL, INTERNAL GRILL, LEAD OR CLEAR, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.40	2.50	0.03	0.04	
HALF LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.36	2.78	0.13	0.16	
THREE QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	ARGON	0.33	3.03	0.19	0.23	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	ARGON	0.31	3.23	0.23	0.28	

INSWING OR OUTSWING DOOR, SWINGING SCREEN DOOR WITH STORM INSERT C/W HERITAGE PROFILE WITH 9/16" OR 3/8" SPACER, STANDARD OR FRONT ENTRY STILES AND RAILS							
QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.26	3.85	0.03	0.04	
HALF LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.23	4.35	0.13	0.18	
THREE QUARTER LIGHT, FLAT PANEL	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.21	4.76	0.18	0.26	
FULL LIGHT	3 OR 4 MM LOW E/CLEAR	AIR / ARGON	0.21	4.76	0.23	0.33	

INSWING OR OUTSWING DOOR WITH FLAT PANEL, C/W HERITAGE PROFILE WITH STANDARD OR FRONT ENTRY STILES AND RAILS							
FULL PANEL			0.41	2.44			
FULL PANEL, SWINGING SCREEN W/ STORM INSERT			0.27	3.70			



# NFRC ENERGY PERFORMANCE TEST RESULTS

PRODUCT DESCRIPTION	GLAZING	GAP FILL	U FACTOR	R VALUE	SHGC	VT	COND. RESIST.
<b>AWNING</b>							
OVALO PROFILE WITH 9/16" SPACER OR RESTORATION PROFILE WITH 3/8" SPACER							
CLEAR	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.26	0.47	55
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.24	0.43	55
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.32	3.13	0.22	0.38	55
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.31	3.23	0.24	0.43	55

<b>CASEMENT</b>							
9/16" SPACER WITH OVALO PROFILE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.24	0.44	59
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.22	0.38	59
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.19	0.33	59
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.22	0.38	59
3/8" SPACER WITH OVALO PROFILE							
CLEAR	4MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	56
LEAD OVERLAY	4MM LOW E/CLEAR	ARGON	0.29	3.45	0.22	0.38	56
SDL 1 1/4" - 2 1/4"	4MM LOW E/CLEAR	ARGON	0.33	3.03	0.19	0.33	56
SDL 5/8" - 7/8"	4MM LOW E/CLEAR	ARGON	0.32	3.13	0.22	0.38	56
3/8" SPACER WITH RESTORATION PROFILE							
CLEAR	3MM OR 4MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.44	56
LEAD OVERLAY	3MM OR 4MM LOW E/CLEAR	ARGON	0.29	3.45	0.22	0.38	56
SDL 1 1/4" - 2 1/4"	3MM OR 4MM LOW E/CLEAR	ARGON	0.33	3.03	0.19	0.33	56
SDL 5/8" - 7/8"	3MM OR 4MM LOW E/CLEAR	ARGON	0.32	3.13	0.22	0.38	56

<b>CASEMENT TRANSOM</b>							
STANDARD STILES AND RAILS C/W 9/16" SPACER WITH OVALO PROFILE OR 3/8" SPACER WITH RESTORATION PROFILE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.27	0.49	55
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.24	0.43	55
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.32	3.13	0.22	0.38	55
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.31	3.23	0.24	0.43	55
9/16" SPACER WITH OVALO PROFILE AND 2.75" STILES TO LINE UP WITH 500 SERIES HUNG UNIT OR 2.53" STILE TO LINE UP WITH OUTSWING SIDELITE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.27	0.49	49
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	49
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.21	0.28	49
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	49
3/8" SPACER WITH RESTORATION PROFILE AND 2.75" STILES TO LINE UP WITH 500 SERIES HUNG UNIT OR 2.53" STILES TO LINE UP WITH OUTSWING SIDELITE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.27	0.49	56
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	56
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.33	3.03	0.22	0.38	56
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.32	3.13	0.24	0.43	56
4.5" STILES TO LINE UP WITH FRENCH DOOR C/W 9/16" SPACER WITH OVALO PROFILE OR 3/8" SPACER WITH RESTORATION PROFILE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.31	3.23	0.18	0.31	56
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.31	3.23	0.16	0.27	56
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.34	2.94	0.14	0.24	56
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.33	3.03	0.16	0.27	56



# NFRC ENERGY PERFORMANCE TEST RESULTS

PRODUCT DESCRIPTION	GLAZING	GAP FILL	U FACTOR	R VALUE	SHGC	VT	COND. RESIST.
<b>500 SINGLE HUNG / DOUBLE HUNG</b>							
9/16" SPACER WITH OVALO PROFILE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.27	0.49	56
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	56
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.21	0.38	56
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	56
3/8" SPACER WITH RESTORATION PROFILE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.27	0.49	54
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.29	3.45	0.24	0.43	54
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.34	2.94	0.22	0.38	54
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.33	3.03	0.24	0.43	54
<b>WEIGHT &amp; CHAIN</b>							
9/16" SPACER WITH OVALO PROFILE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.24	0.44	56
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.22	0.38	56
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.19	0.33	56
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.22	0.38	56
3/8" SPACER WITH RESTORATION PROFILE							
CLEAR	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.27	0.44	54
INTERNAL GRILL OR LEAD OVERLAY	3MM LOW E/CLEAR	ARGON	0.28	3.57	0.22	0.38	54
SDL 1 1/4" - 2 1/4"	3MM LOW E/CLEAR	ARGON	0.32	3.13	0.19	0.33	54
SDL 5/8" - 7/8"	3MM LOW E/CLEAR	ARGON	0.31	3.23	0.22	0.38	54