

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)	(Imperial)	(Imperial)
Awning #1173 CAN/CSA A440-00 Evaluation Report # 3106153-1 Air - A3 Water - B7 Structural - C4 Forced Entry - F20	DUAL LITE												
	Clear – air – clear	18					0.51	0.54	45	0.41	2.44	0.480	2.08
	Clear – air – clear, grille	15					0.46	0.49	45	0.41	2.44	0.480	2.08
	Clear – air – LOF (3)	28	●	●	●		0.48	0.50	55	0.32	3.13	0.335	2.99
	Clear – air – LOF, grille	25	●	●	●		0.43	0.45	55	0.32	3.13	0.335	2.99
	Clear – argon – LOF (3)	32	●	●	●	●	0.48	0.50	58	0.29	3.45	0.294	3.40
	Clear – argon – LOF, grille	29	●	●	●	●	0.43	0.45	58	0.29	3.45	0.294	3.40
	Clear – argon/krypton – LOF (3)	32	●	●	●	●	0.48	0.50	59	0.29	3.45	0.294	3.40
	Clear – argon/krypton – LOF, grille	29	●	●	●	●	0.44	0.45	59	0.29	3.45	0.294	3.40
	Solar "e" – air – clear (2)	18	●	●			0.31	0.36	54	0.32	3.13	0.337	2.97
	Solar "e" – air – clear, grille	17	●	●			0.29	0.33	54	0.32	3.13	0.337	2.97
	Solar "e" – argon – clear (2)	22	●	●			0.31	0.36	58	0.29	3.45	0.297	3.37
	Solar "e" – argon – clear, grille	20	●	●			0.28	0.33	58	0.29	3.45	0.297	3.37
	Solar "e" – argon/krypton – clear (2)	22	●	●			0.31	0.36	58	0.29	3.45	0.297	3.37
	Solar "e" – argon/krypton – clear, grille	20	●	●			0.28	0.33	58	0.29	3.45	0.297	3.37
	Bronze – air – clear	13					0.42	0.41	45	0.41	2.44	0.480	2.08
	Bronze – air – clear, grille	11					0.38	0.37	45	0.41	2.44	0.480	2.08
	Bronze – argon – clear	15					0.42	0.41	47	0.40	2.50	0.455	2.20
	Bronze – argon – clear, grille	12					0.38	0.37	47	0.40	2.50	0.455	2.20
	Bronze – argon/krypton – clear	15					0.42	0.41	47	0.40	2.50	0.455	2.20
	Bronze – argon/krypton – clear, grille	12					0.38	0.37	47	0.40	2.50	0.455	2.20
	Bronze – air – LOF (3)	22	●	●			0.38	0.37	55	0.32	3.13	0.335	2.99
	Bronze – air – LOF, grille	20	●	●			0.35	0.34	55	0.32	3.13	0.335	2.99
	Bronze – argon – LOF (3)	26	●	●	●		0.38	0.37	58	0.29	3.45	0.294	3.40
	Bronze – argon – LOF, grille	24	●	●			0.35	0.34	58	0.29	3.45	0.294	3.40
	Bronze – argon/krypton – LOF (3)	26	●	●	●		0.38	0.37	59	0.29	3.45	0.294	3.40
	Bronze – argon/krypton – LOF, grille	24	●	●	●		0.35	0.34	59	0.29	3.45	0.294	3.40
	Grey – air – clear	12					0.40	0.37	45	0.41	2.44	0.480	2.08
	Grey – air – clear, grille	10					0.37	0.33	45	0.41	2.44	0.480	2.08
	Grey – argon – clear	13					0.40	0.37	47	0.40	2.50	0.455	2.20
	Grey – argon – clear, grille	11					0.36	0.33	47	0.40	2.50	0.455	2.20
	Grey – argon/krypton – clear	13					0.40	0.37	47	0.40	2.50	0.455	2.20
	Grey – argon/krypton – clear, grille	11					0.36	0.33	47	0.40	2.50	0.455	2.20
	Grey – air – LOF (3)	22	●	●			0.37	0.34	55	0.32	3.13	0.335	2.99
	Grey – air – LOF, grille	19	●	●			0.33	0.31	55	0.32	3.13	0.335	2.99
	Grey – argon – LOF (3)	25	●	●	●		0.36	0.34	58	0.29	3.45	0.294	3.40
	Grey – argon – LOF, grille	23	●	●			0.33	0.31	58	0.29	3.45	0.294	3.40
	Grey – argon/krypton – LOF (3)	25	●	●	●		0.36	0.34	59	0.29	3.45	0.294	3.40
	Grey – argon/krypton – LOF, grille	23	●	●	●		0.33	0.31	59	0.29	3.45	0.294	3.40
	366 – air – clear (2)	15	●	●			0.19	0.43	57	0.29	3.45	0.291	3.44
366 – air – clear, grille	14	●	●			0.17	0.39	57	0.29	3.45	0.291	3.44	
366 – argon – clear (2)	19	●	●	●		0.19	0.43	61	0.26	3.85	0.243	4.12	
366 – argon – clear, grille	17	●	●	●		0.17	0.39	61	0.26	3.85	0.243	4.12	
366 – argon/krypton – clear (2)	19	●	●	●		0.19	0.43	61	0.26	3.85	0.243	4.12	
366 – argon/krypton – clear, grille	17	●	●	●		0.17	0.39	61	0.26	3.85	0.243	4.12	

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program											Centre of Glass	
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)	(Imperial)	(Imperial)
Awning #1173 CAN/CSA A440-00 Evaluation Report # 3106153-1 Air - A3 Water - B7 Structural - C4 Forced Entry - F20	TRIPLE LITE												
	Clear – argon – clear – argon – LOF (5)	35	●	●	●	●	0.43	0.45	66	0.24	4.17	0.224	4.46
	Clear – argon – clear – argon – LOF, grille	33	●	●	●	●	0.39	0.41	66	0.24	4.17	0.224	4.46
	Clear – argon – LOF – argon – LOF (3&5)	37	●	●	●	●	0.40	0.42	71	0.21	4.76	0.179	5.59
	Clear – argon – LOF – argon – LOF, grille	35	●	●	●	●	0.37	0.38	71	0.21	4.76	0.179	5.59
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	36	●	●	●	●	0.43	0.45	66	0.23	4.35	0.218	4.59
	Clear – argon/krypton – clear – argon/krypton – LOF, grille	34	●	●	●	●	0.39	0.41	66	0.23	4.35	0.218	4.59
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	38	●	●	●	●	0.40	0.42	71	0.20	5.00	0.173	5.78
	Clear – argon/krypton – LOF – argon/krypton – LOF, grille	35	●	●	●	●	0.37	0.38	71	0.21	4.76	0.173	5.78
	Clear – krypton – clear – krypton – LOF (5)	39	●	●	●	●	0.43	0.45	69	0.21	4.76	0.188	5.32
	Clear – krypton – clear – krypton – LOF, grille	36	●	●	●	●	0.39	0.41	69	0.21	4.76	0.188	5.32
	Clear – krypton – LOF – krypton – LOF (3&5)	41	●	●	●	●	0.40	0.42	75	0.18	5.56	0.141	7.09
	Clear – krypton – LOF – krypton – LOF, grille	39	●	●	●	●	0.37	0.38	75	0.18	5.56	0.141	7.09
	Solar "e" – argon – clear – argon – clear (2)	26	●	●	●	●	0.28	0.33	66	0.24	4.17	0.230	4.35
	Solar "e" – argon – clear – argon – clear, grille	25	●	●	●	●	0.26	0.30	66	0.24	4.17	0.230	4.35
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	26	●	●	●	●	0.28	0.33	67	0.24	4.17	0.224	4.46
	Solar "e" – argon/krypton – clear – argon/krypton – clear, grille	25	●	●	●	●	0.26	0.30	67	0.24	4.17	0.224	4.46
	Solar "e" – krypton – clear – krypton – clear (2)	29	●	●	●	●	0.28	0.33	69	0.22	4.55	0.198	5.05
	Solar "e" – krypton – clear – krypton – clear, grille	28	●	●	●	●	0.26	0.30	69	0.22	4.55	0.198	5.05
	Bronze – argon – clear – argon – clear	25	●	●	●		0.37	0.37	61	0.29	3.45	0.305	3.28
	Bronze – argon – clear – argon – clear, grille	24	●	●			0.34	0.33	61	0.29	3.45	0.305	3.28
	Bronze – argon/krypton – clear – argon/krypton – clear	25	●	●	●		0.37	0.37	61	0.29	3.45	0.301	3.32
	Bronze – argon/krypton – clear – argon/krypton – clear, grille	24	●	●			0.34	0.33	61	0.29	3.45	0.301	3.32
	Bronze – krypton – clear – krypton – clear	28	●	●	●		0.37	0.37	63	0.27	3.70	0.277	3.61
	Bronze – krypton – clear – krypton – clear, grille	26	●	●	●		0.34	0.33	63	0.27	3.70	0.277	3.61
	Bronze – argon – clear – argon – LOF (5)	30	●	●	●	●	0.34	0.34	66	0.24	4.17	0.224	4.46
	Bronze – argon – clear – argon – LOF, grille	28	●	●	●	●	0.31	0.31	66	0.24	4.17	0.224	4.46
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	31	●	●	●	●	0.34	0.34	66	0.23	4.35	0.218	4.59
	Bronze – argon/krypton – clear – argon/krypton – LOF, grille	29	●	●	●	●	0.31	0.31	66	0.23	4.35	0.218	4.59
	Bronze – krypton – clear – krypton – LOF (5)	34	●	●	●	●	0.34	0.34	69	0.21	4.76	0.188	5.32
	Bronze – krypton – clear – krypton – LOF, grille	32	●	●	●	●	0.31	0.31	69	0.21	4.76	0.188	5.32
	Bronze – argon – LOF – argon – LOF (3&5)	32	●	●	●	●	0.32	0.31	71	0.21	4.76	0.179	5.59
	Bronze – argon – LOF – argon – LOF, grille	31	●	●	●	●	0.29	0.28	71	0.21	4.76	0.179	5.59
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	34	●	●	●	●	0.32	0.31	71	0.20	5.00	0.173	5.78
	Bronze – argon/krypton – LOF – argon/krypton – LOF, grille	31	●	●	●	●	0.29	0.28	71	0.21	4.76	0.173	5.78
	Bronze – krypton – LOF – krypton – LOF (3&5)	36	●	●	●	●	0.32	0.31	75	0.18	5.56	0.141	7.09
	Bronze – krypton – LOF – krypton – LOF, grille	34	●	●	●	●	0.29	0.28	75	0.18	5.56	0.141	7.09

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Ratings (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Awning #1173 CAN/CSA A440-00 Evaluation Report # 3106153-1 Air - A3 Water - B7 Structural - C4 Forced Entry - F20	TRIPLE LITE										
	Grey – argon – clear – argon – clear	25	●	●	●		0.36	0.34	61	0.29	3.45
	Grey – argon – clear – argon – clear, grille	22	●	●			0.32	0.30	61	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – clear	25	●	●	●		0.36	0.34	61	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – clear, grille	22	●	●			0.32	0.30	61	0.29	3.45
	Grey – krypton – clear – krypton – clear	27	●	●	●		0.35	0.34	63	0.27	3.70
	Grey – krypton – clear – krypton – clear, grille	25	●	●	●		0.32	0.30	63	0.27	3.70
	Grey – argon – clear – argon – LOF (5)	29	●	●	●	●	0.32	0.31	66	0.24	4.17
	Grey – argon – clear – argon – LOF, grille	27	●	●	●	●	0.30	0.28	66	0.24	4.17
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	30	●	●	●	●	0.32	0.31	66	0.23	4.35
	Grey – argon/krypton – clear – argon/krypton – LOF, grille	29	●	●	●	●	0.30	0.28	66	0.23	4.35
	Grey – krypton – clear – krypton – LOF (5)	32	●	●	●	●	0.32	0.31	69	0.21	4.76
	Grey – krypton – clear – krypton – LOF, grille	31	●	●	●	●	0.29	0.28	69	0.21	4.76
	Grey – argon – LOF – argon – LOF (3&5)	31	●	●	●	●	0.30	0.29	71	0.21	4.76
	Grey – argon – LOF – argon – LOF, grille	30	●	●	●	●	0.28	0.26	71	0.21	4.76
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	32	●	●	●	●	0.30	0.29	71	0.20	5.00
	Grey – argon/krypton – LOF – argon/krypton – LOF, grille	30	●	●	●	●	0.28	0.26	71	0.21	4.76
	Grey – krypton – LOF – krypton – LOF (3&5)	35	●	●	●	●	0.30	0.29	75	0.18	5.56
	Grey – krypton – LOF – krypton – LOF, grille	34	●	●	●	●	0.28	0.26	75	0.18	5.56
	366 – argon – clear – argon – clear (2)	22	●	●	●	●	0.17	0.39	69	0.22	4.55
	366 – argon – clear – argon – clear, grille	21	●	●	●	●	0.16	0.35	69	0.23	4.35
	366 – argon – clear – argon – 366, grille	25	●	●	●	●	0.15	0.28	75	0.19	5.26
	366 – argon/krypton – clear – argon/krypton – clear (2)	22	●	●	●	●	0.17	0.39	69	0.22	4.55
	366 – argon/krypton – clear – argon/krypton – clear, grille	22	●	●	●	●	0.16	0.35	69	0.22	4.55
	366 – argon/krypton – clear – argon/krypton – 366, grille	26	●	●	●	●	0.15	0.28	75	0.18	5.56
	366 – krypton – clear – krypton – clear (2)	25	●	●	●	●	0.17	0.39	72	0.20	5.00
	366 – krypton – clear – krypton – clear, grille	24	●	●	●	●	0.16	0.35	72	0.20	5.00
	366 – krypton – clear – krypton – 366, grille	29	●	●	●	●	0.15	0.28	78	0.16	6.25

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.305	3.28
0.305	3.28
0.301	3.32
0.301	3.32
0.277	3.61
0.277	3.61
0.224	4.46
0.224	4.46
0.218	4.59
0.218	4.59
0.188	5.32
0.188	5.32
0.179	5.59
0.179	5.59
0.173	5.78
0.173	5.78
0.141	7.09
0.141	7.09
0.198	5.05
0.198	5.05
0.143	6.99
0.192	5.20
0.192	5.20
0.137	7.30
0.165	6.06
0.165	6.06
0.102	9.80

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Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value (Imperial)	"R" Value (Imperial)	"U" Value (Imperial)	"R" Value (Imperial)
			A	B	C	D							
Casement #1171 CAN/CSA A440-00 Evaluation Report # 3106153-2 Air - A3 Water - B7 Structural - C4 Structural - (two snubbers) C5 Forced Entry - F20	DUAL LITE												
	Clear – air – clear	17					0.51	0.54	46	0.41	2.44	0.480	2.08
	Clear – air – clear, grille	15					0.46	0.49	46	0.41	2.44	0.480	2.08
	Clear – air – LOF (3)	26	•	•	•		0.47	0.48	56	0.32	3.13	0.335	2.99
	Clear – air – LOF, grille	23	•	•			0.42	0.44	56	0.32	3.13	0.335	2.99
	Clear – argon – LOF (3)	30	•	•	•	•	0.47	0.48	59	0.29	3.45	0.294	3.40
	Clear – argon – LOF, grille	28	•	•	•		0.43	0.44	59	0.29	3.45	0.294	3.40
	Clear – argon/krypton – LOF (3)	30	•	•	•	•	0.47	0.48	59	0.29	3.45	0.294	3.40
	Clear – argon/krypton – LOF, grille	28	•	•	•		0.43	0.44	59	0.29	3.45	0.294	3.40
	Solar "e" – air – clear (2)	17	•	•			0.31	0.35	56	0.32	3.13	0.337	2.97
	Solar "e" – air – clear, grille	15	•	•			0.28	0.32	56	0.32	3.13	0.337	2.97
	Solar "e" – argon – clear (2)	20	•	•			0.30	0.35	59	0.29	3.45	0.297	3.37
	Solar "e" – argon – clear, grille	19	•	•			0.28	0.32	59	0.29	3.45	0.297	3.37
	Solar "e" – argon/krypton – clear (2)	20	•	•			0.30	0.35	59	0.29	3.45	0.297	3.37
	Solar "e" – argon/krypton – clear, grille	19	•	•			0.28	0.32	59	0.29	3.45	0.297	3.37
	Bronze – air – clear	12					0.41	0.40	46	0.41	2.44	0.480	2.08
	Bronze – air – clear, grille	9					0.37	0.36	46	0.41	2.44	0.480	2.08
	Bronze – argon – clear	14					0.41	0.40	47	0.39	2.56	0.455	2.20
	Bronze – argon – clear, grille	12					0.37	0.36	47	0.39	2.56	0.455	2.20
	Bronze – argon/krypton – clear	14					0.41	0.40	47	0.39	2.56	0.455	2.20
	Bronze – argon/krypton – clear, grille	12					0.37	0.36	47	0.39	2.56	0.455	2.20
	Bronze – air – LOF (3)	21	•	•			0.38	0.36	56	0.32	3.13	0.335	2.99
	Bronze – air – LOF, grille	19	•	•			0.34	0.33	56	0.32	3.13	0.335	2.99
	Bronze – argon – LOF (3)	25	•	•	•		0.38	0.36	59	0.29	3.45	0.294	3.40
	Bronze – argon – LOF, grille	23	•	•			0.34	0.33	59	0.29	3.45	0.294	3.40
	Bronze – argon/krypton – LOF (3)	25	•	•	•		0.38	0.36	59	0.29	3.45	0.294	3.40
	Bronze – argon/krypton – LOF, grille	23	•	•			0.34	0.33	59	0.29	3.45	0.294	3.40
	Grey – air – clear	11					0.39	0.36	46	0.41	2.44	0.480	2.08
	Grey – air – clear, grille	9					0.36	0.33	46	0.41	2.44	0.480	2.08
	Grey – argon – clear	13					0.39	0.36	47	0.39	2.56	0.455	2.20
	Grey – argon – clear, grille	11					0.36	0.33	47	0.39	2.56	0.455	2.20
	Grey – argon/krypton – clear	13					0.39	0.36	47	0.39	2.56	0.455	2.20
	Grey – argon/krypton – clear, grille	11					0.36	0.33	47	0.39	2.56	0.455	2.20
	Grey – air – LOF (3)	20	•	•			0.36	0.33	56	0.32	3.13	0.335	2.99
	Grey – air – LOF, grille	18	•	•			0.33	0.30	56	0.32	3.13	0.335	2.99
	Grey – argon – LOF (3)	24	•	•			0.36	0.33	59	0.29	3.45	0.294	3.40
	Grey – argon – LOF, grille	21	•	•			0.32	0.30	59	0.29	3.45	0.294	3.40
	Grey – argon/krypton – LOF (3)	24	•	•			0.36	0.33	59	0.29	3.45	0.294	3.40
	Grey – argon/krypton – LOF, grille	21	•	•			0.32	0.30	59	0.29	3.45	0.294	3.40
	366 – air – clear (2)	14	•	•			0.19	0.42	59	0.29	3.45	0.291	3.44
	366 – air – clear, grille	13	•	•			0.17	0.38	59	0.29	3.45	0.291	3.44
	366 – argon – clear (2)	17	•	•			0.18	0.42	63	0.26	3.85	0.243	4.12
	366 – argon – clear, grille	17	•	•	•		0.17	0.38	63	0.26	3.85	0.243	4.12
	366 – argon/krypton – clear (2)	17	•	•	•		0.18	0.42	63	0.26	3.85	0.243	4.12
	366 – argon/krypton – clear, grille	17	•	•	•		0.17	0.38	63	0.26	3.85	0.243	4.12

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program											Centre of Glass	
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	"U" Value (Imperial)	"R" Value (Imperial)
			A	B	C	D				(Imperial)	(Imperial)		
Casement #1171 CAN/CSA A440-00 Evaluation Report # 3106153-2 Air - A3 Water - B7 Structural - C4 Structural - (two snubbers) C5 Forced Entry - F20	TRIPLE LITE												
	Clear – argon – clear – argon – LOF (5)	33	•	•	•	•	0.42	0.44	67	0.24	4.17	0.224	4.46
	Clear – argon – clear – argon – LOF, grille	31	•	•	•	•	0.38	0.40	67	0.24	4.17	0.224	4.46
	Clear – argon – LOF – argon – LOF (3&5)	35	•	•	•	•	0.39	0.41	71	0.21	4.76	0.179	5.59
	Clear – argon – LOF – argon – LOF, grille	34	•	•	•	•	0.36	0.37	71	0.21	4.76	0.179	5.59
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	33	•	•	•	•	0.42	0.44	67	0.24	4.17	0.218	4.59
	Clear – argon/krypton – clear – argon/krypton – LOF, grille	31	•	•	•	•	0.38	0.40	67	0.24	4.17	0.218	4.59
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	35	•	•	•	•	0.39	0.41	71	0.21	4.76	0.173	5.78
	Clear – argon/krypton – LOF – argon/krypton – LOF, grille	34	•	•	•	•	0.36	0.37	71	0.21	4.76	0.173	5.78
	Clear – krypton – clear – krypton – LOF (5)	36	•	•	•	•	0.42	0.44	70	0.22	4.55	0.188	5.32
	Clear – krypton – clear – krypton – LOF, grille	34	•	•	•	•	0.38	0.40	70	0.22	4.55	0.188	5.32
	Clear – krypton – LOF – krypton – LOF (3&5)	38	•	•	•	•	0.40	0.41	75	0.19	5.26	0.141	7.09
	Clear – krypton – LOF – krypton – LOF, grille	36	•	•	•	•	0.36	0.37	75	0.19	5.26	0.141	7.09
	Solar "e" – argon – clear – argon – clear (2)	25	•	•	•	•	0.28	0.32	66	0.24	4.17	0.230	4.35
	Solar "e" – argon – clear – argon – clear, grille	22	•	•	•	•	0.25	0.29	66	0.25	4.00	0.230	4.35
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	25	•	•	•	•	0.28	0.32	66	0.24	4.17	0.224	4.46
	Solar "e" – argon/krypton – clear – argon/krypton – clear, grille	24	•	•	•	•	0.25	0.29	66	0.24	4.17	0.224	4.46
	Solar "e" – krypton – clear – krypton – clear (2)	27	•	•	•	•	0.27	0.32	68	0.22	4.55	0.198	5.05
	Solar "e" – krypton – clear – krypton – clear, grille	25	•	•	•	•	0.25	0.29	68	0.23	4.35	0.198	5.05
	Bronze – argon – clear – argon – clear	24	•	•			0.36	0.36	61	0.29	3.45	0.305	3.28
	Bronze – argon – clear – argon – clear, grille	22	•	•			0.33	0.33	61	0.29	3.45	0.305	3.28
	Bronze – argon/krypton – clear – argon/krypton – clear	24	•	•			0.36	0.36	61	0.29	3.45	0.301	3.32
	Bronze – argon/krypton – clear – argon/krypton – clear, grille	22	•	•			0.33	0.33	61	0.29	3.45	0.301	3.32
	Bronze – krypton – clear – krypton – clear	26	•	•	•		0.36	0.36	63	0.27	3.70	0.277	3.61
	Bronze – krypton – clear – krypton – clear, grille	24	•	•	•		0.33	0.33	63	0.27	3.70	0.277	3.61
	Bronze – argon – clear – argon – LOF (5)	28	•	•	•	•	0.33	0.33	67	0.24	4.17	0.224	4.46
	Bronze – argon – clear – argon – LOF, grille	26	•	•	•	•	0.30	0.30	67	0.24	4.17	0.224	4.46
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	28	•	•	•	•	0.33	0.33	67	0.24	4.17	0.218	4.59
	Bronze – argon/krypton – clear – argon/krypton – LOF, grille	26	•	•	•	•	0.30	0.30	67	0.24	4.17	0.218	4.59
	Bronze – krypton – clear – krypton – LOF (5)	31	•	•	•	•	0.33	0.33	70	0.22	4.55	0.188	5.32
	Bronze – krypton – clear – krypton – LOF, grille	29	•	•	•	•	0.30	0.30	70	0.22	4.55	0.188	5.32
	Bronze – argon – LOF – argon – LOF (3&5)	31	•	•	•	•	0.31	0.31	71	0.21	4.76	0.179	5.59
	Bronze – argon – LOF – argon – LOF, grille	30	•	•	•	•	0.29	0.28	71	0.21	4.76	0.179	5.59
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	31	•	•	•	•	0.31	0.31	71	0.21	4.76	0.173	5.78
	Bronze – argon/krypton – LOF – argon/krypton – LOF, grille	30	•	•	•	•	0.29	0.28	71	0.21	4.76	0.173	5.78
	Bronze – krypton – LOF – krypton – LOF (3&5)	33	•	•	•	•	0.31	0.31	75	0.19	5.26	0.141	7.09
	Bronze – krypton – LOF – krypton – LOF, grille	32	•	•	•	•	0.29	0.28	75	0.19	5.26	0.141	7.09

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Casement #1171 CAN/CSA A440-00 Evaluation Report # 3106153-2 Air - A3 Water - B7 Structural - C4 Structural - (two snubbers) C5 Forced Entry - F20	TRIPLE LITE										
	Grey – argon – clear – argon – clear	23	●	●			0.35	0.33	61	0.29	3.45
	Grey – argon – clear – argon – clear, grille	21	●	●			0.32	0.30	61	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – clear	23	●	●			0.35	0.33	61	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – clear, grille	21	●	●			0.32	0.30	61	0.29	3.45
	Grey – krypton – clear – krypton – clear	26	●	●	●		0.35	0.33	63	0.27	3.70
	Grey – krypton – clear – krypton – clear, grille	24	●	●	●		0.32	0.30	63	0.27	3.70
	Grey – argon – clear – argon – LOF (5)	28	●	●	●	●	0.32	0.30	67	0.24	4.17
	Grey – argon – clear – argon – LOF, grille	26	●	●	●	●	0.29	0.27	67	0.24	4.17
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	28	●	●	●	●	0.32	0.30	67	0.24	4.17
	Grey – argon/krypton – clear – argon/krypton – LOF, grille	26	●	●	●	●	0.29	0.27	67	0.24	4.17
	Grey – krypton – clear – krypton – LOF (5)	30	●	●	●	●	0.32	0.30	70	0.22	4.55
	Grey – krypton – clear – krypton – LOF, grille	28	●	●	●	●	0.29	0.27	70	0.22	4.55
	Grey – argon – LOF – argon – LOF (3&5)	30	●	●	●	●	0.30	0.28	71	0.21	4.76
	Grey – argon – LOF – argon – LOF, grille	28	●	●	●	●	0.27	0.25	71	0.21	4.76
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	30	●	●	●	●	0.30	0.28	71	0.21	4.76
	Grey – argon/krypton – LOF – argon/krypton – LOF, grille	28	●	●	●	●	0.27	0.25	71	0.21	4.76
	Grey – krypton – LOF – krypton – LOF (3&5)	33	●	●	●	●	0.30	0.28	75	0.19	5.26
	Grey – krypton – LOF – krypton – LOF, grille	31	●	●	●	●	0.27	0.25	75	0.19	5.26
	366 – argon – clear – argon – clear (2)	21	●	●	●	●	0.17	0.38	68	0.22	4.55
	366 – argon – clear – argon – clear, grille	20	●	●	●	●	0.16	0.34	68	0.23	4.35
	366 – argon – clear – argon – 366, grille	24	●	●	●	●	0.15	0.27	75	0.19	5.26
	366 – argon/krypton – clear – argon/krypton – clear (2)	21	●	●	●	●	0.17	0.38	69	0.22	4.55
	366 – argon/krypton – clear – argon/krypton – clear, grille	20	●	●	●	●	0.16	0.34	69	0.23	4.35
	366 – argon/krypton – clear – argon/krypton – 366, grille	24	●	●	●	●	0.15	0.27	76	0.19	5.26
	366 – krypton – clear – krypton – clear (2)	24	●	●	●	●	0.17	0.38	71	0.20	5.00
	366 – krypton – clear – krypton – clear, grille	22	●	●	●	●	0.15	0.34	71	0.21	4.76
	366 – krypton – clear – krypton – 366, grille	28	●	●	●	●	0.15	0.27	78	0.16	6.25

Centre of Glass	
"U" Value	"R" Value
(Imperial)	(Imperial)

0.305	3.28
0.305	3.28
0.301	3.32
0.301	3.32
0.277	3.61
0.277	3.61
0.224	4.46
0.224	4.46
0.218	4.59
0.218	4.59
0.188	5.32
0.188	5.32
0.179	5.59
0.179	5.59
0.173	5.78
0.173	5.78
0.141	7.09
0.141	7.09
0.198	5.05
0.198	5.05
0.143	6.99
0.192	5.21
0.192	5.21
0.137	7.30
0.165	6.06
0.165	6.06
0.102	9.80

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Ratings (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)	(Imperial)	(Imperial)
Double Hung Tilt #1271 CAN/CSA A440-00 Evaluation Report # 3008057-4 Air - A2 Water - B6 Structural - C5 Forced Entry - F10	DUAL LITE												
	Clear – air – clear	17					0.58	0.61	48	0.44	2.27	0.480	2.08
	Clear – air – clear, grille	14					0.52	0.55	48	0.44	2.27	0.480	2.08
	Clear – air – LOF (3)	27	•	•	•		0.53	0.55	53	0.34	2.94	0.335	2.99
	Clear – air – LOF, grille	24	•	•			0.47	0.49	53	0.34	2.94	0.335	2.99
	Clear – argon – LOF (3)	31	•	•	•	•	0.53	0.55	57	0.31	3.23	0.294	3.40
	Clear – argon – LOF, grille	28	•	•	•		0.48	0.49	57	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF (3)	31	•	•	•	•	0.53	0.55	57	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF, grille	28	•	•	•		0.48	0.49	57	0.31	3.23	0.294	3.40
	Solar "e" – air – clear (2)	17	•				0.35	0.40	53	0.34	2.99	0.337	2.97
	Solar "e" – air – clear, grille	14	•				0.31	0.36	53	0.34	2.94	0.337	2.97
	Solar "e" – argon – clear (2)	20	•	•			0.34	0.40	56	0.31	3.23	0.297	3.37
	Solar "e" – argon – clear, grille	18	•	•			0.31	0.36	56	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear (2)	20	•	•			0.34	0.40	57	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear, grille	18	•	•			0.31	0.36	57	0.31	3.23	0.297	3.37
	Bronze – air – clear	11					0.47	0.45	44	0.44	2.27	0.480	2.08
	Bronze – air – clear, grille	8					0.42	0.40	44	0.44	2.27	0.480	2.08
	Bronze – argon – clear	12					0.47	0.45	46	0.43	2.33	0.455	2.20
	Bronze – argon – clear, grille	9					0.42	0.40	46	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear	12					0.46	0.45	46	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear, grille	9					0.42	0.40	46	0.43	2.33	0.455	2.20
	Bronze – air – LOF (3)	21	•	•			0.43	0.42	53	0.34	2.94	0.335	2.99
	Bronze – air – LOF, grille	18	•				0.38	0.37	53	0.34	2.94	0.335	2.99
	Bronze – argon – LOF (3)	24	•	•			0.42	0.42	57	0.31	3.23	0.294	3.40
	Bronze – argon – LOF, grille	22	•	•			0.38	0.37	57	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF (3)	24	•	•			0.42	0.42	57	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF, grille	22	•	•			0.38	0.37	57	0.31	3.23	0.294	3.40
	Grey – air – clear	10					0.45	0.41	44	0.44	2.27	0.480	2.08
	Grey – air – clear, grille	7					0.40	0.37	44	0.44	2.27	0.480	2.08
	Grey – argon – clear	11					0.44	0.41	46	0.43	2.33	0.455	2.20
	Grey – argon – clear, grille	8					0.40	0.37	46	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear	11					0.44	0.41	46	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear, grille	8					0.40	0.37	46	0.43	2.33	0.455	2.20
	Grey – air – LOF (3)	20	•				0.40	0.38	53	0.34	2.94	0.335	2.99
	Grey – air – LOF, grille	17	•				0.36	0.34	53	0.34	2.94	0.335	2.99
	Grey – argon – LOF (3)	23	•	•			0.40	0.38	57	0.31	3.23	0.294	3.40
	Grey – argon – LOF, grille	21	•	•			0.36	0.34	57	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF (3)	23	•	•			0.40	0.38	57	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF, grille	21	•	•			0.36	0.34	57	0.31	3.23	0.294	3.40
	366 – air – clear (2)	12	•	•			0.21	0.48	56	0.31	3.23	0.291	3.44
	366 – air – clear, grille	11	•	•			0.19	0.42	56	0.31	3.23	0.291	3.44
	366 – argon – clear (2)	15	•	•	•		0.20	0.48	60	0.28	3.57	0.243	4.12
	366 – argon – clear, grille	14	•	•	•		0.18	0.42	60	0.28	3.57	0.243	4.12
	366 – argon/krypton – clear (2)	15	•	•	•		0.20	0.48	60	0.28	3.57	0.243	4.12
	366 – argon/krypton – clear, grille	14	•	•	•		0.18	0.42	60	0.28	3.57	0.243	4.12

ENERGY RATINGS - U.S.A.

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Double Hung Tilt #1271 CAN/CSA A440-00 Evaluation Report # 3008057-4 Air - A2 Water - B6 Structural - C5 Forced Entry - F10	TRIPLE LITE										
	Clear – argon – clear – argon – LOF (5)	29	●	●	●	●	0.47	0.50	60	0.30	3.33
	Clear – argon – LOF – argon – LOF (3&5)	32	●	●	●	●	0.44	0.47	64	0.26	3.85
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	30	●	●	●	●	0.47	0.50	61	0.29	3.45
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	32	●	●	●	●	0.44	0.47	65	0.26	3.85
	Clear – krypton – clear – krypton – LOF (5)	35	●	●	●	●	0.47	0.50	64	0.25	4.00
	Clear – krypton – LOF – krypton – LOF (3&5)	37	●	●	●	●	0.45	0.47	69	0.22	4.55
	Solar "e" – argon – clear – argon – clear (2)	20	●	●			0.32	0.37	61	0.30	3.33
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	21	●	●			0.32	0.37	61	0.29	3.45
	Solar "e" – krypton – clear – krypton – clear (2)	24	●	●	●		0.31	0.37	65	0.26	3.85
	Bronze – argon – clear – argon – clear	20	●				0.41	0.41	56	0.34	2.94
	Bronze – argon/krypton – clear – argon/krypton – clear	20	●				0.41	0.41	56	0.34	2.94
	Bronze – krypton – clear – krypton – clear	24	●	●			0.41	0.41	59	0.31	3.23
	Bronze – argon – clear – argon – LOF (5)	23	●	●			0.38	0.38	60	0.30	3.33
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	25	●	●	●		0.38	0.38	61	0.29	3.45
	Bronze – krypton – clear – krypton – LOF (5)	30	●	●	●	●	0.38	0.38	64	0.25	4.00
	Bronze – argon – LOF – argon – LOF (3&5)	27	●	●	●		0.36	0.35	64	0.26	3.85
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	27	●	●	●	●	0.36	0.35	65	0.26	3.85
	Bronze – krypton – LOF – krypton – LOF (3&5)	32	●	●	●	●	0.35	0.35	69	0.22	4.55
	Grey – argon – clear – argon – clear	20	●				0.40	0.37	56	0.34	2.94
	Grey – argon/krypton – clear – argon/krypton – clear	20	●				0.40	0.37	56	0.34	2.94
	Grey – krypton – clear – krypton – clear	23	●	●			0.39	0.37	59	0.31	3.23
	Grey – argon – clear – argon – LOF (5)	22	●	●			0.36	0.35	60	0.30	3.33
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	23	●	●			0.36	0.35	61	0.29	3.45
	Grey – krypton – clear – krypton – LOF (5)	28	●	●	●	●	0.36	0.35	64	0.25	4.00
	Grey – argon – LOF – argon – LOF (3&5)	26	●	●	●		0.34	0.32	64	0.26	3.85
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	26	●	●	●	●	0.34	0.32	65	0.26	3.85
	Grey – krypton – LOF – krypton – LOF (3&5)	31	●	●	●	●	0.34	0.32	69	0.22	4.55
	366 – argon – clear – argon – clear (2)	15	●	●	●		0.19	0.43	63	0.28	3.57
	366 – argon/krypton – clear – argon/krypton – clear (2)	16	●	●	●		0.19	0.43	63	0.27	3.70
	366 – krypton – clear – krypton – clear (2)	21	●	●	●	●	0.19	0.43	67	0.23	4.35

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.270	3.70
0.226	4.42
0.262	3.82
0.218	4.59
0.209	4.78
0.163	6.13
0.275	3.64
0.267	3.75
0.214	4.67
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.250	4.00
0.241	4.15
0.180	5.56

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value (Imperial)	"R" Value (Imperial)	"U" Value	"R" Value
			A	B	C	D						(Imperial)	(Imperial)
Double Slider Lift-Out #1273 CAN/CSA A440-00 Evaluation Report # 3186469TOR-002A DSLO Air - A2 Water -B3 Structural - C3 Forced Entry - F20	DUAL LITE												
	Clear – air – clear	17					0.58	0.61	48	0.44	2.27	0.480	2.08
	Clear – air – clear, grille	14					0.52	0.55	48	0.44	2.27	0.480	2.08
	Clear – air – LOF (3)	27	•	•	•		0.53	0.55	55	0.34	2.94	0.335	2.99
	Clear – air – LOF, grille	24	•	•			0.47	0.49	55	0.34	2.94	0.335	2.99
	Clear – argon – LOF (3)	31	•	•	•	•	0.53	0.55	58	0.31	3.23	0.294	3.40
	Clear – argon – LOF, grille	27	•	•	•		0.47	0.49	58	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF (3)	31	•	•	•	•	0.53	0.55	58	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF, grille	27	•	•	•		0.47	0.49	58	0.31	3.23	0.294	3.40
	Solar "e" – air – clear (2)	17	•				0.35	0.40	54	0.34	2.94	0.337	2.97
	Solar "e" – air – clear, grille	14	•				0.31	0.36	54	0.34	2.94	0.337	2.97
	Solar "e" – argon – clear (2)	20	•	•			0.34	0.40	58	0.31	3.23	0.297	3.37
	Solar "e" – argon – clear, grille	18	•	•			0.31	0.36	58	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear (2)	20	•	•			0.34	0.40	58	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear, grille	18	•	•			0.31	0.36	58	0.31	3.23	0.297	3.37
	Bronze – air – clear	11					0.46	0.45	45	0.44	2.27	0.480	2.08
	Bronze – air – clear, grille	8					0.42	0.40	45	0.44	2.27	0.480	2.08
	Bronze – argon – clear	12					0.46	0.45	47	0.43	2.33	0.455	2.20
	Bronze – argon – clear, grille	9					0.42	0.40	47	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear	12					0.46	0.45	47	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear, grille	9					0.41	0.40	47	0.43	2.33	0.455	2.20
	Bronze – air – LOF (3)	21	•	•			0.42	0.42	55	0.34	2.94	0.335	2.99
	Bronze – air – LOF, grille	18	•				0.38	0.37	55	0.34	2.94	0.335	2.99
	Bronze – argon – LOF (3)	24	•	•			0.42	0.42	58	0.31	3.23	0.294	3.40
	Bronze – argon – LOF, grille	22	•	•			0.38	0.37	58	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF (3)	24	•	•			0.42	0.42	58	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF, grille	22	•	•			0.38	0.37	58	0.31	3.23	0.294	3.40
	Grey – air – clear	9					0.44	0.41	45	0.44	2.27	0.480	2.08
	Grey – air – clear, grille	7					0.40	0.37	45	0.44	2.27	0.480	2.08
	Grey – argon – clear	11					0.44	0.41	47	0.43	2.33	0.455	2.20
	Grey – argon – clear, grille	8					0.40	0.37	47	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear	11					0.44	0.41	47	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear, grille	8					0.40	0.37	47	0.43	2.33	0.455	2.20
	Grey – air – LOF (3)	20	•				0.40	0.38	55	0.34	2.94	0.335	2.99
	Grey – air – LOF, grille	17	•				0.36	0.34	55	0.34	2.94	0.335	2.99
	Grey – argon – LOF (3)	23	•	•			0.40	0.38	58	0.31	3.23	0.294	3.40
	Grey – argon – LOF, grille	21	•	•			0.36	0.34	58	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF (3)	23	•	•			0.40	0.38	58	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF, grille	21	•	•			0.36	0.34	58	0.31	3.23	0.294	3.40
	366 – air – clear (2)	12	•	•			0.21	0.47	58	0.31	3.23	0.291	3.44
	366 – air – clear, grille	11	•	•			0.19	0.42	58	0.31	3.23	0.291	3.44
	366 – argon – clear (2)	17	•	•	•		0.20	0.47	61	0.27	3.70	0.243	4.12
	366 – argon – clear, grille	15	•	•	•		0.18	0.42	61	0.27	3.70	0.243	4.12
	366 – argon/krypton – clear (2)	17	•	•	•		0.20	0.47	61	0.27	3.70	0.243	4.12
	366 – argon/krypton – clear, grille	15	•	•	•		0.18	0.42	61	0.27	3.70	0.243	4.12

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Double Slider Lift-Out #1273 CAN/CSA A440-00 Evaluation Report # 3186469TOR-002A DSLO Air - A2 Water -B3 Structural - C3 Forced Entry - F20	TRIPLE LITE										
	Clear – argon – clear – argon – LOF (5)	30	●	●	●	●	0.47	0.50	61	0.29	3.45
	Clear – argon – LOF – argon – LOF (3&5)	32	●	●	●	●	0.44	0.46	64	0.26	3.85
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	30	●	●	●	●	0.47	0.50	61	0.29	3.45
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	32	●	●	●	●	0.44	0.46	65	0.26	3.85
	Clear – krypton – clear – krypton – LOF (5)	35	●	●	●	●	0.47	0.50	65	0.25	4.00
	Clear – krypton – LOF – krypton – LOF (3&5)	37	●	●	●	●	0.45	0.46	69	0.22	4.55
	Solar "e" – argon – clear – argon – clear (2)	19	●	●			0.31	0.37	61	0.30	3.33
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	21	●	●			0.31	0.37	61	0.29	3.45
	Solar "e" – krypton – clear – krypton – clear (2)	25	●	●	●	●	0.31	0.37	65	0.25	4.00
	Bronze – argon – clear – argon – clear	20	●				0.41	0.41	56	0.34	2.94
	Bronze – argon/krypton – clear – argon/krypton – clear	20	●				0.41	0.41	57	0.34	2.94
	Bronze – krypton – clear – krypton – clear	24	●	●			0.41	0.41	59	0.31	3.23
	Bronze – argon – clear – argon – LOF (5)	25	●	●	●		0.38	0.38	61	0.29	3.45
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	25	●	●	●		0.38	0.38	61	0.29	3.45
	Bronze – krypton – clear – krypton – LOF (5)	30	●	●	●	●	0.38	0.38	65	0.25	4.00
	Bronze – argon – LOF – argon – LOF (3&5)	27	●	●	●		0.35	0.35	64	0.26	3.85
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	27	●	●	●		0.35	0.35	65	0.26	3.85
	Bronze – krypton – LOF – krypton – LOF (3&5)	32	●	●	●	●	0.35	0.35	69	0.22	4.55
	Grey – argon – clear – argon – clear	19	●				0.39	0.37	56	0.34	2.94
	Grey – argon/krypton – clear – argon/krypton – clear	19	●				0.39	0.37	57	0.34	2.94
	Grey – krypton – clear – krypton – clear	23	●	●			0.39	0.37	59	0.31	3.23
	Grey – argon – clear – argon – LOF (5)	23	●	●			0.36	0.34	61	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	23	●	●			0.36	0.34	61	0.29	3.45
	Grey – krypton – clear – krypton – LOF (5)	28	●	●	●	●	0.36	0.34	65	0.25	4.00
	Grey – argon – LOF – argon – LOF (3&5)	26	●	●	●		0.34	0.32	64	0.26	3.85
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	26	●	●	●		0.34	0.32	65	0.26	3.85
	Grey – krypton – LOF – krypton – LOF (3&5)	31	●	●	●	●	0.34	0.32	69	0.22	4.55
	366 – argon – clear – argon – clear (2)	15	●	●	●		0.19	0.43	62	0.28	3.57
	366 – argon/krypton – clear – argon/krypton – clear (2)	16	●	●	●		0.19	0.43	63	0.27	3.70
	366 – krypton – clear – krypton – clear (2)	21	●	●	●	●	0.19	0.43	67	0.23	4.35

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.270	3.70
0.226	4.42
0.262	3.82
0.218	4.59
0.209	4.78
0.163	6.13
0.275	3.64
0.267	3.75
0.214	4.67
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.250	4.00
0.241	4.15
0.180	5.56

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value (Imperial)	"R" Value (Imperial)	"U" Value	"R" Value
			A	B	C	D						(Imperial)	(Imperial)
Double Slider Tilt #1272 CAN/CSA A440-00 Evaluation Report # 3008057-5 Air - A2 Water -B2 Structural - C5 Forced Entry - F10	DUAL LITE												
	Clear – air – clear	16					0.58	0.61	48	0.44	2.27	0.480	2.08
	Clear – air – clear, grille	12					0.52	0.55	48	0.44	2.27	0.480	2.08
	Clear – air – LOF (3)	27	•	•	•		0.54	0.56	54	0.34	2.94	0.335	2.99
	Clear – air – LOF, grille	23	•	•			0.48	0.50	54	0.34	2.94	0.335	2.99
	Clear – argon – LOF (3)	31	•	•	•	•	0.54	0.56	58	0.31	3.23	0.294	3.40
	Clear – argon – LOF, grille	27	•	•	•		0.48	0.50	58	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF (3)	31	•	•	•	•	0.54	0.56	58	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF, grille	27	•	•	•		0.48	0.50	58	0.31	3.23	0.294	3.40
	Solar "e" – air – clear (2)	16	•				0.35	0.41	54	0.34	2.94	0.337	2.97
	Solar "e" – air – clear, grille	14	•				0.32	0.36	54	0.34	2.94	0.337	2.97
	Solar "e" – argon – clear (2)	20	•	•			0.35	0.41	57	0.31	3.23	0.297	3.37
	Solar "e" – argon – clear, grille	17	•	•			0.31	0.36	57	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear (2)	20	•	•			0.35	0.41	57	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear, grille	17	•	•			0.31	0.36	57	0.31	3.23	0.297	3.37
	Bronze – air – clear	9					0.47	0.46	45	0.45	2.22	0.480	2.08
	Bronze – air – clear, grille	6					0.42	0.41	45	0.45	2.22	0.480	2.08
	Bronze – argon – clear	12					0.47	0.46	46	0.43	2.33	0.455	2.20
	Bronze – argon – clear, grille	9					0.42	0.41	46	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear	12					0.47	0.46	46	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear, grille	9					0.42	0.41	46	0.43	2.33	0.455	2.20
	Bronze – air – LOF (3)	21	•	•			0.43	0.42	54	0.34	2.94	0.335	2.99
	Bronze – air – LOF, grille	18	•				0.39	0.38	54	0.34	2.94	0.335	2.99
	Bronze – argon – LOF (3)	24	•	•			0.43	0.42	58	0.31	3.23	0.294	3.40
	Bronze – argon – LOF, grille	22	•	•			0.39	0.38	58	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF (3)	24	•	•			0.43	0.42	58	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF, grille	22	•	•			0.39	0.38	58	0.31	3.23	0.294	3.40
	Grey – air – clear	8					0.45	0.42	45	0.45	2.22	0.480	2.08
	Grey – air – clear, grille	5					0.40	0.37	45	0.45	2.22	0.480	2.08
	Grey – argon – clear	11					0.45	0.42	46	0.43	2.33	0.455	2.20
	Grey – argon – clear, grille	8					0.40	0.37	46	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear	11					0.45	0.42	46	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear, grille	8					0.40	0.37	46	0.43	2.33	0.455	2.20
	Grey – air – LOF (3)	19	•				0.41	0.38	54	0.34	2.94	0.335	2.99
	Grey – air – LOF, grille	17	•				0.37	0.34	54	0.34	2.94	0.335	2.99
	Grey – argon – LOF (3)	23	•	•			0.41	0.38	58	0.31	3.23	0.294	3.40
	Grey – argon – LOF, grille	21	•	•			0.37	0.34	58	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF (3)	23	•	•			0.41	0.38	58	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF, grille	21	•	•			0.37	0.34	58	0.31	3.23	0.294	3.40
	366 – air – clear (2)	12	•	•			0.21	0.48	57	0.31	3.23	0.291	3.44
	366 – air – clear, grille	10	•	•			0.19	0.43	57	0.31	3.23	0.291	3.44
	366 – argon – clear (2)	15	•	•	•		0.21	0.48	61	0.28	3.57	0.243	4.12
	366 – argon – clear, grille	14	•	•	•		0.19	0.43	61	0.28	3.57	0.243	4.12
	366 – argon/krypton – clear (2)	15	•	•	•		0.21	0.48	61	0.28	3.57	0.243	4.12
	366 – argon/krypton – clear, grille	14	•	•	•		0.19	0.43	61	0.28	3.57	0.243	4.12

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Double Slider Tilt #1272 CAN/CSA A440-00 Evaluation Report # 3008057-5 Air - A2 Water -B2 Structural - C5 Forced Entry - F10	TRIPLE LITE										
	Clear – argon – clear – argon – LOF (5)	28	●	●	●		0.48	0.51	60	0.30	3.33
	Clear – argon – LOF – argon – LOF (3&5)	32	●	●	●	●	0.45	0.47	63	0.26	3.85
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	30	●	●	●	●	0.48	0.51	61	0.29	3.45
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	32	●	●	●	●	0.45	0.47	64	0.26	3.85
	Clear – krypton – clear – krypton – LOF (5)	35	●	●	●	●	0.48	0.51	64	0.25	4.00
	Clear – krypton – LOF – krypton – LOF (3&5)	37	●	●	●	●	0.45	0.47	68	0.22	4.55
	Solar "e" – argon – clear – argon – clear (2)	19	●	●			0.32	0.37	60	0.30	3.33
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	20	●	●			0.32	0.37	61	0.29	3.45
	Solar "e" – krypton – clear – krypton – clear (2)	25	●	●	●	●	0.32	0.37	64	0.25	4.00
	Bronze – argon – clear – argon – clear	19	●				0.42	0.42	55	0.35	2.86
	Bronze – argon/krypton – clear – argon/krypton – clear	20	●				0.42	0.42	56	0.34	2.94
	Bronze – krypton – clear – krypton – clear	24	●	●			0.42	0.42	59	0.31	3.23
	Bronze – argon – clear – argon – LOF (5)	23	●	●			0.38	0.39	60	0.30	3.33
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	24	●	●			0.38	0.39	61	0.29	3.45
	Bronze – krypton – clear – krypton – LOF (5)	29	●	●	●	●	0.38	0.39	64	0.25	4.00
	Bronze – argon – LOF – argon – LOF (3&5)	26	●	●	●		0.36	0.35	63	0.26	3.85
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	26	●	●	●		0.36	0.35	64	0.26	3.85
	Bronze – krypton – LOF – krypton – LOF (3&5)	31	●	●	●	●	0.36	0.35	68	0.22	4.55
	Grey – argon – clear – argon – clear	18	●				0.40	0.38	55	0.35	2.86
	Grey – argon/krypton – clear – argon/krypton – clear	19	●				0.40	0.38	56	0.34	2.94
	Grey – krypton – clear – krypton – clear	23	●	●			0.40	0.38	59	0.31	3.23
	Grey – argon – clear – argon – LOF (5)	22	●	●			0.37	0.35	60	0.30	3.33
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	23	●	●			0.37	0.35	61	0.29	3.45
	Grey – krypton – clear – krypton – LOF (5)	28	●	●	●	●	0.36	0.35	64	0.25	4.00
	Grey – argon – LOF – argon – LOF (3&5)	25	●	●	●		0.34	0.32	63	0.26	3.85
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	25	●	●	●		0.34	0.32	64	0.26	3.85
	Grey – krypton – LOF – krypton – LOF (3&5)	30	●	●	●	●	0.34	0.32	68	0.22	4.55
	366 – argon – clear – argon – clear (2)	15	●	●	●		0.20	0.44	62	0.28	3.57
	366 – argon/krypton – clear – argon/krypton – clear (2)	16	●	●	●		0.20	0.44	62	0.27	3.70
	366 – krypton – clear – krypton – clear (2)	20	●	●	●	●	0.19	0.44	66	0.23	4.35

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.270	3.70
0.226	4.42
0.262	3.82
0.218	4.59
0.209	4.78
0.163	6.13
0.275	3.64
0.267	3.75
0.214	4.67
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.250	4.00
0.241	4.15
0.180	5.56

ENERGY RATINGS - CANADA

Window Style (Model)	Glass Options										
	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	
		A	B	C	D				(Imperial)	(Imperial)	
Single Hung Tilt #1371 CAN/CSA A440-00 Evaluation Report # 3093743-5 Air - A2/Fixed Water - B4 Structural - C3 Forced Entry - F20	DUAL LITE										
	Clear – air – clear	17					0.60	0.63	48	0.45	2.22
	Clear – air – clear, grille	14					0.54	0.57	48	0.45	2.22
	Clear – air – LOF (3)	29	●	●	●	●	0.56	0.58	54	0.34	2.94
	Clear – air – LOF, grille	25	●	●	●		0.50	0.52	54	0.34	2.94
	Clear – argon – LOF (3)	32	●	●	●	●	0.56	0.58	57	0.31	3.23
	Clear – argon – LOF, grille	29	●	●	●	●	0.50	0.52	57	0.31	3.23
	Clear – argon/krypton – LOF (3)	32	●	●	●	●	0.56	0.58	57	0.31	3.23
	Clear – argon/krypton – LOF, grille	29	●	●	●	●	0.50	0.52	57	0.31	3.23
	Solar "e" – air – clear (2)	18	●				0.37	0.42	53	0.34	2.94
	Solar "e" – air – clear, grille	15	●				0.33	0.38	53	0.34	2.94
	Solar "e" – argon – clear (2)	21	●	●			0.36	0.42	57	0.31	3.23
	Solar "e" – argon – clear, grille	19	●	●			0.33	0.38	57	0.31	3.23
	Solar "e" – argon/krypton – clear (2)	21	●	●			0.36	0.42	57	0.31	3.23
	Solar "e" – argon/krypton – clear, grille	19	●	●			0.33	0.38	57	0.31	3.23
	Bronze – air – clear	11					0.49	0.48	44	0.45	2.22
	Bronze – air – clear, grille	8					0.44	0.43	44	0.45	2.22
	Bronze – argon – clear	13					0.49	0.48	46	0.43	2.33
	Bronze – argon – clear, grille	10					0.44	0.43	46	0.43	2.33
	Bronze – argon/krypton – clear	13					0.49	0.48	46	0.43	2.33
	Bronze – argon/krypton – clear, grille	10					0.44	0.43	46	0.43	2.33
	Bronze – air – LOF (3)	22	●	●			0.45	0.44	54	0.34	2.94
	Bronze – air – LOF, grille	19	●				0.40	0.39	54	0.34	2.94
	Bronze – argon – LOF (3)	26	●	●	●		0.45	0.44	57	0.31	3.23
	Bronze – argon – LOF, grille	23	●	●	●		0.40	0.39	57	0.31	3.23
	Bronze – argon/krypton – LOF (3)	26	●	●	●		0.45	0.44	57	0.31	3.23
	Bronze – argon/krypton – LOF, grille	23	●	●	●		0.40	0.39	57	0.31	3.23
	Grey – air – clear	10					0.47	0.43	44	0.45	2.22
	Grey – air – clear, grille	7					0.42	0.39	44	0.45	2.22
	Grey – argon – clear	12					0.47	0.43	46	0.43	2.33
	Grey – argon – clear, grille	9					0.42	0.39	46	0.43	2.33
	Grey – argon/krypton – clear	12					0.47	0.43	46	0.43	2.33
	Grey – argon/krypton – clear, grille	9					0.42	0.39	46	0.43	2.33
	Grey – air – LOF (3)	21	●	●			0.43	0.40	54	0.34	2.94
	Grey – air – LOF, grille	18	●				0.38	0.36	54	0.34	2.94
	Grey – argon – LOF (3)	25	●	●	●		0.43	0.40	57	0.31	3.23
	Grey – argon – LOF, grille	22	●	●	●		0.38	0.36	57	0.31	3.23
	Grey – argon/krypton – LOF (3)	25	●	●	●		0.43	0.40	57	0.31	3.23
	Grey – argon/krypton – LOF, grille	22	●	●	●		0.38	0.36	57	0.31	3.23
	366 – air – clear (2)	13	●	●			0.22	0.50	56	0.31	3.23
	366 – air – clear, grille	11	●	●			0.20	0.45	56	0.31	3.23
	366 – argon – clear (2)	17	●	●	●		0.21	0.50	60	0.27	3.70
	366 – argon – clear, grille	16	●	●	●		0.19	0.45	60	0.27	3.70
	366 – argon/krypton – clear (2)	17	●	●	●		0.21	0.50	60	0.27	3.70
	366 – argon/krypton – clear, grille	16	●	●	●		0.19	0.45	60	0.27	3.70

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.480	2.08
0.480	2.08
0.335	2.99
0.335	2.99
0.294	3.40
0.294	3.40
0.294	3.40
0.294	3.40
0.337	2.97
0.337	2.97
0.297	3.37
0.297	3.37
0.297	3.37
0.480	2.08
0.480	2.08
0.455	2.20
0.455	2.20
0.455	2.20
0.455	2.20
0.335	2.99
0.335	2.99
0.294	3.40
0.294	3.40
0.294	3.40
0.294	3.40
0.480	2.08
0.480	2.08
0.455	2.20
0.455	2.20
0.455	2.20
0.455	2.20
0.335	2.99
0.335	2.99
0.294	3.40
0.294	3.40
0.294	3.40
0.294	3.40
0.291	3.44
0.291	3.44
0.243	4.12
0.243	4.12
0.243	4.12
0.243	4.12

ENERGY RATINGS - CANADA

Window Style (Model)											
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Single Hung Tilt #1371	TRIPLE LITE										
CAN/CSA A440-00 Evaluation Report # 3093743-5 Air - A2/Fixed Water - B4 Structural - C3 Forced Entry - F20	Clear – argon – clear – argon – LOF (5)	31	●	●	●	●	0.50	0.53	60	0.29	3.45
	Clear – argon – LOF – argon – LOF (3&5)	33	●	●	●	●	0.47	0.49	63	0.26	3.85
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	31	●	●	●	●	0.50	0.53	60	0.29	3.45
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	35	●	●	●	●	0.47	0.49	64	0.25	4.00
	Clear – krypton – clear – krypton – LOF (5)	36	●	●	●	●	0.50	0.53	63	0.25	4.00
	Clear – krypton – LOF – krypton – LOF (3&5)	39	●	●	●	●	0.47	0.49	67	0.21	4.76
	Solar "e" – argon – clear – argon – clear (2)	20	●	●			0.33	0.39	60	0.30	3.33
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	21	●	●			0.33	0.39	60	0.29	3.45
	Solar "e" – krypton – clear – krypton – clear (2)	26	●	●	●	●	0.33	0.39	64	0.25	4.00
	Bronze – argon – clear – argon – clear	20	●				0.44	0.44	55	0.35	2.86
	Bronze – argon/krypton – clear – argon/krypton – clear	22	●	●			0.44	0.44	56	0.34	2.94
	Bronze – krypton – clear – krypton – clear	25	●	●	●		0.43	0.44	58	0.31	3.23
	Bronze – argon – clear – argon – LOF (5)	25	●	●	●		0.40	0.40	60	0.29	3.45
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	25	●	●	●	●	0.40	0.40	60	0.29	3.45
	Bronze – krypton – clear – krypton – LOF (5)	30	●	●	●	●	0.40	0.40	63	0.25	4.00
	Bronze – argon – LOF – argon – LOF (3&5)	27	●	●	●		0.37	0.37	63	0.26	3.85
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	29	●	●	●	●	0.37	0.37	64	0.25	4.00
	Bronze – krypton – LOF – krypton – LOF (3&5)	34	●	●	●	●	0.37	0.37	67	0.21	4.76
	Grey – argon – clear – argon – clear	19	●				0.42	0.40	55	0.35	2.86
	Grey – argon/krypton – clear – argon/krypton – clear	20	●				0.42	0.40	56	0.34	2.94
	Grey – krypton – clear – krypton – clear	24	●	●			0.41	0.40	58	0.31	3.23
	Grey – argon – clear – argon – LOF (5)	24	●	●			0.38	0.36	60	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	24	●	●			0.38	0.36	60	0.29	3.45
	Grey – krypton – clear – krypton – LOF (5)	29	●	●	●	●	0.38	0.36	63	0.25	4.00
	Grey – argon – LOF – argon – LOF (3&5)	27	●	●	●		0.36	0.34	63	0.26	3.85
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	28	●	●	●	●	0.36	0.34	64	0.25	4.00
	Grey – krypton – LOF – krypton – LOF (3&5)	33	●	●	●	●	0.35	0.34	67	0.21	4.76
	366 – argon – clear – argon – clear (2)	15	●	●	●		0.20	0.46	62	0.28	3.57
	366 – argon/krypton – clear – argon/krypton – clear (2)	16	●	●	●		0.20	0.46	62	0.27	3.70
	366 – krypton – clear – krypton – clear (2)	21	●	●	●	●	0.20	0.46	66	0.23	4.35

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.270	3.70
0.226	4.42
0.262	3.82
0.218	4.59
0.209	4.78
0.163	6.13
0.275	3.64
0.267	3.75
0.214	4.67
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.250	4.00
0.241	4.15
0.180	5.56

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	"U" Value (Imperial)	"R" Value (Imperial)
			A	B	C	D				(Imperial)	(Imperial)		
Single Slider Liftout #1372 CAN/CSA A440-00 Evaluation Report # 3093743-1 Air - A2/Fixed Water - B4 Structural - C3 Forced Entry - F20 Evaluation Report # 3093743-2 (additional reinforcement-top rail) Air - A2/Fixed Water - B4 Structural - C5 Forced Entry - F20	DUAL LITE												
	Clear – air – clear	17					0.60	0.63	48	0.45	2.22	0.480	2.08
	Clear – air – clear, grille	13					0.54	0.57	48	0.45	2.22	0.480	2.08
	Clear – air – LOF (3)	29	●	●	●	●	0.56	0.58	54	0.34	2.94	0.335	2.99
	Clear – air – LOF, grille	25	●	●	●		0.50	0.52	54	0.34	2.94	0.335	2.99
	Clear – argon – LOF (3)	33	●	●	●	●	0.56	0.58	57	0.31	3.23	0.294	3.40
	Clear – argon – LOF, grille	29	●	●	●	●	0.50	0.52	57	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF (3)	33	●	●	●	●	0.56	0.58	57	0.31	3.23	0.294	3.40
	Clear – argon/krypton – LOF, grille	29	●	●	●	●	0.50	0.52	57	0.31	3.23	0.294	3.40
	Solar "e" – air – clear (2)	18	●				0.37	0.42	54	0.34	2.94	0.337	2.97
	Solar "e" – air – clear, grille	16	●				0.33	0.38	54	0.34	2.94	0.337	2.97
	Solar "e" – argon – clear (2)	21	●	●			0.36	0.42	57	0.31	3.23	0.297	3.37
	Solar "e" – argon – clear, grille	19	●	●			0.33	0.38	57	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear (2)	21	●	●			0.36	0.42	57	0.31	3.23	0.297	3.37
	Solar "e" – argon/krypton – clear, grille	19	●	●			0.32	0.38	57	0.31	3.23	0.297	3.37
	Bronze – air – clear	11					0.49	0.48	44	0.45	2.22	0.480	2.08
	Bronze – air – clear, grille	8					0.44	0.43	44	0.45	2.22	0.480	2.08
	Bronze – argon – clear	14					0.49	0.48	46	0.43	2.33	0.455	2.20
	Bronze – argon – clear, grille	11					0.44	0.43	46	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear	14					0.49	0.48	46	0.43	2.33	0.455	2.20
	Bronze – argon/krypton – clear, grille	11					0.44	0.43	46	0.43	2.33	0.455	2.20
	Bronze – air – LOF (3)	22	●	●			0.45	0.44	54	0.34	2.94	0.335	2.99
	Bronze – air – LOF, grille	20	●				0.40	0.39	54	0.34	2.94	0.335	2.99
	Bronze – argon – LOF (3)	26	●	●	●		0.45	0.44	57	0.31	3.23	0.294	3.40
	Bronze – argon – LOF, grille	23	●	●			0.40	0.39	57	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF (3)	26	●	●	●		0.45	0.44	57	0.31	3.23	0.294	3.40
	Bronze – argon/krypton – LOF, grille	23	●	●	●		0.40	0.39	57	0.31	3.23	0.294	3.40
	Grey – air – clear	10					0.47	0.43	44	0.45	2.22	0.480	2.08
	Grey – air – clear, grille	7					0.42	0.39	44	0.45	2.22	0.480	2.08
	Grey – argon – clear	12					0.47	0.43	46	0.43	2.33	0.455	2.20
	Grey – argon – clear, grille	10					0.42	0.39	46	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear	12					0.47	0.43	46	0.43	2.33	0.455	2.20
	Grey – argon/krypton – clear, grille	10					0.42	0.39	46	0.43	2.33	0.455	2.20
	Grey – air – LOF (3)	21	●	●			0.43	0.40	54	0.34	2.94	0.335	2.99
	Grey – air – LOF, grille	18	●				0.38	0.36	54	0.34	2.94	0.335	2.99
	Grey – argon – LOF (3)	25	●	●	●		0.43	0.40	57	0.31	3.23	0.294	3.40
	Grey – argon – LOF, grille	22	●	●			0.38	0.36	57	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF (3)	25	●	●	●		0.43	0.40	57	0.31	3.23	0.294	3.40
	Grey – argon/krypton – LOF, grille	22	●	●	●		0.38	0.36	57	0.31	3.23	0.294	3.40
	366 – air – clear (2)	13	●	●			0.22	0.50	57	0.31	3.23	0.291	3.44
	366 – air – clear, grille	12	●	●			0.20	0.45	57	0.31	3.23	0.291	3.44
	366 – argon – clear (2)	17	●	●	●		0.21	0.50	60	0.27	3.70	0.243	4.12
	366 – argon – clear, grille	16	●	●	●		0.19	0.45	60	0.27	3.70	0.243	4.12
	366 – argon/krypton – clear (2)	17	●	●	●		0.21	0.50	60	0.27	3.70	0.243	4.12
	366 – argon/krypton – clear, grille	16	●	●	●		0.19	0.45	60	0.27	3.70	0.243	4.12

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Single Slider Liftout #1372 CAN/CSA A440-00 Evaluation Report # 3093743-1 Air - A2/Fixed Water - B4 Structural - C3 Forced Entry - F20 Evaluation Report # 3093743-2 (additional reinforcement-top rail) Air - A2/Fixed Water - B4 Structural - C5 Forced Entry - F20	TRIPLE LITE										
	Clear – argon – clear – argon – LOF (5)	32	●	●	●	●	0.50	0.53	59	0.29	3.45
	Clear – argon – LOF – argon – LOF (3&5)	34	●	●	●	●	0.47	0.49	61	0.26	3.85
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	32	●	●	●	●	0.50	0.53	59	0.29	3.45
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	34	●	●	●	●	0.47	0.49	62	0.26	3.85
	Clear – krypton – clear – krypton – LOF (5)	37	●	●	●	●	0.50	0.53	63	0.25	4.00
	Clear – krypton – LOF – krypton – LOF (3&5)	39	●	●	●	●	0.47	0.49	65	0.22	4.55
	Solar "e" – argon – clear – argon – clear (2)	21	●	●			0.33	0.39	60	0.30	3.33
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	22	●	●			0.33	0.39	60	0.29	3.45
	Solar "e" – krypton – clear – krypton – clear (2)	27	●	●	●	●	0.33	0.39	64	0.25	4.00
	Bronze – argon – clear – argon – clear	22	●	●			0.44	0.44	55	0.34	2.94
	Bronze – argon/krypton – clear – argon/krypton – clear	22	●	●			0.44	0.44	56	0.34	2.94
	Bronze – krypton – clear – krypton – clear	25	●	●	●		0.43	0.44	59	0.31	3.23
	Bronze – argon – clear – argon – LOF (5)	26	●	●	●		0.40	0.40	59	0.29	3.45
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	26	●	●	●		0.40	0.40	59	0.29	3.45
	Bronze – krypton – clear – krypton – LOF (5)	31	●	●	●	●	0.40	0.40	63	0.25	4.00
	Bronze – argon – LOF – argon – LOF (3&5)	28	●	●	●		0.37	0.37	61	0.26	3.85
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	28	●	●	●		0.37	0.37	62	0.26	3.85
	Bronze – krypton – LOF – krypton – LOF (3&5)	33	●	●	●	●	0.37	0.37	65	0.22	4.55
	Grey – argon – clear – argon – clear	21	●	●			0.42	0.40	55	0.34	2.94
	Grey – argon/krypton – clear – argon/krypton – clear	21	●	●			0.42	0.40	56	0.34	2.94
	Grey – krypton – clear – krypton – clear	24	●	●			0.41	0.40	59	0.31	3.23
	Grey – argon – clear – argon – LOF (5)	25	●	●	●		0.38	0.36	59	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	25	●	●	●		0.38	0.36	59	0.29	3.45
	Grey – krypton – clear – krypton – LOF (5)	30	●	●	●	●	0.38	0.36	63	0.25	4.00
	Grey – argon – LOF – argon – LOF (3&5)	27	●	●	●		0.36	0.34	61	0.26	3.85
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	27	●	●	●		0.36	0.34	62	0.26	3.85
	Grey – krypton – LOF – krypton – LOF (3&5)	32	●	●	●	●	0.35	0.34	65	0.22	4.55
	366 – argon – clear – argon – clear (2)	15	●	●	●		0.20	0.46	61	0.28	3.57
	366 – argon/krypton – clear – argon/krypton – clear (2)	17	●	●	●		0.20	0.46	61	0.27	3.70
	366 – krypton – clear – krypton – clear (2)	22	●	●	●	●	0.20	0.46	65	0.23	4.35

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.270	3.70
0.226	4.42
0.262	3.82
0.218	4.59
0.209	4.78
0.163	6.13
0.275	3.64
0.267	3.75
0.214	4.67
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.250	4.00
0.241	4.15
0.180	5.56

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Picture #1071 (no sash) CAN/CSA A440-00 Evaluation Report # 3106153-5 Air - (A) Fixed Rating Water - B7 Structural - C5 Forced Entry - N/A	DUAL LITE										
	Clear – air – clear	21					0.67	0.72	46	0.46	2.17
	Clear – air – clear, grille	18					0.61	0.65	46	0.46	2.17
	Clear – air – LOF (3)	34	●	●			0.63	0.66	56	0.34	2.94
	Clear – air – LOF, grille	31	●	●			0.57	0.59	56	0.34	2.94
	Clear – argon – LOF (3)	39	●	●	●	●	0.63	0.66	60	0.30	3.33
	Clear – argon – LOF, grille	36	●	●	●		0.57	0.59	60	0.30	3.33
	Clear – argon/krypton – LOF (3)	39	●	●	●	●	0.63	0.66	60	0.30	3.33
	Clear – argon/krypton – LOF, grille	36	●	●	●		0.57	0.59	60	0.30	3.33
	Solar "e" – air – clear (2)	21	●				0.41	0.48	56	0.34	2.94
	Solar "e" – air – clear, grille	19	●				0.37	0.43	56	0.34	2.94
	Solar "e" – argon – clear (2)	25	●	●			0.41	0.48	59	0.31	3.23
	Solar "e" – argon – clear, grille	23	●	●			0.37	0.43	59	0.31	3.23
	Solar "e" – argon/krypton – clear (2)	25	●	●			0.41	0.48	59	0.31	3.23
	Solar "e" – argon/krypton – clear, grille	23	●	●			0.37	0.43	59	0.31	3.23
	Bronze – air – clear	14					0.55	0.54	46	0.46	2.17
	Bronze – air – clear, grille	12					0.50	0.49	46	0.46	2.17
	Bronze – argon – clear	17					0.55	0.54	48	0.44	2.27
	Bronze – argon – clear, grille	14					0.50	0.49	48	0.44	2.27
	Bronze – argon/krypton – clear	17					0.55	0.54	48	0.44	2.27
	Bronze – argon/krypton – clear, grille	14					0.50	0.49	48	0.44	2.27
	Bronze – air – LOF (3)	27	●				0.51	0.50	56	0.34	2.94
	Bronze – air – LOF, grille	24	●				0.46	0.45	56	0.34	2.94
	Bronze – argon – LOF (3)	32	●	●			0.50	0.50	60	0.30	3.33
	Bronze – argon – LOF, grille	29	●	●			0.46	0.45	60	0.30	3.33
	Bronze – argon/krypton – LOF (3)	32	●	●			0.50	0.50	60	0.30	3.33
	Bronze – argon/krypton – LOF, grille	29	●	●			0.46	0.45	60	0.30	3.33
	Grey – air – clear	13					0.53	0.49	46	0.46	2.17
	Grey – air – clear, grille	10					0.48	0.44	46	0.46	2.17
	Grey – argon – clear	16					0.53	0.49	48	0.44	2.27
	Grey – argon – clear, grille	13					0.48	0.44	48	0.44	2.27
	Grey – argon/krypton – clear	16					0.53	0.49	48	0.44	2.27
	Grey – argon/krypton – clear, grille	13					0.48	0.44	48	0.44	2.27
	Grey – air – LOF (3)	25	●				0.48	0.45	56	0.34	2.94
	Grey – air – LOF, grille	22	●				0.43	0.41	56	0.34	2.94
	Grey – argon – LOF (3)	30	●	●			0.48	0.45	60	0.30	3.33
	Grey – argon – LOF, grille	27	●	●			0.43	0.41	60	0.30	3.33
	Grey – argon/krypton – LOF (3)	30	●	●			0.48	0.45	60	0.30	3.33
	Grey – argon/krypton – LOF, grille	27	●	●			0.43	0.41	60	0.30	3.33
	366 – air – clear (2)	16	●	●			0.24	0.57	59	0.30	3.33
	366 – air – clear, grille	15	●	●			0.22	0.51	59	0.30	3.33
	366 – argon – clear (2)	21	●	●	●		0.24	0.57	63	0.26	3.85
	366 – argon – clear, grille	20	●	●	●		0.22	0.51	63	0.26	3.85
	366 – argon/krypton – clear (2)	21	●	●	●		0.24	0.57	63	0.26	3.85
	366 – argon/krypton – clear, grille	20	●	●	●		0.22	0.51	63	0.26	3.85

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.482	2.07
0.482	2.07
0.341	2.93
0.341	2.93
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.344	2.91
0.344	2.91
0.303	3.30
0.303	3.30
0.303	3.30
0.303	3.30
0.303	3.30
0.482	2.07
0.482	2.07
0.458	2.18
0.458	2.18
0.458	2.18
0.458	2.18
0.458	2.18
0.341	2.93
0.341	2.93
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.482	2.07
0.482	2.07
0.458	2.18
0.458	2.18
0.458	2.18
0.458	2.18
0.341	2.93
0.341	2.93
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.298	3.36
0.298	3.36
0.250	4.00
0.250	4.00
0.250	4.00
0.250	4.00
0.250	4.00

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)	(Imperial)	(Imperial)
Picture #1071 (no sash) CAN/CSA A440-00 Evaluation Report # 3106153-5 Air - (A) Fixed Rating Water - B7 Structural - C5 Forced Entry - N/A	TRIPLE LITE												
	Clear – argon – clear – argon – LOF (5)	45	●	●	●	●	0.56	0.60	68	0.22	4.55	0.211	4.74
	Clear – argon – clear – argon – LOF, grille	42	●	●	●	●	0.51	0.54	68	0.22	4.55	0.211	4.74
	Clear – argon – LOF – argon – LOF (3&5)	48	●	●	●	●	0.53	0.56	74	0.18	5.56	0.165	6.06
	Clear – argon – LOF – argon – LOF, grille	44	●	●	●	●	0.48	0.50	74	0.19	5.26	0.165	6.06
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	45	●	●	●	●	0.56	0.60	69	0.22	4.55	0.207	4.83
	Clear – argon/krypton – clear – argon/krypton – LOF, grille	42	●	●	●	●	0.51	0.54	69	0.22	4.55	0.207	4.83
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	48	●	●	●	●	0.53	0.56	74	0.18	5.56	0.161	6.21
	Clear – argon/krypton – LOF – argon/krypton – LOF, grille	45	●	●	●	●	0.48	0.50	74	0.18	5.56	0.161	6.21
	Clear – krypton – clear – krypton – LOF (5)	47	●	●	●	●	0.56	0.60	71	0.20	5.00	0.190	5.26
	Clear – krypton – clear – krypton – LOF, grille	43	●	●	●	●	0.51	0.54	71	0.21	4.76	0.190	5.26
	Clear – krypton – LOF – krypton – LOF (3&5)	51	●	●	●	●	0.53	0.56	76	0.16	6.25	0.142	7.04
	Clear – krypton – LOF – krypton – LOF, grille	48	●	●	●	●	0.48	0.50	76	0.16	6.25	0.142	7.04
	Solar "e" – argon – clear – argon – clear (2)	33	●	●	●	●	0.37	0.44	68	0.23	4.35	0.218	4.59
	Solar "e" – argon – clear – argon – clear, grille	31	●	●	●	●	0.34	0.39	68	0.23	4.35	0.218	4.59
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	33	●	●	●	●	0.37	0.44	68	0.23	4.35	0.214	4.67
	Solar "e" – argon/krypton – clear – argon/krypton – clear, grille	30	●	●	●	●	0.33	0.39	68	0.23	4.35	0.214	4.67
	Solar "e" – krypton – clear – krypton – clear (2)	35	●	●	●	●	0.37	0.44	70	0.21	4.76	0.200	5.00
	Solar "e" – krypton – clear – krypton – clear, grille	32	●	●	●	●	0.33	0.39	70	0.22	4.55	0.200	5.00
	Bronze – argon – clear – argon – clear	31	●	●			0.49	0.49	62	0.30	3.33	0.295	3.39
	Bronze – argon – clear – argon – clear, grille	28	●	●			0.44	0.44	62	0.30	3.33	0.295	3.39
	Bronze – argon/krypton – clear – argon/krypton – clear	32	●	●			0.49	0.49	62	0.29	3.45	0.292	3.42
	Bronze – argon/krypton – clear – argon/krypton – clear, grille	29	●	●			0.44	0.44	62	0.29	3.45	0.292	3.42
	Bronze – krypton – clear – krypton – clear	33	●	●	●		0.49	0.49	64	0.28	3.57	0.277	3.61
	Bronze – krypton – clear – krypton – clear, grille	31	●	●	●		0.44	0.44	64	0.28	3.57	0.277	3.61
	Bronze – argon – clear – argon – LOF (5)	39	●	●	●	●	0.45	0.45	68	0.22	4.55	0.211	4.74
	Bronze – argon – clear – argon – LOF, grille	36	●	●	●	●	0.41	0.41	68	0.22	4.55	0.211	4.74
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	39	●	●	●	●	0.45	0.45	69	0.22	4.55	0.207	4.83
	Bronze – argon/krypton – clear – argon/krypton – LOF, grille	36	●	●	●	●	0.41	0.41	69	0.22	4.55	0.207	4.83
	Bronze – krypton – clear – krypton – LOF (5)	41	●	●	●	●	0.45	0.45	71	0.20	5.00	0.190	5.26
	Bronze – krypton – clear – krypton – LOF, grille	37	●	●	●	●	0.40	0.41	71	0.21	4.76	0.190	5.26
	Bronze – argon – LOF – argon – LOF (3&5)	42	●	●	●	●	0.42	0.42	74	0.18	5.56	0.165	6.06
	Bronze – argon – LOF – argon – LOF, grille	38	●	●	●	●	0.38	0.38	74	0.19	5.26	0.165	6.06
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	42	●	●	●	●	0.42	0.42	74	0.18	5.56	0.161	6.21
	Bronze – argon/krypton – LOF – argon/krypton – LOF, grille	39	●	●	●	●	0.38	0.38	74	0.18	5.56	0.161	6.21
Bronze – krypton – LOF – krypton – LOF (3&5)	44	●	●	●	●	0.42	0.42	76	0.16	6.25	0.142	7.04	
Bronze – krypton – LOF – krypton – LOF, grille	42	●	●	●	●	0.38	0.38	76	0.16	6.25	0.142	7.04	



ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Picture #1071 (no sash) CAN/CSA A440-00 Evaluation Report # 3106153-5 Air - (A) Fixed Rating Water - B7 Structural - C5 Forced Entry - N/A	TRIPLE LITE										
	Grey – argon – clear – argon – clear	30	●	●			0.47	0.45	62	0.30	3.33
	Grey – argon – clear – argon – clear, grille	27	●	●			0.42	0.40	62	0.30	3.33
	Grey – argon/krypton – clear – argon/krypton – clear	31	●	●			0.47	0.45	62	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – clear, grille	28	●	●			0.42	0.40	62	0.29	3.45
	Grey – krypton – clear – krypton – clear	32	●	●	●		0.47	0.45	64	0.28	3.57
	Grey – krypton – clear – krypton – clear, grille	29	●	●	●		0.42	0.40	64	0.28	3.57
	Grey – argon – clear – argon – LOF (5)	37	●	●	●	●	0.43	0.41	68	0.22	4.55
	Grey – argon – clear – argon – LOF, grille	35	●	●	●	●	0.39	0.37	68	0.22	4.55
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	37	●	●	●	●	0.43	0.41	69	0.22	4.55
	Grey – argon/krypton – clear – argon/krypton – LOF, grille	35	●	●	●	●	0.38	0.37	69	0.22	4.55
	Grey – krypton – clear – krypton – LOF (5)	39	●	●	●	●	0.42	0.41	71	0.20	5.00
	Grey – krypton – clear – krypton – LOF, grille	36	●	●	●	●	0.38	0.37	71	0.21	4.76
	Grey – argon – LOF – argon – LOF (3&5)	41	●	●	●	●	0.40	0.38	74	0.18	5.56
	Grey – argon – LOF – argon – LOF, grille	37	●	●	●	●	0.36	0.34	74	0.19	5.26
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	41	●	●	●	●	0.40	0.38	74	0.18	5.56
	Grey – argon/krypton – LOF – argon/krypton – LOF, grille	38	●	●	●	●	0.36	0.34	74	0.18	5.56
	Grey – krypton – LOF – krypton – LOF (3&5)	43	●	●	●	●	0.40	0.38	76	0.16	6.25
	Grey – krypton – LOF – krypton – LOF, grille	41	●	●	●	●	0.36	0.34	76	0.16	6.25
	366 – argon – clear – argon – clear (2)	28	●	●	●	●	0.22	0.52	71	0.20	5.00
	366 – argon – clear – argon – clear, grille	25	●	●	●	●	0.20	0.46	71	0.21	4.76
	366 – argon – clear – argon – 366, grille	32	●	●	●	●	0.19	0.37	78	0.15	6.67
	366 – argon/krypton – clear – argon/krypton – clear (2)	28	●	●	●	●	0.22	0.52	71	0.20	5.00
	366 – argon/krypton – clear – argon/krypton – clear, grille	27	●	●	●	●	0.20	0.46	71	0.20	5.00
	366 – argon/krypton – clear – argon/krypton – 366, grille	32	●	●	●	●	0.19	0.37	78	0.15	6.67
	366 – krypton – clear – krypton – clear (2)	29	●	●	●	●	0.22	0.52	73	0.19	5.26
	366 – krypton – clear – krypton – clear, grille	28	●	●	●	●	0.20	0.46	73	0.19	5.26
	366 – krypton – clear – krypton – 366, grille	35	●	●	●	●	0.19	0.37	80	0.13	7.69

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)

0.295	3.39
0.295	3.39
0.292	3.42
0.292	3.42
0.277	3.61
0.277	3.61
0.211	4.74
0.211	4.74
0.207	4.83
0.207	4.83
0.190	5.26
0.190	5.26
0.165	6.06
0.165	6.06
0.161	6.21
0.161	6.21
0.142	7.04
0.142	7.04
0.186	5.38
0.186	5.38
0.128	7.81
0.182	5.49
0.182	5.49
0.123	8.13
0.168	5.95
0.168	5.95
0.104	9.62

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										Centre of Glass		
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)	(Imperial)	(Imperial)
Picture #1072 (with sash) Fixed Casement CAN/CSA A440-00 Evaluation Report # 3106153-6 Air - (A) Fixed Rating Water - B7 Structural - C5 Forced Entry - N/A	DUAL LITE												
	Clear – air – clear	20					0.60	0.63	46	0.44	2.27	0.482	2.07
	Clear – air – clear, grille	16					0.54	0.57	46	0.44	2.27	0.482	2.07
	Clear – air – LOF (3)	31	•	•	•	•	0.56	0.58	56	0.33	3.03	0.341	2.93
	Clear – air – LOF, grille	28	•	•	•	•	0.50	0.52	56	0.33	3.03	0.341	2.93
	Clear – argon – LOF (3)	35	•	•	•	•	0.56	0.58	59	0.30	3.33	0.300	3.33
	Clear – argon – LOF, grille	32	•	•	•	•	0.50	0.52	59	0.30	3.33	0.300	3.33
	Clear – argon/krypton – LOF (3)	35	•	•	•	•	0.56	0.58	60	0.30	3.33	0.300	3.33
	Clear – argon/krypton – LOF, grille	32	•	•	•	•	0.50	0.52	60	0.30	3.33	0.300	3.33
	Solar "e" – air – clear (2)	20	•				0.36	0.42	55	0.33	3.03	0.344	2.91
	Solar "e" – air – clear, grille	18	•				0.33	0.38	55	0.33	3.03	0.344	2.91
	Solar "e" – argon – clear (2)	23	•	•			0.36	0.42	59	0.30	3.33	0.303	3.30
	Solar "e" – argon – clear, grille	22	•	•			0.33	0.38	59	0.30	3.33	0.303	3.30
	Solar "e" – argon/krypton – clear (2)	23	•	•			0.36	0.42	59	0.30	3.33	0.303	3.30
	Solar "e" – argon/krypton – clear, grille	22	•	•			0.33	0.38	59	0.30	3.33	0.303	3.30
	Bronze – air – clear	14					0.49	0.48	46	0.44	2.27	0.482	2.07
	Bronze – air – clear, grille	11					0.44	0.43	46	0.44	2.27	0.482	2.07
	Bronze – argon – clear	16					0.49	0.48	47	0.42	2.38	0.459	2.18
	Bronze – argon – clear, grille	13					0.44	0.43	47	0.42	2.38	0.459	2.18
	Bronze – argon/krypton – clear	16					0.49	0.48	48	0.42	2.38	0.459	2.18
	Bronze – argon/krypton – clear, grille	13					0.44	0.43	48	0.42	2.38	0.459	2.18
	Bronze – air – LOF (3)	25	•	•	•		0.45	0.44	56	0.33	3.03	0.341	2.93
	Bronze – air – LOF, grille	22	•	•	•		0.40	0.39	56	0.33	3.03	0.341	2.93
	Bronze – argon – LOF (3)	29	•	•	•	•	0.45	0.44	59	0.30	3.33	0.300	3.33
	Bronze – argon – LOF, grille	26	•	•	•		0.40	0.39	59	0.30	3.33	0.300	3.33
	Bronze – argon/krypton – LOF (3)	29	•	•	•	•	0.45	0.44	60	0.30	3.33	0.300	3.33
	Bronze – argon/krypton – LOF, grille	26	•	•	•		0.40	0.39	60	0.30	3.33	0.300	3.33
	Grey – air – clear	12					0.47	0.43	46	0.44	2.27	0.482	2.07
	Grey – air – clear, grille	9					0.42	0.39	46	0.44	2.27	0.482	2.07
	Grey – argon – clear	15					0.47	0.43	47	0.42	2.38	0.459	2.18
	Grey – argon – clear, grille	12					0.42	0.39	47	0.42	2.38	0.459	2.18
	Grey – argon/krypton – clear	15					0.47	0.43	48	0.42	2.38	0.459	2.18
	Grey – argon/krypton – clear, grille	12					0.42	0.39	48	0.42	2.38	0.459	2.18
	Grey – air – LOF (3)	24	•	•			0.43	0.40	56	0.33	3.03	0.341	2.93
	Grey – air – LOF, grille	21	•	•			0.38	0.36	56	0.33	3.03	0.341	2.93
	Grey – argon – LOF (3)	27	•	•	•		0.43	0.40	59	0.30	3.33	0.300	3.33
	Grey – argon – LOF, grille	25	•	•	•		0.38	0.36	59	0.30	3.33	0.300	3.33
	Grey – argon/krypton – LOF (3)	27	•	•	•		0.43	0.40	60	0.30	3.33	0.300	3.33
	Grey – argon/krypton – LOF, grille	25	•	•	•		0.38	0.36	60	0.30	3.33	0.300	3.33
	366 – air – clear (2)	15	•	•			0.22	0.50	59	0.30	3.33	0.299	3.34
	366 – air – clear, grille	14	•	•			0.20	0.45	59	0.30	3.33	0.299	3.34
	366 – argon – clear (2)	20	•	•	•		0.21	0.50	63	0.26	3.85	0.250	4.00
	366 – argon – clear, grille	19	•	•	•		0.19	0.45	63	0.26	3.85	0.250	4.00
	366 – argon/krypton – clear (2)	20	•	•	•		0.21	0.50	63	0.26	3.85	0.250	4.00
	366 – argon/krypton – clear, grille	19	•	•	•		0.19	0.45	63	0.26	3.85	0.250	4.00

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensati on Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Picture #1072 (with sash) Fixed Casement CAN/CSA A440-00 Evaluation Report # 3106153-6 Air - (A) Fixed Rating Water - B7 Structural - C5 Forced Entry - N/A	TRIPLE LITE										
	Clear – argon – clear – argon – LOF (5)	40	•	•	•	•	0.50	0.53	68	0.23	4.35
	Clear – argon – clear – argon – LOF, grille	37	•	•	•	•	0.45	0.47	68	0.23	4.35
	Clear – argon – LOF – argon – LOF (3&5)	43	•	•	•	•	0.47	0.49	73	0.19	5.26
	Clear – argon – LOF – argon – LOF, grille	39	•	•	•	•	0.42	0.44	73	0.20	5.00
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	40	•	•	•	•	0.50	0.53	68	0.23	4.35
	Clear – argon/krypton – clear – argon/krypton – LOF, grille	37	•	•	•	•	0.45	0.47	68	0.23	4.35
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	43	•	•	•	•	0.47	0.49	73	0.19	5.26
	Clear – argon/krypton – LOF – argon/krypton – LOF, grille	41	•	•	•	•	0.42	0.44	73	0.19	5.26
	Clear – krypton – clear – krypton – LOF (5)	43	•	•	•	•	0.50	0.53	71	0.21	4.76
	Clear – krypton – clear – krypton – LOF, grille	40	•	•	•	•	0.45	0.47	71	0.21	4.76
	Clear – krypton – LOF – krypton – LOF (3&5)	45	•	•	•	•	0.47	0.49	76	0.18	5.56
	Clear – krypton – LOF – krypton – LOF, grille	42	•	•	•	•	0.43	0.44	76	0.18	5.56
	Solar "e" – argon – clear – argon – clear (2)	30	•	•	•	•	0.33	0.39	67	0.23	4.35
	Solar "e" – argon – clear – argon – clear, grille	27	•	•	•	•	0.30	0.35	67	0.24	4.17
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	30	•	•	•	•	0.33	0.39	68	0.23	4.35
	Solar "e" – argon/krypton – clear – argon/krypton – clear, grille	27	•	•	•	•	0.30	0.35	68	0.24	4.17
	Solar "e" – krypton – clear – krypton – clear (2)	32	•	•	•	•	0.33	0.39	69	0.22	4.55
	Solar "e" – krypton – clear – krypton – clear, grille	29	•	•	•	•	0.29	0.35	69	0.22	4.55
	Bronze – argon – clear – argon – clear	29	•	•	•	•	0.44	0.44	62	0.29	3.45
	Bronze – argon – clear – argon – clear, grille	25	•	•	•	•	0.39	0.39	62	0.30	3.33
	Bronze – argon/krypton – clear – argon/krypton – clear	29	•	•	•	•	0.44	0.44	62	0.29	3.45
	Bronze – argon/krypton – clear – argon/krypton – clear, grille	26	•	•	•	•	0.39	0.39	62	0.29	3.45
	Bronze – krypton – clear – krypton – clear	30	•	•	•	•	0.43	0.44	63	0.28	3.57
	Bronze – krypton – clear – krypton – clear, grille	28	•	•	•	•	0.39	0.39	63	0.28	3.57
	Bronze – argon – clear – argon – LOF (5)	34	•	•	•	•	0.40	0.40	68	0.23	4.35
	Bronze – argon – clear – argon – LOF, grille	32	•	•	•	•	0.36	0.36	68	0.23	4.35
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	34	•	•	•	•	0.40	0.40	68	0.23	4.35
	Bronze – argon/krypton – clear – argon/krypton – LOF, grille	32	•	•	•	•	0.36	0.36	68	0.23	4.35
	Bronze – krypton – clear – krypton – LOF (5)	37	•	•	•	•	0.40	0.40	71	0.21	4.76
	Bronze – krypton – clear – krypton – LOF, grille	35	•	•	•	•	0.36	0.36	71	0.21	4.76
	Bronze – argon – LOF – argon – LOF (3&5)	38	•	•	•	•	0.37	0.37	73	0.19	5.26
	Bronze – argon – LOF – argon – LOF, grille	35	•	•	•	•	0.34	0.33	73	0.20	5.00
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	38	•	•	•	•	0.37	0.37	73	0.19	5.26
	Bronze – argon/krypton – LOF – argon/krypton – LOF, grille	36	•	•	•	•	0.34	0.33	73	0.19	5.26
	Bronze – krypton – LOF – krypton – LOF (3&5)	39	•	•	•	•	0.37	0.37	76	0.18	5.56
	Bronze – krypton – LOF – krypton – LOF, grille	37	•	•	•	•	0.34	0.33	76	0.18	5.56

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.211	4.74
0.211	4.74
0.165	6.06
0.165	6.06
0.207	4.83
0.207	4.83
0.161	6.21
0.161	6.21
0.190	5.26
0.190	5.26
0.142	7.04
0.142	7.04
0.218	4.59
0.218	4.59
0.214	4.67
0.214	4.67
0.200	5.00
0.200	5.00
0.295	3.39
0.295	3.39
0.292	3.42
0.292	3.42
0.277	3.61
0.277	3.61
0.211	4.74
0.211	4.74
0.207	4.83
0.207	4.83
0.190	5.26
0.190	5.26
0.165	6.06
0.165	6.06
0.161	6.21
0.161	6.21
0.142	7.04
0.142	7.04

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Picture #1072 (with sash) Fixed Casement CAN/CSA A440-00 Evaluation Report # 3106153-6 Air - (A) Fixed Rating Water - B7 Structural - C5 Forced Entry - N/A	TRIPLE LITE										
	Grey – argon – clear – argon – clear	28	•	•	•		0.42	0.40	62	0.29	3.45
	Grey – argon – clear – argon – clear, grille	24	•	•			0.37	0.35	62	0.30	3.33
	Grey – argon/krypton – clear – argon/krypton – clear	28	•	•	•		0.42	0.40	62	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – clear, grille	25	•	•	•		0.37	0.35	62	0.29	3.45
	Grey – krypton – clear – krypton – clear	29	•	•	•	•	0.41	0.40	63	0.28	3.57
	Grey – krypton – clear – krypton – clear, grille	27	•	•	•		0.37	0.35	63	0.28	3.57
	Grey – argon – clear – argon – LOF (5)	33	•	•	•	•	0.38	0.36	68	0.23	4.35
	Grey – argon – clear – argon – LOF, grille	31	•	•	•	•	0.34	0.32	68	0.23	4.35
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	33	•	•	•	•	0.38	0.36	68	0.23	4.35
	Grey – argon/krypton – clear – argon/krypton – LOF, grille	31	•	•	•	•	0.34	0.32	68	0.23	4.35
	Grey – krypton – clear – krypton – LOF (5)	36	•	•	•	•	0.38	0.36	71	0.21	4.76
	Grey – krypton – clear – krypton – LOF, grille	33	•	•	•	•	0.34	0.32	71	0.21	4.76
	Grey – argon – LOF – argon – LOF (3&5)	37	•	•	•	•	0.35	0.34	73	0.19	5.26
	Grey – argon – LOF – argon – LOF, grille	34	•	•	•	•	0.32	0.30	73	0.20	5.00
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	37	•	•	•	•	0.35	0.34	73	0.19	5.26
	Grey – argon/krypton – LOF – argon/krypton – LOF, grille	35	•	•	•	•	0.32	0.30	73	0.19	5.26
	Grey – krypton – LOF – krypton – LOF (3&5)	38	•	•	•	•	0.35	0.34	76	0.18	5.56
	Grey – krypton – LOF – krypton – LOF, grille	36	•	•	•	•	0.32	0.30	76	0.18	5.56
	366 – argon – clear – argon – clear (2)	25	•	•	•	•	0.20	0.46	70	0.21	4.76
	366 – argon – clear – argon – clear, grille	23	•	•	•	•	0.18	0.41	70	0.22	4.55
	366 – argon – clear – argon – 366, grille	29	•	•	•	•	0.17	0.32	77	0.17	5.88
	366 – argon/krypton – clear – argon/krypton – clear (2)	25	•	•	•	•	0.20	0.46	70	0.21	4.76
	366 – argon/krypton – clear – argon/krypton – clear, grille	24	•	•	•	•	0.18	0.41	70	0.21	4.76
	366 – argon/krypton – clear – argon/krypton – 366, grille	30	•	•	•	•	0.17	0.32	77	0.16	6.25
	366 – krypton – clear – krypton – clear (2)	27	•	•	•	•	0.20	0.46	72	0.20	5.00
	366 – krypton – clear – krypton – clear, grille	25	•	•	•	•	0.18	0.41	72	0.20	5.00
	366 – krypton – clear – krypton – 366, grille	31	•	•	•	•	0.17	0.32	78	0.15	6.67

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)

0.295	3.39
0.295	3.39
0.292	3.42
0.292	3.42
0.277	3.61
0.277	3.61
0.211	4.74
0.211	4.74
0.207	4.83
0.207	4.83
0.190	5.26
0.190	5.26
0.165	6.06
0.165	6.06
0.161	6.21
0.161	6.21
0.142	7.04
0.142	7.04
0.186	5.38
0.186	5.38
0.128	7.81
0.182	5.49
0.182	5.49
0.123	8.13
0.168	5.95
0.168	5.95
0.104	9.62

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
3-Lite Single Slider Liftout #1374 CAN/CSA A440-00 Evaluation Report # 3186469TOR-002C 3Lite SLO Air - A3/Fixed Water - B3 Structural - C3 Forced Entry - F20	DUAL LITE										
	Clear – air – clear	18					0.60	0.63	48	0.45	2.22
	Clear – air – clear, grille	15					0.54	0.57	48	0.45	2.22
	Clear – air – LOF (3)	30	•	•	•	•	0.56	0.58	54	0.34	2.94
	Clear – air – LOF, grille	26	•	•	•		0.50	0.52	54	0.34	2.94
	Clear – argon – LOF (3)	33	•	•	•	•	0.56	0.58	57	0.31	3.23
	Clear – argon – LOF, grille	30	•	•	•	•	0.50	0.52	57	0.31	3.23
	Clear – argon/krypton – LOF (3)	33	•	•	•	•	0.56	0.58	57	0.31	3.23
	Clear – argon/krypton – LOF, grille	30	•	•	•	•	0.50	0.52	57	0.31	3.23
	Solar "e" – air – clear (2)	19	•				0.37	0.42	54	0.34	2.94
	Solar "e" – air – clear, grille	16	•				0.33	0.38	54	0.34	2.94
	Solar "e" – argon – clear (2)	22	•	•			0.36	0.42	57	0.31	3.23
	Solar "e" – argon – clear, grille	20	•	•			0.33	0.38	57	0.31	3.23
	Solar "e" – argon/krypton – clear (2)	22	•	•			0.36	0.42	57	0.31	3.23
	Solar "e" – argon/krypton – clear, grille	19	•	•			0.32	0.38	57	0.31	3.23
	Bronze – air – clear	12					0.49	0.48	44	0.45	2.22
	Bronze – air – clear, grille	9					0.44	0.43	44	0.45	2.22
	Bronze – argon – clear	14					0.49	0.48	46	0.43	2.33
	Bronze – argon – clear, grille	11					0.44	0.43	46	0.43	2.33
	Bronze – argon/krypton – clear	14					0.49	0.48	46	0.43	2.33
	Bronze – argon/krypton – clear, grille	11					0.44	0.43	46	0.43	2.33
	Bronze – air – LOF (3)	23	•	•			0.45	0.44	54	0.34	2.94
	Bronze – air – LOF, grille	20	•				0.40	0.39	54	0.34	2.94
	Bronze – argon – LOF (3)	27	•	•	•		0.45	0.44	57	0.31	3.23
	Bronze – argon – LOF, grille	24	•	•			0.40	0.39	57	0.31	3.23
	Bronze – argon/krypton – LOF (3)	27	•	•	•		0.45	0.44	57	0.31	3.23
	Bronze – argon/krypton – LOF, grille	24	•	•			0.40	0.39	57	0.31	3.23
	Grey – air – clear	11					0.47	0.43	44	0.45	2.22
	Grey – air – clear, grille	8					0.42	0.39	44	0.45	2.22
	Grey – argon – clear	13					0.47	0.43	46	0.43	2.33
	Grey – argon – clear, grille	10					0.42	0.39	46	0.43	2.33
	Grey – argon/krypton – clear	13					0.47	0.43	46	0.43	2.33
	Grey – argon/krypton – clear, grille	10					0.42	0.39	46	0.43	2.33
	Grey – air – LOF (3)	22	•	•			0.43	0.40	54	0.34	2.94
	Grey – air – LOF, grille	19	•				0.38	0.36	54	0.34	2.94
	Grey – argon – LOF (3)	26	•	•	•		0.43	0.40	57	0.31	3.23
	Grey – argon – LOF, grille	23	•	•			0.38	0.36	57	0.31	3.23
	Grey – argon/krypton – LOF (3)	26	•	•	•		0.43	0.40	57	0.31	3.23
	Grey – argon/krypton – LOF, grille	23	•	•			0.38	0.36	57	0.31	3.23
	366 – air – clear (2)	14	•	•			0.22	0.50	57	0.31	3.23
	366 – air – clear, grille	12	•	•			0.20	0.45	57	0.31	3.23
	366 – argon – clear (2)	18	•	•	•		0.21	0.50	60	0.27	3.70
	366 – argon – clear, grille	17	•	•	•		0.19	0.45	60	0.27	3.70
	366 – argon/krypton – clear (2)	18	•	•	•		0.21	0.50	60	0.27	3.70
	366 – argon/krypton – clear, grille	17	•	•	•		0.19	0.45	60	0.27	3.70

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.480	2.08
0.480	2.08
0.335	2.99
0.335	2.99
0.294	3.40
0.294	3.40
0.294	3.40
0.294	3.40
0.338	2.96
0.338	2.96
0.297	3.37
0.297	3.37
0.297	3.37
0.297	3.37
0.480	2.08
0.480	2.08
0.455	2.20
0.455	2.20
0.455	2.20
0.455	2.20
0.335	2.99
0.335	2.99
0.294	3.40
0.294	3.40
0.294	3.40
0.480	2.08
0.480	2.08
0.455	2.20
0.455	2.20
0.455	2.20
0.455	2.20
0.335	2.99
0.335	2.99
0.294	3.40
0.294	3.40
0.294	3.40
0.291	3.44
0.291	3.44
0.243	4.12
0.243	4.12
0.243	4.12
0.243	4.12

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER)										
	Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
A			B	C	D	(Imperial)				(Imperial)	
3-Lite Single Slider Liftout #1374 CAN/CSA A440-00 Evaluation Report # 3186469TOR-002C 3Lite SLO Air - A3/Fixed Water - B3 Structural - C3 Forced Entry - F20	TRIPLE LITE										
	Clear – argon – clear – argon – LOF (5)	32	●	●	●	●	0.50	0.53	59	0.29	3.45
	Clear – argon – LOF – argon – LOF (3&5)	34	●	●	●	●	0.47	0.49	61	0.26	3.85
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	32	●	●	●	●	0.50	0.53	59	0.29	3.45
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	34	●	●	●	●	0.47	0.49	62	0.26	3.85
	Clear – krypton – clear – krypton – LOF (5)	37	●	●	●	●	0.50	0.53	63	0.25	4.00
	Clear – krypton – LOF – krypton – LOF (3&5)	39	●	●	●	●	0.47	0.49	65	0.22	4.55
	Solar "e" – argon – clear – argon – clear (2)	21	●	●			0.33	0.39	60	0.30	3.33
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	22	●	●			0.33	0.39	60	0.29	3.45
	Solar "e" – krypton – clear – krypton – clear (2)	27	●	●	●	●	0.33	0.39	64	0.25	4.00
	Bronze – argon – clear – argon – clear	23	●	●			0.44	0.44	55	0.34	2.94
	Bronze – argon/krypton – clear – argon/krypton – clear	23	●	●			0.44	0.44	56	0.34	2.94
	Bronze – krypton – clear – krypton – clear	26	●	●	●		0.43	0.44	59	0.31	3.23
	Bronze – argon – clear – argon – LOF (5)	27	●	●	●		0.40	0.40	59	0.29	3.45
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	27	●	●	●		0.40	0.40	59	0.29	3.45
	Bronze – krypton – clear – krypton – LOF (5)	31	●	●	●	●	0.40	0.40	63	0.25	4.00
	Bronze – argon – LOF – argon – LOF (3&5)	28	●	●	●		0.37	0.37	61	0.26	3.85
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	28	●	●	●		0.37	0.37	62	0.26	3.85
	Bronze – krypton – LOF – krypton – LOF (3&5)	33	●	●	●	●	0.37	0.37	65	0.22	4.55
	Grey – argon – clear – argon – clear	21	●	●			0.42	0.40	55	0.34	2.94
	Grey – argon/krypton – clear – argon/krypton – clear	21	●	●			0.42	0.40	56	0.34	2.94
	Grey – krypton – clear – krypton – clear	25	●	●	●		0.41	0.40	59	0.31	3.23
	Grey – argon – clear – argon – LOF (5)	25	●	●	●		0.38	0.36	59	0.29	3.45
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	25	●	●	●		0.38	0.36	59	0.29	3.45
	Grey – krypton – clear – krypton – LOF (5)	30	●	●	●	●	0.38	0.36	63	0.25	4.00
	Grey – argon – LOF – argon – LOF (3&5)	28	●	●	●		0.36	0.34	61	0.26	3.85
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	28	●	●	●		0.36	0.34	62	0.26	3.85
	Grey – krypton – LOF – krypton – LOF (3&5)	32	●	●	●	●	0.35	0.34	65	0.22	4.55
	366 – argon – clear – argon – clear (2)	16	●	●	●		0.20	0.46	61	0.28	3.57
	366 – argon/krypton – clear – argon/krypton – clear (2)	17	●	●	●		0.20	0.46	61	0.27	3.70
	366 – krypton – clear – krypton – clear (2)	22	●	●	●	●	0.20	0.46	65	0.23	4.35

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.270	3.70
0.226	4.42
0.262	3.82
0.218	4.59
0.209	4.78
0.163	6.13
0.275	3.64
0.267	3.75
0.214	4.67
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.250	4.00
0.241	4.15
0.180	5.56

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Patio Door Series #3300 Model 3320 / 3325 CAN/CGSB 82.1-M89 Evaluation Report # 3060325-1 Air - A3 Water - B3 Structural - C3 Forced Entry - F2	DUAL LITE										
	Clear – air – clear	17					0.59	0.62	45	0.46	2.17
	Clear – air – clear, grille	13					0.52	0.54	45	0.46	2.17
	Clear – air – LOF (3)	28	●	●	●		0.55	0.57	55	0.35	2.86
	Clear – air – LOF, grille	24	●	●			0.48	0.50	55	0.35	2.86
	Clear – argon – LOF (3)	32	●	●	●	●	0.55	0.57	58	0.32	3.13
	Clear – argon – LOF, grille	28	●	●	●		0.49	0.50	58	0.32	3.13
	Clear – argon/krypton – LOF (3)	32	●	●	●	●	0.55	0.57	58	0.32	3.13
	Clear – argon/krypton – LOF, grille	28	●	●	●		0.49	0.50	58	0.32	3.13
	Solar "e" – air – clear (2)	16					0.36	0.42	54	0.36	2.78
	Solar "e" – air – clear, grille	14					0.32	0.36	54	0.36	2.78
	Solar "e" – argon – clear (2)	19	●				0.35	0.42	57	0.33	3.03
	Solar "e" – argon – clear, grille	17	●				0.31	0.36	57	0.33	3.03
	Solar "e" – argon/krypton – clear (2)	19	●				0.35	0.42	57	0.33	3.03
	Solar "e" – argon/krypton – clear, grille	17	●				0.31	0.36	57	0.33	3.03
	Bronze – air – clear	7					0.43	0.41	45	0.46	2.17
	Bronze – air – clear, grille	5					0.38	0.36	45	0.46	2.17
	Bronze – argon – clear	10					0.43	0.41	47	0.44	2.27
	Bronze – argon – clear, grille	7					0.38	0.36	47	0.44	2.27
	Bronze – argon/krypton – clear	10					0.43	0.41	47	0.44	2.27
	Bronze – argon/krypton – clear, grille	7					0.38	0.36	47	0.44	2.27
	Bronze – air – LOF (3)	19	●				0.39	0.38	54	0.35	2.86
	Bronze – air – LOF, grille	16	●				0.34	0.33	54	0.35	2.86
	Bronze – argon – LOF (3)	23	●	●			0.39	0.38	58	0.32	3.13
	Bronze – argon – LOF, grille	20	●	●			0.34	0.33	58	0.32	3.13
	Bronze – argon/krypton – LOF (3)	23	●	●			0.39	0.38	58	0.32	3.13
	Bronze – argon/krypton – LOF, grille	20	●	●			0.34	0.33	58	0.32	3.13
	Grey – air – clear	5					0.39	0.35	45	0.46	2.17
	Grey – air – clear, grille	2					0.34	0.30	45	0.46	2.17
	Grey – argon – clear	8					0.39	0.35	47	0.44	2.27
	Grey – argon – clear, grille	5					0.34	0.30	47	0.44	2.27
	Grey – argon/krypton – clear	8					0.39	0.35	47	0.44	2.27
	Grey – argon/krypton – clear, grille	5					0.34	0.30	47	0.44	2.27
	Grey – air – LOF (3)	16	●				0.34	0.32	54	0.35	2.86
	Grey – air – LOF, grille	14	●				0.30	0.28	54	0.35	2.86
	Grey – argon – LOF (3)	20	●	●			0.34	0.32	58	0.32	3.13
	Grey – argon – LOF, grille	17	●	●			0.30	0.28	58	0.32	3.13
	Grey – argon/krypton – LOF (3)	20	●	●			0.34	0.32	58	0.32	3.13
	Grey – argon/krypton – LOF, grille	17	●	●			0.30	0.28	58	0.32	3.13
	366 – air – clear (2)	12	●	●			0.21	0.49	57	0.32	3.13
	366 – air – clear, grille	11	●	●			0.19	0.43	57	0.32	3.13
	366 – argon – clear (2)	16	●	●			0.21	0.49	60	0.29	3.45
366 – argon – clear, grille	15	●	●			0.19	0.43	60	0.29	3.45	
366 – argon/krypton – clear (2)	16	●	●			0.21	0.49	60	0.29	3.45	
366 – argon/krypton – clear, grille	15	●	●			0.19	0.43	60	0.29	3.45	

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.482	2.07
0.482	2.07
0.341	2.93
0.341	2.93
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.300	3.33
0.344	2.91
0.344	2.91
0.303	3.30
0.303	3.30
0.303	3.30
0.303	3.30
0.303	3.30
0.478	2.09
0.478	2.09
0.455	2.20
0.455	2.20
0.455	2.20
0.455	2.20
0.455	2.20
0.336	2.98
0.336	2.98
0.296	3.38
0.296	3.38
0.295	3.39
0.295	3.39
0.478	2.09
0.478	2.09
0.455	2.20
0.455	2.20
0.455	2.20
0.455	2.20
0.336	2.98
0.336	2.98
0.296	3.38
0.296	3.38
0.295	3.39
0.295	3.39
0.298	3.36
0.298	3.36
0.250	4.00
0.250	4.00
0.250	4.00
0.250	4.00

ENERGY RATINGS - CANADA

Window Style (Model)	Energy Rating (ER) Canadian Energy Star Program										
	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
Patio Door Series #3300 Model 3320 / 3325 CAN/CGSB 82.1-M89 Evaluation Report # 3060325-1 Air - A3 Water - B3 Structural - C3 Forced Entry - F2	TRIPLE LITE										
	Clear – argon – clear – argon – LOF (5)	31	●	●	●	●	0.49	0.52	58	0.30	3.33
	Clear – argon – LOF – argon – LOF (3&5)	33	●	●	●	●	0.46	0.48	59	0.27	3.70
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	31	●	●	●	●	0.49	0.52	59	0.30	3.33
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	33	●	●	●	●	0.46	0.48	59	0.27	3.70
	Clear – krypton – clear – krypton – LOF (5)	36	●	●	●	●	0.49	0.52	59	0.26	3.85
	Clear – krypton – LOF – krypton – LOF (3&5)	38	●	●	●	●	0.46	0.48	59	0.23	4.35
	Solar "e" – argon – clear – argon – clear (2)	20	●	●			0.33	0.38	59	0.31	3.23
	Solar "e" – argon/krypton – clear – argon/krypton – clear (2)	22	●	●			0.33	0.38	59	0.30	3.33
	Solar "e" – krypton – clear – krypton – clear (2)	26	●	●	●		0.32	0.38	59	0.26	3.85
	Bronze – argon – clear – argon – clear	21	●	●			0.43	0.43	55	0.35	2.86
	Bronze – argon/krypton – clear – argon/krypton – clear	21	●	●			0.43	0.43	55	0.35	2.86
	Bronze – krypton – clear – krypton – clear	25	●	●	●		0.43	0.43	58	0.32	3.13
	Bronze – argon – clear – argon – LOF (5)	25	●	●	●		0.39	0.39	58	0.30	3.33
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	25	●	●	●		0.39	0.39	59	0.30	3.33
	Bronze – krypton – clear – krypton – LOF (5)	30	●	●	●	●	0.39	0.39	59	0.26	3.85
	Bronze – argon – LOF – argon – LOF (3&5)	28	●	●	●		0.37	0.36	59	0.27	3.70
	Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5)	28	●	●	●		0.37	0.36	59	0.27	3.70
	Bronze – krypton – LOF – krypton – LOF (3&5)	33	●	●	●	●	0.37	0.36	59	0.23	4.35
	Grey – argon – clear – argon – clear	20	●				0.41	0.39	55	0.35	2.86
	Grey – argon/krypton – clear – argon/krypton – clear	20	●				0.41	0.39	55	0.35	2.86
	Grey – krypton – clear – krypton – clear	24	●	●			0.41	0.39	58	0.32	3.13
	Grey – argon – clear – argon – LOF (5)	24	●	●			0.37	0.36	58	0.30	3.33
	Grey – argon/krypton – clear – argon/krypton – LOF (5)	24	●	●			0.37	0.36	59	0.30	3.33
	Grey – krypton – clear – krypton – LOF (5)	29	●	●	●	●	0.37	0.36	59	0.26	3.85
	Grey – argon – LOF – argon – LOF (3&5)	26	●	●	●		0.35	0.33	59	0.27	3.70
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	26	●	●	●		0.35	0.33	59	0.27	3.70
	Grey – krypton – LOF – krypton – LOF (3&5)	31	●	●	●	●	0.35	0.33	59	0.23	4.35
	366 – argon – clear – argon – clear (2)	15	●	●			0.20	0.45	59	0.29	3.45
	366 – argon/krypton – clear – argon/krypton – clear (2)	17	●	●	●		0.20	0.45	59	0.28	3.57
	366 – krypton – clear – krypton – clear (2)	22	●	●	●	●	0.20	0.45	60	0.24	4.17

Centre of Glass	
"U" Value (Imperial)	"R" Value (Imperial)
0.270	3.70
0.226	4.42
0.262	3.82
0.218	4.59
0.209	4.78
0.163	6.13
0.275	3.64
0.267	3.75
0.214	4.67
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.339	2.95
0.334	2.99
0.294	3.40
0.270	3.70
0.262	3.82
0.209	4.78
0.226	4.42
0.218	4.59
0.163	6.13
0.250	4.00
0.241	4.15
0.180	5.56