

## 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)
<b>Casement #1171</b>  CAN/CSA A440-08 Evaluation Report # AI-03488-G  Air - A3 Water - B7 Structural - C4 Structural - (two snubbers) C5 Forced Entry - F20	<b>DUAL LITE</b>												
	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)	29	•	•	•		0.50	0.51	56	0.32	3.13	0.337	2.97
	Clear – air – LOF, grille	26	•	•			0.46	0.46	56	0.32	3.13	0.337	2.97
	Clear – argon – LOF (3)	33	•	•	•		0.51	0.51	59	0.29	3.45	0.297	3.37
	Clear – argon – LOF, grille	30	•	•	•		0.46	0.46	59	0.29	3.45	0.297	3.37
	Clear – argon/krypton – LOF (3)	33	•	•	•		0.51	0.51	59	0.29	3.45	0.297	3.37
	Clear – argon/krypton – LOF, grille	30	•	•	•		0.46	0.46	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)	22	•				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	19	•				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	22	•				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	22	•				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)	18	•	•			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)	18	•	•			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

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			A	B	C	D				(Imperial)	(Imperial)			
<b>TRIPLE LITE</b>														
<b>Casement #1171</b>  CAN/CSA A440-008 Evaluation Report # AI-03488-G  Air - A3 Water - B7 Structural - C4 Structural - (two snubbers) C5 Forced Entry - F20	Clear – argon – clear – argon – LOF (5)	36	•	•	•	•	0.46	0.47	67	0.24	4.17	0.225	4.44	
	Clear – argon – clear – argon – LOF, grille	34	•	•	•	•	0.42	0.42	67	0.24	4.17	0.225	4.44	
	Clear – argon – LOF – argon – LOF (3&5)	39	•	•	•	•	0.44	0.44	71	0.21	4.76	0.181	5.52	
	Clear – argon – LOF – argon – LOF, grille	36	•	•	•	•	0.40	0.40	71	0.21	4.76	0.181	5.52	
	Clear – argon/krypton – clear – argon/krypton – LOF (5)	36	•	•	•	•	0.46	0.47	67	0.24	4.17	0.220	4.55	
	Clear – argon/krypton – clear – argon/krypton – LOF, grille	34	•	•	•	•	0.42	0.42	67	0.24	4.17	0.220	4.55	
	Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)	39	•	•	•	•	0.44	0.44	71	0.21	4.76	0.175	5.71	
	Clear – argon/krypton – LOF – argon/krypton – LOF, grille	36	•	•	•	•	0.40	0.40	71	0.21	4.76	0.175	5.71	
	Clear – krypton – clear – krypton – LOF (5)	39	•	•	•	•	0.46	0.47	70	0.22	4.55	0.190	5.26	
	Clear – krypton – clear – krypton – LOF, grille	36	•	•	•	•	0.42	0.42	70	0.22	4.55	0.190	5.26	
	Clear – krypton – LOF – krypton – LOF (3&5)	41	•	•	•	•	0.44	0.44	75	0.19	5.26	0.143	6.99	
	Clear – krypton – LOF – krypton – LOF, grille	39	•	•	•	•	0.40	0.40	75	0.19	5.26	0.143	6.99	
	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	27	•	•			0.36	0.36	63	0.27	3.70	0.277	3.61	
	Bronze – krypton – clear – krypton – clear, grille	25	•	•			0.33	0.33	63	0.27	3.70	0.277	3.61	
	Bronze – argon – clear – argon – LOF (5)	29	•	•	•		0.33	0.33	67	0.24	4.17	0.224	4.46	
	Bronze – argon – clear – argon – LOF, grille	27	•	•	•		0.30	0.30	67	0.24	4.17	0.224	4.46	
	Bronze – argon/krypton – clear – argon/krypton – LOF (5)	29	•	•	•		0.33	0.33	67	0.24	4.17	0.218	4.59	
	Bronze – argon/krypton – clear – argon/krypton – LOF, grille	27	•	•	•		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)	34	•	•	•	•	0.31	0.31	75	0.19	5.26	0.141	7.09	
	Bronze – krypton – LOF – krypton – LOF, grille	33	•	•	•	•	0.29	0.28	75	0.19	5.26	0.141	7.09	

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	Glass Options	ER	Energy Star Zone				SHGC	Visible Transmittance	Condensation Resistance	"U" Value	"R" Value
			A	B	C	D				(Imperial)	(Imperial)
<b>Casement #1171</b>  CAN/CSA A440-08 Evaluation Report # AI-03488-G  Air - A3 Water - B7 Structural - C4 Structural - (two snubbers) C5 Forced Entry - F20	<b>TRIPLE LITE</b>										
	Grey – argon – clear – argon – clear	24	●				0.35	0.33	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	24	●				0.35	0.33	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	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)	31	●	●	●		0.32	0.30	70	0.22	4.55
	Grey – krypton – clear – krypton – LOF, grille	29	●	●	●		0.29	0.27	70	0.22	4.55
	Grey – argon – LOF – argon – LOF (3&5)	31	●	●	●	●	0.30	0.28	71	0.21	4.76
	Grey – argon – LOF – argon – LOF, grille	29	●	●	●	●	0.27	0.25	71	0.21	4.76
	Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)	31	●	●	●	●	0.30	0.28	71	0.21	4.76
	Grey – argon/krypton – LOF – argon/krypton – LOF, grille	29	●	●	●	●	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)	22	●	●	●		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/krypton – clear – argon/krypton – clear (2)	22	●	●	●		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 – 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	

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
0.192	5.21
0.192	5.21
0.165	6.06
0.165	6.06