

**Model #4171/5171(H) - Casement Energy Ratings**

Glass Options	Glazing	Gas	Grille	Energy Star Zone(s)		ER	SHGC	VT	CR	U-Value (Metric)	U-Value Imp (Imperial)	R-Value (Imperial)
				Canada	US							
366 (2)	Double			None	NC,SC,S	14	0.18	0.41	60	1.65	0.29	3.45
366 (2)	Double		Y	None	NC,SC,S	13	0.16	0.37	60	1.65	0.29	3.45
366 (2)	Double	Arg/Kry		1	N,NC,SC,S	18	0.18	0.41	64	1.48	0.26	3.85
366 (2)	Double	Arg/Kry	Y	1	N,NC,SC,S	17	0.16	0.37	64	1.48	0.26	3.85
366 (2)	Double	Argon		1	N,NC,SC,S	18	0.18	0.41	63	1.48	0.26	3.85
366 (2)	Double	Argon	Y	1	N,NC,SC,S	17	0.16	0.37	63	1.48	0.26	3.85
Bronze/LOF (3)	Double			None	C	21	0.37	0.37	56	1.82	0.32	3.13
Bronze/LOF (3)	Double		Y	None	C	20	0.34	0.33	56	1.82	0.32	3.13
Bronze-LOF (3)	Double	Arg/Kry		1	N,NC	25	0.37	0.37	60	1.65	0.29	3.45
Bronze-LOF (3)	Double	Arg/Kry	Y	None	NC	23	0.34	0.33	60	1.65	0.29	3.45
Bronze-LOF (3)	Double	Argon		1	N,NC	25	0.37	0.37	60	1.65	0.29	3.45
Bronze-LOF (3)	Double	Argon	Y	None	NC	23	0.34	0.33	60	1.65	0.29	3.45
Grey-LOF (3)	Double			None	C	20	0.35	0.33	56	1.82	0.32	3.13
Grey-LOF (3)	Double		Y	None	C	18	0.32	0.3	56	1.82	0.32	3.13
Grey-LOF (3)	Double	Arg/Kry		None	N,NC	24	0.35	0.33	60	1.65	0.29	3.45
Grey-LOF (3)	Double	Arg/Kry	Y	None	NC	22	0.32	0.3	60	1.65	0.29	3.45
Grey-LOF (3)	Double	Argon		None	NC	24	0.35	0.33	60	1.65	0.29	3.45
Grey-LOF (3)	Double	Argon	Y	None	NC	22	0.32	0.3	60	1.65	0.29	3.45
LOF (3)	Double			1	None	27	0.46	0.49	56	1.82	0.32	3.13
LOF (3)	Double		Y	None	None	24	0.42	0.44	56	1.82	0.32	3.13
LOF (3)	Double	Arg/Kry		1 2	N	31	0.47	0.49	60	1.65	0.29	3.45
LOF (3)	Double	Arg/Kry	Y	1	None	28	0.42	0.44	60	1.65	0.29	3.45
LOF (3)	Double	Argon		1 2	N	31	0.47	0.49	60	1.65	0.29	3.45
LOF (3)	Double	Argon	Y	1	N	28	0.42	0.44	60	1.65	0.29	3.45
LOF-LOF (2&3)	Double	Arg/Kry		1 2	N	33	0.42	0.46	47	1.42	0.25	4.00
LOF-LOF (2&3)	Double	Arg/Kry	Y	1 2	N,NC	31	0.38	0.41	47	1.42	0.25	4.00
LOF-LOF (2&3)	Double	Argon		1 2	N	33	0.42	0.46	47	1.42	0.25	4.00
LOF-LOF (2&3)	Double	Argon	Y	1 2	N,NC	31	0.38	0.41	47	1.42	0.25	4.00
366 (2)	Triple	Arg/Kry		1 2	N,NC,SC,S	23	0.16	0.37	72	1.19	0.21	4.76
366 (2)	Triple	Arg/Kry	Y	1 2	N,NC,SC,S	22	0.15	0.34	72	1.19	0.21	4.76
366 (2)	Triple	Argon		1 2	N,NC,SC,S	23	0.16	0.37	72	1.19	0.21	4.76
366 (2)	Triple	Argon	Y	1 2	N,NC,SC,S	22	0.15	0.34	72	1.19	0.21	4.76
366 (2)	Triple	Krypton		1 2 3	N,NC,SC,S	24	0.16	0.37	73	1.14	0.20	5.00
366 (2)	Triple	Krypton	Y	1 2 3	N,NC,SC,S	24	0.15	0.34	73	1.14	0.20	5.00
Bronze	Triple	Arg/Kry		1	N,NC	26	0.36	0.36	64	1.59	0.28	3.57
Bronze	Triple	Arg/Kry	Y	1	N,NC	23	0.32	0.32	64	1.59	0.28	3.57
Bronze	Triple	Argon		1	N,NC	26	0.36	0.36	64	1.59	0.28	3.57
Bronze	Triple	Argon	Y	1	N,NC	23	0.32	0.32	64	1.59	0.28	3.57
Bronze	Triple	Krypton		1	N,NC	27	0.36	0.36	64	1.54	0.27	3.70
Bronze	Triple	Krypton	Y	1	N,NC	25	0.32	0.32	64	1.54	0.27	3.70
Bronze-LOF (5)	Triple	Arg/Kry		1 2	N,NC	31	0.33	0.33	71	1.25	0.22	4.55
Bronze-LOF (5)	Triple	Arg/Kry	Y	1 2	N,NC,SC	30	0.30	0.3	71	1.25	0.22	4.55
Bronze-LOF (5)	Triple	Argon		1 2	N,NC	30	0.33	0.33	70	1.31	0.23	4.35

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				Canada	US							
Bronze-LOF (5)	Triple	Argon	Y	1 2	N,NC,SC	28	0.30	0.3	70	1.31	0.23	4.35
Bronze-LOF (5)	Triple	Krypton		1 2	N,NC	31	0.33	0.33	72	1.25	0.22	4.55
Bronze-LOF (5)	Triple	Krypton	Y	1 2	N,NC,SC	30	0.30	0.3	72	1.25	0.22	4.55
Bronze-LOF-LOF (3&5)	Triple	Arg/Kry		1 2 3	N,NC	35	0.32	0.31	76	1.08	0.19	5.26
Bronze-LOF-LOF (3&5)	Triple	Arg/Kry	Y	1 2 3	N,NC,SC	33	0.29	0.28	76	1.08	0.19	5.26
Bronze-LOF-LOF (3&5)	Triple	Argon		1 2 3	N,NC	33	0.32	0.31	76	1.14	0.20	5.00
Bronze-LOF-LOF (3&5)	Triple	Argon	Y	1 2 3	N,NC,SC	32	0.29	0.28	76	1.14	0.20	5.00
Bronze-LOF-LOF (3&5)	Triple	Krypton		1 2 3	N,NC	35	0.32	0.31	78	1.08	0.19	5.26
Bronze-LOF-LOF (3&5)	Triple	Krypton	Y	1 2 3	N,NC,SC	33	0.29	0.28	78	1.08	0.19	5.26
Grey	Triple	Arg/Kry		1	N,NC	25	0.34	0.32	64	1.59	0.28	3.57
Grey	Triple	Arg/Kry	Y	1	NC	23	0.31	0.29	64	1.59	0.28	3.57
Grey	Triple	Argon		1	N,NC	25	0.34	0.32	64	1.59	0.28	3.57
Grey	Triple	Argon	Y	1	NC	23	0.31	0.29	64	1.59	0.28	3.57
Grey	Triple	Krypton		1	N,NC	26	0.34	0.32	64	1.54	0.27	3.70
Grey	Triple	Krypton	Y	1	N,NC	24	0.31	0.29	64	1.54	0.27	3.70
Grey-LOF (5)	Triple	Arg/Kry		1 2	N,NC	30	0.31	0.3	71	1.25	0.22	4.55
Grey-LOF (5)	Triple	Arg/Kry	Y	1 2	N,NC,SC	29	0.28	0.27	71	1.25	0.22	4.55
Grey-LOF (5)	Triple	Argon		1 2	N,NC	29	0.31	0.3	70	1.31	0.23	4.35
Grey-LOF (5)	Triple	Argon	Y	1 2	N,NC,SC	27	0.28	0.27	70	1.31	0.23	4.35
Grey-LOF (5)	Triple	Krypton		1 2	N,NC	30	0.31	0.3	72	1.25	0.22	4.55
Grey-LOF (5)	Triple	Krypton	Y	1 2	N,NC,SC	29	0.28	0.27	72	1.25	0.22	4.55
Grey-LOF-LOF (3&5)	Triple	Arg/Kry		1 2 3	N,NC,SC	33	0.30	0.29	76	1.08	0.19	5.26
Grey-LOF-LOF (3&5)	Triple	Arg/Kry	Y	1 2 3	N,NC,SC,S	32	0.27	0.26	76	1.08	0.19	5.26
Grey-LOF-LOF (3&5)	Triple	Argon		1 2 3	N,NC,SC	32	0.30	0.29	76	1.14	0.20	5.00
Grey-LOF-LOF (3&5)	Triple	Argon	Y	1 2 3	N,NC,SC,S	30	0.27	0.26	76	1.14	0.20	5.00
Grey-LOF-LOF (3&5)	Triple	Krypton		1 2 3	N,NC,SC	33	0.30	0.29	78	1.08	0.19	5.26
Grey-LOF-LOF (3&5)	Triple	Krypton	Y	1 2 3	N,NC,SC,S	32	0.27	0.26	78	1.08	0.19	5.26
LOF (5)	Triple	Arg/Kry		1 2 3	N	36	0.41	0.44	71	1.25	0.22	4.55
LOF (5)	Triple	Arg/Kry	Y	1 2 3	N,NC	34	0.37	0.4	71	1.25	0.22	4.55
LOF (5)	Triple	Argon		1 2 3	N	35	0.41	0.44	70	1.31	0.23	4.35
LOF (5)	Triple	Argon	Y	1 2	N,NC	32	0.37	0.4	70	1.31	0.23	4.35
LOF (5)	Triple	Krypton		1 2 3	N	36	0.41	0.44	72	1.25	0.22	4.55
LOF (5)	Triple	Krypton	Y	1 2 3	N,NC	34	0.37	0.4	72	1.25	0.22	4.55
LOF-LOF (3&5)	Triple	Arg/Kry		1 2 3	N,NC	39	0.40	0.42	76	1.08	0.19	5.26
LOF-LOF (3&5)	Triple	Arg/Kry	Y	1 2 3	N,NC	37	0.36	0.38	76	1.08	0.19	5.26
LOF-LOF (3&5)	Triple	Argon		1 2 3	N,NC	38	0.40	0.42	76	1.14	0.20	5.00
LOF-LOF (3&5)	Triple	Argon	Y	1 2 3	N,NC	36	0.36	0.38	76	1.14	0.20	5.00
LOF-LOF (3&5)	Triple	Krypton		1 2 3	N,NC	39	0.40	0.42	78	1.08	0.19	5.26
LOF-LOF (3&5)	Triple	Krypton	Y	1 2 3	N,NC	37	0.36	0.38	78	1.08	0.19	5.26

**(SHGC) Solar Heat Gain Coefficient:** The higher the SHGC, the more solar heat the window allows.

**(VT) Visible Transmittance:** The higher the VT, the more daylight is allowed in.

**(CR) Condensation Resistance:** The higher the CR, the less likely condensations is to occur.