



Canada **Greener Homes** Grant



NORTH STAR
WINDOWS & DOORS

| JANUARY 2023



To qualify for the Canada Greener Homes grant, you must purchase **ENERGY STAR** certified products.

ENERGY STAR® - Canada

Windows and Doors may comply for Canada's Energy Star® program based on two compliance paths; either the products U-factor total, or the products Energy Rating (ER).

The ER is based on a product's overall performance based on the following three criteria:

- Solar heat gain
- Heat loss through the frame, spacer, and glass
- Air leakage loss

The higher the ER number, the better the product's thermal performance.

The U-factor and ER criteria for Canada are shown in the two tables below:

U-factor Criteria for Residential Windows & Doors

Product	Maximum U-factor W/m ² K	Maximum U-factor Btu/h-ft ² -F
Windows & Doors	1.22	0.21

Alternate ER Criteria for Residential Windows & Doors

Product	Maximum ER (unitless)
Windows & Doors	34

(the values above were obtained from the NRCAN website on January 1st, 2020)

ENERGY STAR Most Efficient® - Canada

Energy Star Canada created a "Most Efficient" criteria for additional energy savings. To qualify for this criteria, models must have:

- U-factor of 1.05 W/m² (0.18 Btu/h.ft²) or lower, or:
- ER of 40 or higher.

For more detailed information about the ER system and North Star products that qualify for Canada's Energy Star® program, visit the [**ENERGY STAR® website**](#).

1071 – Picture Window (No Sash) Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCan Reference
Clear-LoE	Double	Yes	3	Argon	1.7	0.3	0.6	37	Yes	-	NR5688-40654425-ES5
Clear-LoE	Double	No	3	Argon	1.7	0.3	0.67	41	Yes	Yes	NR5688-40318055-ES5
LoE-LoE	Double	Yes	2&3	Argon	1.59	0.28	0.53	36	Yes	-	NR5688-40654431-ES5
LoE-LoE	Double	Yes	2&4	Argon	1.36	0.24	0.52	40	Yes	Yes	NR5688-40654439-ES5
LoE-LoE	Double	No	2&3	Argon	1.59	0.28	0.59	39	Yes	-	NR5688-40318067-ES5
LoE-LoE	Double	No	2&4	Argon	1.36	0.24	0.58	44	Yes	Yes	NR5688-40318086-ES5
366-Clear-Clear	Triple	No	2	Argon	1.19	0.21	0.23	27	Yes	-	NR5688-39872462-ES5
366-Clear-LoE	Triple	Yes	2 & 5	Argon	1.02	0.18	0.2	29	Yes	Yes	NR5688-40654448-ES5
366-Clear-LoE	Triple	No	2 & 5	Argon	1.02	0.18	0.22	30	Yes	Yes	NR5688-39872456-ES5
Bronze-Clear-LoE	Triple	Yes	5	Argon	1.36	0.24	0.42	34	Yes	-	NR5688-40654443-ES5
Bronze-Clear-LoE	Triple	No	5	Argon	1.36	0.24	0.47	37	Yes	-	NR5688-40318093-ES5
Bronze-LoE-LoE	Triple	Yes	3 & 5	Argon	1.14	0.2	0.4	38	Yes	-	NR5688-40654456-ES5
Bronze-LoE-LoE	Triple	No	3 & 5	Argon	1.14	0.2	0.44	40	Yes	Yes	NR5688-39872473-ES5
Clear-Clear-LoE	Triple	Yes	5	Argon	1.36	0.24	0.55	42	Yes	Yes	NR5688-40654442-ES5
Clear-Clear-LoE	Triple	No	5	Argon	1.36	0.24	0.61	45	Yes	Yes	NR5688-40318092-ES5
Clear-LoE-LoE	Triple	Yes	3&5	Argon	1.14	0.2	0.52	45	Yes	Yes	NR5688-40654455-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.14	0.2	0.58	48	Yes	Yes	NR5688-39872472-ES5
Grey-Clear-LoE	Triple	No	5	Argon	1.36	0.24	0.43	35	Yes	-	NR5688-40318094-ES5
Grey-LoE-LoE	Triple	Yes	3 & 5	Argon	1.14	0.2	0.36	36	Yes	-	NR5688-40654457-ES5
Grey-LoE-LoE	Triple	No	3 & 5	Argon	1.14	0.2	0.4	38	Yes	-	NR5688-39872474-ES5
LoE-Clear-LoE	Triple	Yes	2&5	Argon	1.14	0.2	0.49	43	Yes	Yes	NR5688-40654464-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.14	0.2	0.54	46	Yes	Yes	NR5688-39872490-ES5

1072 – Picture Window (With Sash) Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCan Reference
Clear(O)-LoE	Double	Yes	3	Argon	1.7	0.3	0.55	34	Yes	-	NR5688-40654560-ES5
Clear-LoE	Double	No	3	Argon	1.7	0.3	0.59	37	Yes	-	NR5688-39873858-ES5
LoE-LoE	Double	Yes	2&4	Argon	1.42	0.25	0.46	35	Yes	-	NR5688-40654567-ES5
LoE-LoE	Double	No	2&3	Argon	1.59	0.28	0.52	35	Yes	-	NR5688-39873868-ES5
LoE-LoE	Double	No	2&4	Argon	1.42	0.25	0.51	38	Yes	-	NR5688-39873877-ES5
366-Clear-LoE	Triple	Yes	2 & 5	Argon	1.08	0.19	0.18	27	Yes	-	NR5688-40654575-ES5
366-Clear-LoE	Triple	No	2 & 5	Argon	1.08	0.19	0.19	27	Yes	-	NR5688-39873895-ES5
Bronze-Clear-LoE	Triple	No	5	Argon	1.36	0.24	0.42	34	Yes	-	NR5688-39873890-ES5
Bronze-LoE-LoE	Triple	Yes	3 & 5	Argon	1.19	0.21	0.35	34	Yes	-	NR5688-40654583-ES5
Bronze-LoE-LoE	Triple	No	3 & 5	Argon	1.14	0.2	0.39	37	Yes	-	NR5688-39873911-ES5
Clear-Clear-LoE	Triple	Yes	5	Argon	1.36	0.24	0.49	38	Yes	-	NR5688-40654573-ES5
Clear-Clear-LoE	Triple	No	5	Argon	1.36	0.24	0.54	41	Yes	Yes	NR5688-39873889-ES5
Clear-LoE-LoE	Triple	Yes	3&5	Argon	1.19	0.21	0.46	40	Yes	Yes	NR5688-40654582-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.14	0.2	0.51	44	Yes	Yes	NR5688-39873910-ES5
Grey-LoE-LoE	Triple	Yes	3 & 5	Argon	1.19	0.21	0.32	32	Yes	-	NR5688-40654584-ES5
Grey-LoE-LoE	Triple	No	3 & 5	Argon	1.14	0.2	0.36	36	Yes	-	NR5688-39873912-ES5
LoE-Clear-LoE	Triple	Yes	2&5	Argon	1.19	0.21	0.43	39	Yes	-	NR5688-40654591-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.14	0.2	0.48	43	Yes	Yes	NR5688-39873928-ES5

1171 – Casement Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCAN Reference
Clear(O)-LoE	Double	No	3	Argon	1.65	0.29	0.52	34	Yes	-	NR5688-40726474-ES5
LoE-LoE	Double	No	2&4	Argon	1.42	0.25	0.44	34	Yes	-	NR5688-40654473-ES5
LoE-LoE	Double	No	2&4	Argon	1.42	0.25	0.44	34	Yes	-	NR5688-40726479-ES5
366-Clear-LoE	Triple	Yes	2 & 5	Argon	1.19	0.21	0.15	22	Yes	-	NR5688-40726497-ES5
366-Clear-LoE	Triple	No	2 & 5	Argon	1.14	0.2	0.17	24	Yes	-	NR5688-40726496-ES5
Clear(O)-LoE-LoE	Triple	Yes	3&5	Argon	1.25	0.22	0.41	36	Yes	-	NR5688-40654484-ES5
Clear(O)-LoE-LoE	Triple	No	3&5	Argon	1.19	0.21	0.45	40	Yes	Yes	NR5688-40654513-ES5
Clear-Clear-LoE	Triple	No	5	Argon	1.36	0.24	0.46	36	Yes	-	NR5688-40726484-ES5
Clear-LoE-LoE	Triple	Yes	3&5	Argon	1.25	0.22	0.4	35	Yes	-	NR5688-40726491-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.25	0.22	0.44	38	Yes	-	NR5688-40726490-ES5
Grey-LoE-LoE	Triple	No	3 & 5	Argon	1.19	0.21	0.3	31	Yes	-	NR5688-40654495-ES5
LoE-Clear-LoE	Triple	Yes	2&5	Argon	1.25	0.22	0.37	34	Yes	-	NR5688-40726493-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.25	0.22	0.41	36	Yes	-	NR5688-40726492-ES5

1173 – Awning Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCAN Reference
Clear(O)-LoE	Double	No	3	Argon	1.65	0.29	0.52	34	Yes	-	NR5688-40726531-ES5
LoE-LoE	Double	No	2&4	Argon	1.42	0.25	0.44	34	Yes	-	NR5688-40726535-ES5
366-Clear-LoE	Triple	Yes	2 & 5	Argon	1.19	0.21	0.15	22	Yes	-	NR5688-40726550-ES5
366-Clear-LoE	Triple	No	2 & 5	Argon	1.14	0.2	0.17	24	Yes	-	NR5688-40726549-ES5
Clear(O)-LoE-LoE	Triple	Yes	3&5	Argon	1.19	0.21	0.41	37	Yes	-	NR5688-40654557-ES5
Clear(O)-LoE-LoE	Triple	No	3&5	Argon	1.19	0.21	0.45	40	Yes	Yes	NR5688-40654556-ES5
Clear-Clear-LoE	Triple	No	5	Argon	1.42	0.25	0.46	35	Yes	-	NR5688-40726537-ES5
Clear-LoE-LoE	Triple	Yes	3&5	Argon	1.25	0.22	0.4	35	Yes	-	NR5688-40726544-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.25	0.22	0.44	38	Yes	-	NR5688-40726543-ES5
Grey-LoE-LoE	Triple	Yes	3 & 5	Argon	1.19	0.21	0.28	30	Yes	-	NR5688-40654537-ES5
Grey-LoE-LoE	Triple	No	3 & 5	Argon	1.19	0.21	0.3	31	Yes	-	NR5688-40654534-ES5
LoE-Clear-LoE	Triple	Yes	2&5	Argon	1.25	0.22	0.37	34	Yes	-	NR5688-40726546-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.25	0.22	0.41	36	Yes	-	NR5688-40726545-ES5

1271 – Double Hung Tilt Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCAN Reference
Clear(O)-LoE	Double	No	3	Argon	1.76	0.31	0.58	34	Yes	-	NR5688-40318053-ES5
LoE-LoE	Double	No	2&4	Argon	1.48	0.26	0.49	35	Yes	-	NR5688-39874011-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.48	0.26	0.48	34	Yes	-	NR5688-39874014-ES5

1272 – Double Slider Tilt Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCAN Reference
Clear(O)-LoE	Double	No	3	Argon	1.76	0.31	0.58	34	Yes	-	NR5688-39873988-ES5
LoE-LoE	Double	No	2&4	Argon	1.53	0.27	0.49	34	Yes	-	NR5688-39873995-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.48	0.26	0.48	34	Yes	-	NR5688-39873999-ES5

1273 – Double Slider Liftout Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCan Reference
Clear(O)-LoE	Double	No	3	Argon	1.76	0.31	0.58	34	Yes	-	NR5688-39874020-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.48	0.26	0.48	34	Yes	-	NR5688-39874029-ES5

1371 – Single Hung Tilt Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ENERGY STAR Most Efficient	NRCan Reference
Clear-LoE	Double	No	3	Argon	1.76	0.31	0.59	34	Yes	-	NR5688-39873961-ES5
LoE-LoE	Double	No	2&4	Argon	1.48	0.26	0.51	36	Yes	-	NR5688-39873973-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.48	0.26	0.5	35	Yes	-	NR5688-39873976-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.48	0.26	0.48	34	Yes	-	NR5688-39873977-ES5

1372 – Single Slider Lift-out Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCan Reference
Clear-LoE	Double	No	3	Argon	1.76	0.31	0.59	35	Yes	-	NR5688-39873934-ES5
LoE-LoE	Double	No	2&4	Argon	1.48	0.26	0.51	36	Yes	-	NR5688-39873948-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.48	0.26	0.5	35	Yes	-	NR5688-39873951-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.48	0.26	0.48	34	Yes	-	NR5688-39873953-ES5

1374 – 3-Lite (End Vent) Single Slider Liftout Window Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCan Reference
Clear(O)-LoE	Double	No	3	Argon	1.76	0.31	0.61	36	Yes	-	NR5688-39873936-ES5
Clear-LoE	Double	No	3	Argon	1.76	0.31	0.59	35	Yes	-	NR5688-39873934-ES5
LoE-LoE	Double	No	2&4	Argon	1.48	0.26	0.51	36	Yes	-	NR5688-39873948-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.48	0.26	0.5	35	Yes	-	NR5688-39873951-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.48	0.26	0.48	34	Yes	-	NR5688-39873953-ES5

1377 – Picture Window (Singles Frame) Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCan Reference
Clear(O)-LoE	Double	Yes	3	Argon	1.7	0.3	0.58	36	Yes	-	NR5688-34746898-ES5
Clear(O)-LoE	Double	No	3	Argon	1.7	0.3	0.64	40	Yes	Yes	NR5688-34746897-ES5
Clear-LoE	Double	Yes	3	Argon	1.7	0.3	0.56	35	Yes	-	NR5688-34746900-ES5
Clear-LoE	Double	Yes	3	Argon	1.7	0.3	0.56	35	Yes	-	NR5688-36780778-ES5
Clear-LoE	Double	No	3	Argon	1.7	0.3	0.63	39	Yes	-	NR5688-34746899-ES5
Clear-LoE	Double	No	3	Argon	1.7	0.3	0.63	39	Yes	-	NR5688-36780777-ES5
LoE-LoE	Double	Yes	2&4	Argon	1.59	0.28	0.5	34	Yes	-	NR5688-34746902-ES5
LoE-LoE	Double	No	2&4	Argon	1.59	0.28	0.56	38	Yes	-	NR5688-34746901-ES5
Clear(O)-Clear(O)-LoE	Triple	No	5	Argon	1.59	0.28	0.6	40	Yes	Yes	NR5688-34746904-ES5
Clear-Clear-LoE	Triple	No	5	Argon	1.59	0.28	0.57	38	Yes	-	NR5688-34746906-ES5
Clear-Clear-LoE	Triple	No	5	Argon	1.59	0.28	0.57	38	Yes	-	NR5688-36780781-ES5
Clear-LoE-LoE	Triple	No	3&5	Argon	1.42	0.25	0.54	40	Yes	Yes	NR5688-36780784-ES5
LoE-Clear(O)-LoE	Triple	No	2&5	Argon	1.42	0.25	0.52	39	Yes	-	NR5688-34746903-ES5
LoE-Clear-LoE	Triple	No	2&5	Argon	1.42	0.25	0.51	38	Yes	-	NR5688-34746905-ES5

3520 – Comfort Star Patio Door Energy Rating

Model	Glazing Layers	Grid	Low-E	Gap Fill	U-Factor (M)	U-factor (IMP)	SHGC	ER	ENERGY STAR	ES Most Efficient	NRCan Reference
LoE-LoE	Double	No	2 & 3	Argon	1.48	0.26	0.47	34	Yes	-	NR5688-39567406-ES5
Clear-LoE	Double	No	3	Argon	1.53	0.27	0.53	36	Yes	-	NR5688-39567398-ES5
366-Clear-LoE	Triple	Yes	2 & 5	Argon	1.02	0.18	0.17	26	Yes	Yes	NR5688-39567423-ES5
366-Clear-LoE	Triple	No	2 & 5	Argon	0.97	0.17	0.19	29	Yes	Yes	NR5688-39567421-ES5
366-Clear-366	Triple	Yes	2 & 5	Argon	0.91	0.16	0.16	28	Yes	Yes	NR5688-39567433-ES5
366-Clear-366	Triple	No	2 & 5	Argon	0.91	0.16	0.18	29	Yes	Yes	NR5688-39567432-ES5
366-Clear-Clear	Triple	No	2	Argon	1.19	0.21	0.2	25	Yes	-	NR5688-39567443-ES5
Bronze-LoE-LoE	Triple	Yes	3 & 5	Argon	1.02	0.18	0.31	35	Yes	Yes	NR5688-39567458-ES5
Bronze-LoE-LoE	Triple	No	3 & 5	Argon	1.02	0.18	0.35	37	Yes	Yes	NR5688-39567454-ES5
Bronze-LoE-Clear	Triple	No	3	Argon	1.25	0.22	0.38	34	Yes	-	NR5688-39567412-ES5
Clear-LoE-LoE	Triple	Yes	3 & 5	Argon	1.02	0.18	0.4	40	Yes	Yes	NR5688-39567457-ES5
Clear-LoE-LoE	Triple	No	3 & 5	Argon	1.02	0.18	0.45	43	Yes	Yes	NR5688-39567453-ES5
Clear-LoE-Clear	Triple	Yes	3	Argon	1.31	0.23	0.43	35	Yes	-	NR5688-39567409-ES5
Clear-LoE-Clear	Triple	No	3	Argon	1.25	0.22	0.49	40	Yes	Yes	NR5688-39567411-ES5
Grey-LoE-LoE	Triple	Yes	3 & 5	Argon	1.02	0.18	0.28	33	Yes	Yes	NR5688-39567459-ES5
Grey-LoE-LoE	Triple	No	3 & 5	Argon	1.02	0.18	0.32	35	Yes	Yes	NR5688-39567455-ES5