

Passive House (PassivHaus)

Kohltech has windows and doors that have achieved the rigorous certification standard of the Passive House Institute US. A Passive House is essentially a well insulated house that exceeds most existing standards relating to energy usage. There are only 13 Manufacturers in North America and only 2 in Canada that have window projects certified for this program.

PASSIVE HOUSE STANDARDS

The building must be designed to have an annual heating and cooling demand as calculated with the Passivhaus Planning Package of not more than 15 kWh/m² (4,2755 BTU/ft.; 5.017 MJ/sq. ft.) per year in heating or cooling energy OR be designed with a peak heat load of 10 W/m² (1.2 hp/1000 sq. ft.)

Total primary energy (source energy for electricity, etc.) consumption (primary energy for heating, hot water, and electricity) must not be more than 120 kWh/m² (38,040 BTU/sq. ft.; 40.13 MJ/sq. ft.) per year

The building must not leak more air than 0.6 times the house volume per hour ($n_{50} \leq 0.6$ / hour) at 50 Pa (0.0073 psi) as tested by a blower door, OR alternatively when looked at the surface area of the enclosure, the leakage rate must be less than 0.05 ft³ per minute

The specific heat load for the heating source at design temperature is recommended, but not required, to be less than 10 W/m² (3.17 BTU/h.ft²)

WINDOWS

PRODUCT TYPE

Casement, Awning, Narrow Picture, Wide Picture, and operating Tilt & Turn and Double Hung.

PRODUCT SERIES

Supreme, Supreme 2020 Series are all certified under the PHIUS standard.

WINDOW MULLION

Non-Reinforced Mullion (i.e. No T-Mullions)

A non-reinforced mullion span must be 60 inches or below.

The interval between spans is to be no more than 38 inches.

GLASS OPTIONS

Triple Energlass Plus Argon

Triple Energlass Plus Argon LSG

OPTIONS

Installation	Brick ties are required
Brickmoulds and Nailing Fin	No restrictions on brickmould or nailing fin
Jamb Extension	No restrictions on jamb extension
Grilles	No grilles

DOORS

PRODUCT TYPE

Inswing Door, Direct Glazed Sidelite, Inswing Door Sidelite, Transom. Individual Units, not Mullled.

PRODUCT MATERIAL

Steel Slabs with Triple Glazed Lite Kits only. Cellular PVC Frame.

LITE KITS SIZES

Doors – 2236, 2248, 2264

Sidelites – S100

Transom – All Sizes Within Paradigm Restrictions

GLASS OPTIONS

Triple Energlas Plus Argon

Triple Energlas Plus Argon LSG

OPTIONS

Mulling	No mulling
Panic Prep	No panic prep
Closer Prep	No closer prep
Sill	High performance sills only
Grilles	No grilles



Kohltech International Limited cannot be held responsible for information contained herein that may change or be incorrect at time of specification or purchase without prior verification by the buyer with Kohltech International Limited. Due to product improvement and other factors, specification and details are subject to change without notice. To ensure that information contained herein has not become obsolete, please contact Kohltech International Limited for any updated information before specification or use. All products referenced are manufactured by Kohltech at the time of this printing. 08/21 CAN.