

Top Window Manufacturer, Providing Passive House Certified Windows, Explains the History of Passive Home Design

Intus Windows, a worldwide leader in passive home windows, says that there are great benefits to passive house design.

NEW YORK, NY, UNITED STATES, August 18, 2014 /EINPresswire.com/ -- According to Aurimas Sabulis, managing director of Intus Windows (<http://www.intuswindows.com/>), a worldwide leader in top-of-the-line [passive house certified](#) products, people sometimes confuse the Passive House Institute of the United States (PHIUS) and the Passivhaus Institut (PHI) of Germany. Sabulis says that they are actually two separate organizations, but they share the common goal of constructing and designing energy-efficient structures

“Dr. Wolfgang Feist developed the Passivhaus standard and the first Passivhaus was built in 1990, in Darmstadt, Germany,” says Sabulis.

“Katrin Klingenberg is the co-founder and executive director of PHIUS, an organization she founding in 2007 with Mike Kernagis.”

According to Sabulis, both organizations have rigorous standards for achieving certification, which is voluntary. The standards involve designing and building an energy efficient home with a design that reduces its carbon footprint, by requiring very little energy to heat or cool the home or building.

“The North American climate is very diverse and ranges from extreme desert climates, humid tropical climates, to arctic climates, and everything in between,” he explains. “Therefore, different techniques and approaches are necessary for each distinct climate zone in North America.”

Sabulis says that, generally speaking, the [Passive House standard](#) for certification includes the following:

- Buildings must be super insulated and air-tight



Intus Window



Intus Windows

- Window glazing U-Value of 0.14 or better is preferred (depends on climate zones and other variables)
- Thermal bridges must be minimized or eliminated
- A blower door test must achieve a standard of 0.60 ACH @ 50Pa or lower
- Mechanical air ventilation via an ERV or HRV unit
- Minimal Energy use with a maximum of 4,750 Btu/ft² per year for heating & cooling
- No open flue fireplaces are allowed
- Utilization of passive heat gains from solar, occupants and appliances.

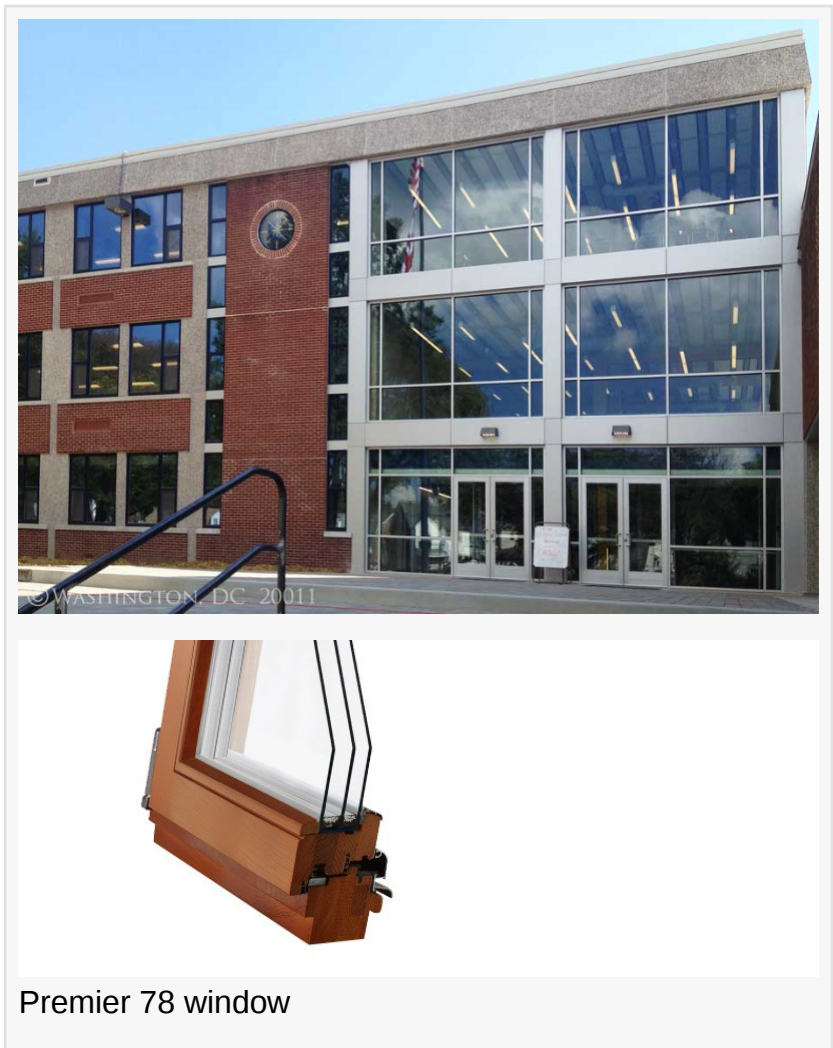
“While this is a pretty complete general summary of the standards, contacting either PHI or PHIUS will provide more detailed specifications,” he explains. “With either organization, one of the most important factor will be determining window glazing options, since that is how the passive solar heat gain is achieved within the structure.”

Intus [triple pane uPVC windows](#) are utilized in many PHI and PHIUS homes and buildings, according to Sabulis, as well as in Net Zero, LEED, and other efficient building structures. Intus uPVC triple pane windows are passive house suitable and designed to attain superior energy efficiency but at a reasonable price.

“Whether you are trying to achieve PHI, PHIUS, or any other energy efficient standard,” he concludes, “Intus is proud to play a role in helping building owners attain an energy efficient structure.”

Intus Windows (<http://www.intuswindows.com/>) is a pioneer in manufacturing and distributing super energy-efficient windows and doors in the United States. Driven by technology, innovation, and continuous progress Intus Windows energy-efficient windows, doors, and curtain walls lines will fit any commercial, residential or industrial application, and they are Passive House Certified and suitable. For the past 21 years the company has manufactured and installed more than 800,000 windows and doors all over the world, with main export markets in Scandinavia, Central and Eastern Europe. Today, with a manufacturing facility in Lithuania, Intus has entered into the super energy-efficient window market here in the United States. For more information, call 1-888-380-9940.

Ema Klimaite
Intus Windows
1-888-380-9940
email us here



Premier 78 window

This press release can be viewed online at: <http://www.einpresswire.com>

Disclaimer: If you have any questions regarding information in this press release please contact the

company listed in the press release. Please do not contact EIN Presswire. We will be unable to assist you with your inquiry. EIN Presswire disclaims any content contained in these releases.

© 1995-2016 IPD Group, Inc. All Right Reserved.