



1. End-to-end performance

1.1 PH Performance empowers your business

1.1.1 Product performance : PH at the top of its game



1.1.1.1 Window and Door Standards: what you should know about certification

Certification seems simple enough to understand at first glance, but to ensure great performance and quality, certification must meet many requirements. Product certification standards were created to provide a common reference from which different windows could be compared under similar conditions. Weather conditions simulated in laboratory tests are much more severe than natural conditions. The same window, however, may perform differently outside the lab, depending on the particular circumstances and the quality of the installation.

For P.H Tech, certification matters and we make sure our window series go through the most stringent and intricate testing. Our product line has met or exceeded tests under the NAFS (North American Fenestration Standard) which focus on window, door and skylight specifications. To top it off, P.H Tech has also scored above expectations for the American Architectural Manufacturers Association, Window & Door Manufacturers Association and the Canadian Standards Association.

These levels of certification vouch for P.H Tech's performance, but what do they test and how do they work?

AAMA/WDMA/CSA 101/I.S.2/A440-08 is the voluntary performance specification for aluminum, vinyl and wood-framed windows and glass doors. It provides standards for air leakage, water penetration, structural strength and forced-entry resistance. Rigid vinyl extrusions must be tested and certified under "AAMA 303".

Products that have earned the right to display the AAMA certification label have had a sample unit pass independent laboratory tests and only products that bear this prestigious label are certified by the manufacturer. Plus, production lines for windows and doors in the AAMA Certification Program are subject to two unannounced annual audits.

Any manufacturer may have product prototypes or samples independently tested for conformance to AAMA standards, and may claim such conformance based on these test results. However, unless the manufacturer participates as a licensee in the official certification Program, there is no independent verification of test results and no follow-up inspection.

When a PVC extruder has its products tested, the results are transferable to manufacturers for product certification purposes provided the manufacturer complies with fabrication specifications. This is a considerable asset to the manufacturers such as P.H Tech because it reduces considerable laboratory fees, saves time on lengthy product development, and clears up technical uncertainty.

Throughout Canada laboratory test results can be issued according to the CAN/CSA A-440-00 and the CAN/CGSB-82.1-M90. These tests reflect the nomenclature A, B, C and F to designate respectively air resistance, water resistance, wind resistance and forced-entry.

The Canadian Construction Materials Centre (CCMC) offers a widespread national evaluation service for all types of materials, products, systems and innovative services in construction. Located at the Institute for Research in Construction (IRC-CNRC) of the National Research Council (NRC), the IRC ensures that the evaluations are based on the National Building Codes of Canada; requirements which include health, security, functionality, accessibility, appearance and exit. Furthermore, they make sure that the expertise and technology are cutting edge. P.H Tech is proud to say that our products are evaluated by the Canadian Construction Materials Centre (CCMC), which uses CSA standards for testing. Industry pros count on the CCMC's evaluations for impartial, technical opinions on innovative construction products, including doors and windows.

For more information on the CCMC, go to the following website:
http://irc.nrc-cnrc.gc.ca/ccmc/regprodeval_f.html