



BLACKWATER

TESTING LAB





BLACKWATER

TESTING LAB

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WHO WE ARE

BLACKWATER TESTING LABORATORY

Blackwater Testing srl is the first laboratory, based in Europe, and specialized in fenestration and construction material testing for North America and Oceania standards.





Our accreditation achievements make us the gateway to European producers in the most ambitious global markets.

With our services and thanks to the experience and competences gained, we are the best partner to help you to reach the most aspiring certifications, among which AAMA/WDMA/CSA101/IS2/A440, Miami Dade, DBPR Florida Dept. of Business and Professional Regulation, NFRC.



IAS CERTIFICATION

Blackwater Testing srl aims to be an important source for all the European Producer in term of technical support and cost reduction.

As demonstration of our dedication, our mechanical test services are accredited by IAS/ILAC ® (International Accreditation Service®), between the most prestigious certification body for international testing laboratory.

This important certification lets Blackwater Testing srl to be a strategic partner for your own business.

CERTIFICATIONS



MECHANICAL TEST
NORTH AMERICA

HVHZ / IMPACT CERTIFICATION

Among the most important certifications required in the United States and all the Caribbean paradises, HVHZ and impact approval is the strictest and required proof of compliance for Impact Resistant products.

Small and Large Missile Impact and Cyclic Load Test.

Blackwater Testing srl is the first and unique laboratory certified for Miami-Dade and DBPR Florida Dept. outside the North America.



MECHANICAL TEST
NORTH AMERICA

AAMA / WDMA CSA 101 / I.S.2 / A440 CERTIFICATION

The North America fenestration standards is another important step for your business in the US and Canada, following this procedure your products will obtain a rating, where is stated the performance grade for:

Air Infiltration, Water Penetration, Static Load.

Bring your european products to a higher level.



MECHANICAL TEST OCEANIA

AS 2047 / NZS 4211 CERTIFICATION

Blackwater Testing is the first laboratory to bring the Australian and New Zealand test in Europe.

Our services include the mechanical tests for:

Air infiltration, Water penetration, Serviceability strength, Ultimate strength.

These tests open to the European manufacturer the possibility to compete in the Oceania Markets.



THERMAL SIMULATION NORTH AMERICA

NFRC CERTIFICATION

Blackwater Testing srl is the unique lab accredited to provide the thermal certification outside the United States and Canada. This important approval is required in the mostly part of the North America continent. NFRC certification gives consumers the assurance that your product has been rated by the world's foremost expert in window, door, and skylight performance, in addition to ensuring compliance. Furthermore, it gives your product added visibility in the marketplace by being listed in the NFRC Certified Product Directory.

Thermal simulation for U_{FACTOR}, SHGC, VT and CR.

Give to your customers the assurance that your products has been rated by the world's foremost expert in fenestration system.



NORTH AMERICA - ACCREDITED PROCEDURE

| STANDARD | TITLE | MECHANICAL | | | THERMAL |
|-------------------------------|--|--------------------|----------------------------|---------|---------|
| | | HURRICANE PRODUCTS | BUILDING ENVELOPE PRODUCTS | RAILING | NFRC |
| AAMA 1304-02 | Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems | X | X | | |
| AAMA 1304-18 | Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems | X | X | | |
| AAMA 450-20 | Voluntary Performance Rating Method for Muller Fenestration Assemblies | | X | | |
| AAMA 513-14 | Standard Laboratory Test Method for Determination of Forces and Motions Required to Activate Operable Parts of Operable Windows and Doors in Accessible Spaces | | X | | |
| AAMA 910-10 | Voluntary "Life Cycle" Specifications and Test Methods for AW Class Architectural Windows and Doors | | X | | |
| AAMA 910-16 | Voluntary "Life Cycle" Specifications and Test Methods for AW Class Architectural Windows and Doors | | X | | |
| AAMA 920-16 | Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems | | X | | |
| AAMA 925-17 | Specification for Determining the Vertical Loading Resistance of Side-Hinged Door Leaves | | X | | |
| AAMA/WDMA/CSA 101/IS2/A440-11 | NAFS 2011 - North American Fenestration Standard/Specification for windows, doors, and skylights. | | X | | |
| AAMA/WDMA/CSA 101/IS2/A440-17 | NAFS 2017 - North American Fenestration Standard/Specification for windows, doors, and skylights. | | X | | |
| ANSI Z97.1 - 2015 | For safety glazing materials used in buildings – safety performance specifications and methods of test | X | X | | |

NORTH AMERICA - ACCREDITED PROCEDURE

| STANDARD | TITLE | MECHANICAL | | | THERMAL |
|-------------------------|---|--------------------|----------------------------|---------|---------|
| | | HURRICANE PRODUCTS | BUILDING ENVELOPE PRODUCTS | RAILING | NFRC |
| ANSI Z97.1 - 2015 R2020 | For safety glazing materials used in buildings – safety performance specifications and methods of test | X | X | | |
| ASTM E1233/E1233M-14 | Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential | | | X | |
| ASTM E1748-95 (2009) | Evaluating the Engagement Between Windows and Insect Screens as an Integral System | | | X | |
| ASTM E1748-95 (2017) | Evaluating the Engagement Between Windows and Insect Screens as an Integral System | | | X | |
| ASTM E1886-13a | Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials | X | | X | |
| ASTM E1886-19 | Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials | X | | X | |
| ASTM E1996-14a | Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials | X | | X | |
| ASTM E1996-20 | Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials | X | | X | |
| ASTM E2025-99(2006) | Evaluating Fenestration Components and Assemblies for Resistance to Impact Energies | | X | | |
| ASTM E2068-00 | Standard Test Method for Determination of Operating Force of Sliding Window and Doors | | X | | |
| ASTM E2353-16 | Performance of Glazing in Permanent Railing Systems, Guards, and Balustrades | | | X | |



NORTH AMERICA - ACCREDITED PROCEDURE

| STANDARD | TITLE | MECHANICAL | | | THERMAL |
|--------------------|---|--------------------|----------------------------|---------|---------|
| | | HURRICANE PRODUCTS | BUILDING ENVELOPE PRODUCTS | RAILING | NFRC |
| ASTM E2353-21 | Performance of Glazing in Permanent Railing Systems, Guards, and Balustrades | | | X | |
| ASTM E2358-17 | Glass Railing Systems Specification | | | X | |
| ASTM E283-04 | Standard Test Method for Determining Rate of Air Leakage Through Exterior Window, Curtain Walls, And Doors Under Specified Pressure Differences Across the Specimen | X | X | | |
| ASTM E283 E283M-19 | Standard Test Method for Determining Rate of Air Leakage Through Exterior Window, Curtain Walls, And Doors Under Specified Pressure Differences Across the Specimen | X | X | | |
| ASTM E330/E330M-14 | Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference | X | X | | |
| ASTM E331-00 | Standard Test Method for Water Penetration of Exterior Window, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference | X | X | | |
| ASTM E331-00(2016) | Standard Test Method for Water Penetration of Exterior Window, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference | X | X | | |
| ASTM E547-00 | Standard Test Method for Water Penetration of Exterior Window, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference | | X | | |
| ASTM E547-00(2016) | Standard Test Method for Water Penetration of Exterior Window, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference | | X | | |
| ASTM E935-13e1 | Performance of Permanent Metal Railing Systems and Rails for Buildings | | X | | |
| ASTM E935-21 | Performance of Permanent Metal Railing Systems and Rails for Buildings | | X | | |

NORTH AMERICA - ACCREDITED PROCEDURE

| STANDARD | TITLE | MECHANICAL | | | THERMAL |
|---------------------|---|--------------------|----------------------------|---------|---------|
| | | HURRICANE PRODUCTS | BUILDING ENVELOPE PRODUCTS | RAILING | NFRC |
| ASTM E987-88 | Standard Test Methods for Deglazing Forced of Fenestration Products | | X | | |
| ASTM E987-88 (2017) | Standard Test Methods for Deglazing Forced of Fenestration Products | | X | | |
| ASTM F588-14 | Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact | X | X | | |
| ASTM F588-17 | Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact | X | X | | |
| ASTM F842-14 | Standard Test Method for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact | X | X | | |
| ASTM F842-17 | Standard Test Method for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact | X | X | | |
| TAS 201-94 | Testing Application Standard Impact Test Procedures | X | | | |
| TAS 202-94 | Testing Application Standard Criteria for testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure | X | | | |
| TAS 203-94 | Testing Application Standard Criteria for Testing Products Subject to Cyclic Wind Pressure Loading | X | | | |



OCEANIA - ACCREDITED PROCEDURE

| STANDARD | TITLE | MECHANICAL | | | THERMAL |
|----------------|---|--------------------|----------------------------|---------|---------|
| | | HURRICANE PRODUCTS | BUILDING ENVELOPE PRODUCTS | RAILING | NFRC |
| AS 4420 2-1996 | Windows - Methods of test Deflection test | | X | | |
| AS 4420 3-1996 | Windows - Methods of test Operating force test | | X | | |
| AS 4420 4-1996 | Windows - Methods of test Air infiltration test | | X | | |
| AS 4420 5-1996 | Windows - Methods of test Water penetration resistance test | | X | | |
| AS 4420 6-1996 | Windows - Methods of test Ultimate strength test | | X | | |

NORTH AMERICA - ACCREDITED PROCEDURE

| STANDARD | TITLE | MECHANICAL | | | THERMAL |
|--------------------|--|--------------------|----------------------------|---------|---------|
| | | HURRICANE PRODUCTS | BUILDING ENVELOPE PRODUCTS | RAILING | NFRC |
| ANSI-NFRC 100-2020 | Procedure for Determining Fenestration Product U-factors | | | | X |
| ANSI-NFRC 200-2020 | Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence | | | | X |
| ANSI-NFRC 500-2020 | Procedure for Determining Fenestration Product Condensation Index Ratings | | | | X |



OUR VIDEO



SCAN THE QR-CODE with your smartphone!



YOUR BEST PARTNER FOR TESTING AND IMPROVE

Blackwater Testing srl is the first laboratory to bring certifications of worldwide in Europe, with the utmost professionalism and reliability, making us the gateway to reach your new clients.

MECHANICAL TEST

- NORTH AMERICA**
- HVHZ / IMPACT
 - AAMA / WDMA
 - CSA 101 / I.S.2 / A440

OCEANIA

- AS2047/NZS4211

THERMAL SIMULATION

- NORTH AMERICA**
- NFRC



BUSINESS GLOBALIZED

BUSINESS GLOBALIZED



TESTIMONIAL

GASTALDELLO

I went to Blackwater to carry out some tests on different window frames: the staff proved ready and prepared to perform the requested tests in the shortest possible time, always respecting the deadlines set by regulations. I noticed how Blackwater technicians take the customer to heart and the entire staff seem an integrated part of the company itself: they were able to give us effective answers in a short time. Furthermore the brand new equipment convinced us of the excellent choice made.

Davide Gastaldello

BROMBAL

By exporting a large part of our production to North America, tests for this countries are becoming routine: therefore we have been looking for an Italian partner which whom to collaborate with on permanent basis; it was also important the range of tests it carries out not only related to the US market, but to New Zealand and Australia as well. In this way we have significant savings, as these same tests performed overseas have a huge cost and risk. They are a small and young laboratory, with friendly and helpful staff able to provide fast and precise answers without too much bureaucracy or waste of time, on the contrary, they gave us fundamental advice for improving products and performance.

Pierpaolo Brombal

CIMOLAI-ASC

We were looking for an accredited laboratory which could satisfy our requests in terms of official tests for the American market. Through an internet search we learned about Blackwater, it was a positive experience, in fact we were very satisfying in all collaborations carried out, consistently finding willingness, assistance, qualified personnel and, above all, the accreditations sought.

Marco Prest

VIEWSCAPES

The variety of tests BW performs as a Certified Entity and its proximity to our manufacturing facility also located in Italy, made us choose this laboratory to obtain the necessary certifications to our NFRC and AAMA windows&doors frames for the US market. We are confident : the direct line of communication with the laboratory staff, the professionalism and courtesy of the BW team, are, for sure, the complete solution for those who are looking for the right and efficient partner to obtain certifications.

Marco Ginella

NEUFFER FENSTER + TÜREN GMBH

Having learned about this laboratory through one of our suppliers, we managed to get in touch with BW technicians who, from the beginning, proved to be very professional and cooperative. Convenient to our location because of its European position, the lab is provided with innovative technical equipment and provides support throughout the internal process, while guiding the customer to a grade 10 experience.

Florin Carburaru





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