Phius Window and Door Certification Program
Orange Path Fees and Submission Requirements

Program Overview

The Phius Window Data Certification Program is a voluntary program that verifies the performance of fenestration products at the individual component level (glass, spacer, and frame) via LBNL THERM/WINDOW software.

Passive building practitioners need this component data to properly model the thermal performance of a fenestration product (window/door/skylight) at its exact size for a passive building project. This data is generally not readily available in the marketplace. Certified products are listed publicly in the Phius Window/Door Database, and manufacturers also receive digital certificates that can be printed, distributed, or posted to their respective websites.

Orange Path Conditions

The Phius Orange Path is available to all manufacturers and does not require any existing certifications.[1]
Products are modeled in-house at Phius or by a Phius-trained Orange Path simulator. All submitted products must use glass panes listed in the LBNL IGDG (International Glazing Database).

- **Note:** Manufacturers with NFRC CPD numbers for their products are encouraged to use the Phius Blue Path.

Orange Path Fees

The cost of Orange Path certification is split between two fees:

1. **Phius Database Listing Fee.** This fee covers the cost of hosting certified product data on Phius.org. The fee structure is as follows, and applies per job (i.e., per batch of products to be certified):
   - 1 – 10 products: $650
   - 11+ products: $650 + $15 per product over 10

2. **Orange Path Calculation fee.** The cost of this fee depends on your scope of certification. The primary cost driver is the number of unique frame profiles you wish to use. For a quick estimate, use the companion Orange Path Cost Estimation Tool on the Phius website. Phius will provide an official quote prior to the start of all certification work.
   - **Note:** The average Orange Path job costs approximately $3,000, inclusive of the Phius Database Listing Fee.

Orange Path Submission Checklist

Please submit the following information to Phius to receive a quote and begin your certification work:

- ✓ Dimensioned drawings of all frame profiles used.
  - **Note:** .DXF file format is preferred for drawings.
- ✓ Bill of materials, preferably with material callouts on your drawings
- ✓ Manufacturer(s) and model(s) of all spacers used.
- ✓ LBNL IGDB ID numbers for all IGU panes.
- ✓ Simulation order sheet with IGU details and product combinations to be modeled.

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[1] Sliding windows must also submit airtightness test reports. Acceptable standards include but are not limited to: ASTM E283 or ISO ISO 6613:2023. There is no required performance value for these tests.