Determining the energy performance of windows, doors, curtain-walls, and other fenestration products is critical to consumers, manufacturers, trade associations, builders, and architects who rely on a standard reference point for product comparison. ATI is the industry authority in applying test methods approved by recognized certifying organizations to provide precise, accurate data—the foundation of a fair and impartial energy rating.

As an independent testing laboratory, ATI provides impartial, precise data on thermal-performance that are compiled in consistent forms, including technical reports for performance evaluation of materials or components as well as long-term data collection and statistical analysis. And thanks to our comprehensive capabilities, you get the added convenience of managing multiple tests within one firm. Because of our expertise, we can also provide authoritative advice on general principles that affect results. We offer seminars at our headquarters or at customer sites to help improve products, troubleshoot problems, and create better solutions.
To meet customer scheduling needs that may require quick turnaround times, ATI has made a substantial investment in facilities and capacity. Thermal testing can be performed in our California, Minnesota, or Pennsylvania offices. Our facilities incorporate three chambers, each capable of running two separate tests simultaneously—accommodating a total of six products a day.

ATI understands that the quality of equipment determines the quality of the test, so we are meticulous about our box design and instrumentation. A typical test setup will involve 20 to 30 thermocouples, but we can also employ up to 100 thermocouples if needed for custom setups. The thermal laboratory can accommodate large specimen sizes up to 10' x 10’. We have also devised a rotating thermal chamber for advanced thermal testing.

Finally, we can perform computer-based thermal modeling. Thanks to our experience with products in the real world, we know how to create models that are more predictive of actual performance.

**Test Methods**
- AAMA 1503
- ASTM C1199
- ASTM C1363
- CSA A440.2
- NFRC 102
- NFRC 101
- NFRC 202
- ASTM C518

**Tested Products**
- Casement windows
- French patio doors
- Aluminum curtain walls
- Insulating glazing units
- Wall systems
- Insulated panels
- Unique materials (such as straw bale wall systems)
- And more

**Other Related Services**
- BUILDING ENVELOPE COMMISSIONING
- SOLAR HEAT GAIN
- FIELD TESTING AND VALIDATION
- INSULATING GLASS TESTING

**Capabilities**

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