

A DAWSON DOOR PRODUCT:

TRANSCEND THERMALLY BROKEN ENTRANCE

CUSTOM CRAFTED OPTIONS & TECHNICAL SPECIFICATIONS

A PREMIER AMERICAN METAL FABRICATOR SINCE 1946



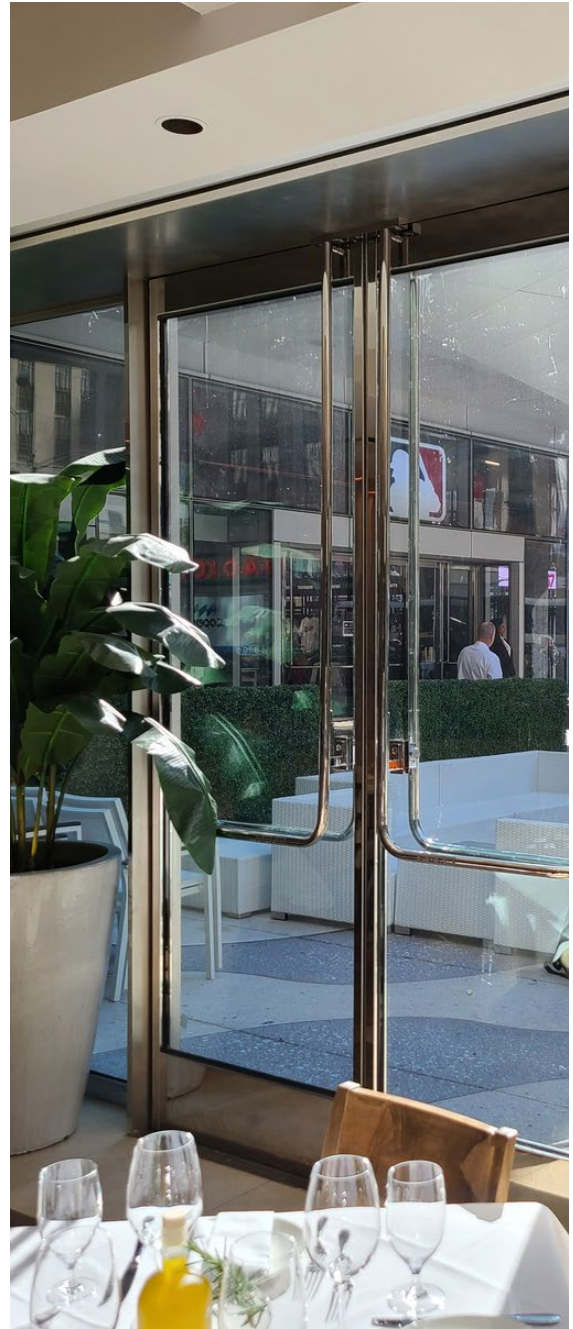
DOOR PRODUCT /

TRANSCEND THERMALLY BROKEN ENTRANCE

The transcend thermally broken door is the latest innovation to arise from Dawson's unmatched reputation for service and commitment to industry-leading products. We continue to be committed to providing the highest quality, fully assembled, ready-to-install products that reduce energy cost, reduce installation labor hours, and help you complete your project on time and on budget, every time.

UNPARALLELED SERVICE, START TO FINISH

- Assigned Project Managers from inception of order through final approval and fabrication
- Real-time engineering support
- Dedicated Dawson Engineer assigned to ensure effective, time-saving communication
- Custom shop drawing preparation and submittals project specific for each customer's design
- State-of-the-art 3D parametric modelling design software to produce manufacturing documents that offer shorter engineering lead times and consistency achieved by a proven product
- Proven success in ease of installation



KEY FEATURES

+

INDUSTRY-LEADING ENERGY EFFICIENCY

- Air leakage rate across specimen tested at @1.57 psf (25 MPH) Per ASTM E283-04(12)
 - Tested result: 0.19 cfm/ft²
- Test Specimen: two (2) operable leaves of center-pivot entry doors and immediate door frame

+

INDUSTRY-LEADING THERMAL EFFICIENCY

- Tested rate: 0.47 BTU/hour*ft²*F° with glass SHG of 0.388 Per NFRC 100 procedure, ISO 15099 standard; using THERM 7.7.10 and WINDOW
- 1" insulated Low-E glass:
 - Exterior air temperature of -0.4°F
 - Interior ambient temperature of 69.8°F
 - Exterior wind velocity of 12.3 MPH
- U-Value specimen: two (2) operable leaves of Ultra-Narrow Stile (UNS) Stainless Steel, center-pivoted entry doors and immediate door frame
- Thermally broken door utilizes debridged aluminum extrusions with urethane AZON thermal pour (U-value 0.07)



+

INDUSTRY-LEADING AT 1.0 PSF WATER INFILTRATION EFFICIENCY

- Static water penetration at zero leakage with 1.0 psf pressure applied for 15 minutes Per ASTM E331-00(16), for resistance to water penetration under the air pressure differences of 1.0 psf (20 MPH) for a minimum duration of 15 minutes of direct nozzle spray at a rate in excess of 425 gallons per hour

+

INDUSTRY-LEADING EASE OF INSTALLATION

- Reduced labor requirements
- No additional field assembly required
- No field glazing or glazing adjustments after assembly
- Doors shipped factory glazed, immediate frame fully assembled with applicable hardware installed; all entrances arrive crated and ready to install
- Full height, factory fit tubular push/pull sets and panic devices shipped fully installed

+

UNPARALLELED AESTHETICS

- Truly thermally broken doors with no mechanically fastened interior-to-exterior assembly components
- Ultra-Narrow 1 1/2" x 2 1/4" thick vertical stiles
- Stainless steel or brass in factory applied #4 & #6 Satin, #8 Mirror and Non-Directional finishes; powder-coated or wet-paint finish are also available
- Maximum door sizes for fully warranted thermally broken doors:
 - 36" W x 120" H
 - 42" W x 111" H
 - 48" W x 108" H

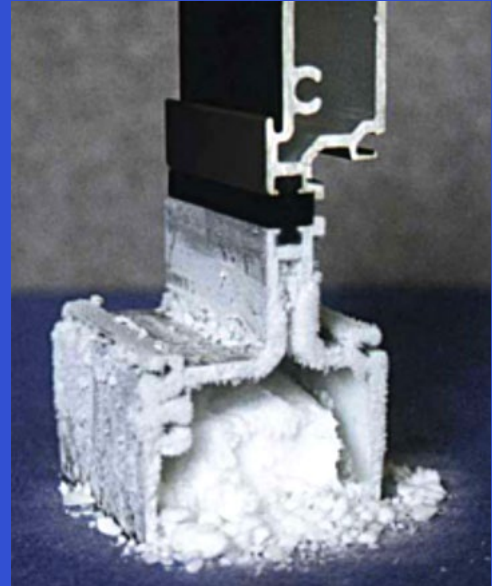
WHY CHOOSE A DAWSON THERMALLY BROKEN ENTRANCE?

Thermally broken entrances solve an otherwise unavoidable problem: damage from condensation. When non-thermally broken doors are used between differing interior/exterior temperatures, the metal frame remains cold as it loses heat to the outside. Condensation forms on this cold inner surface, frost build-up begins, and the door's insulation system is compromised. Over time, as condensation continually leaks down the door and onto the floor and surrounding areas, larger problems arise and degrade the entire system.

A Dawson thermally broken entrance automatically delivers:

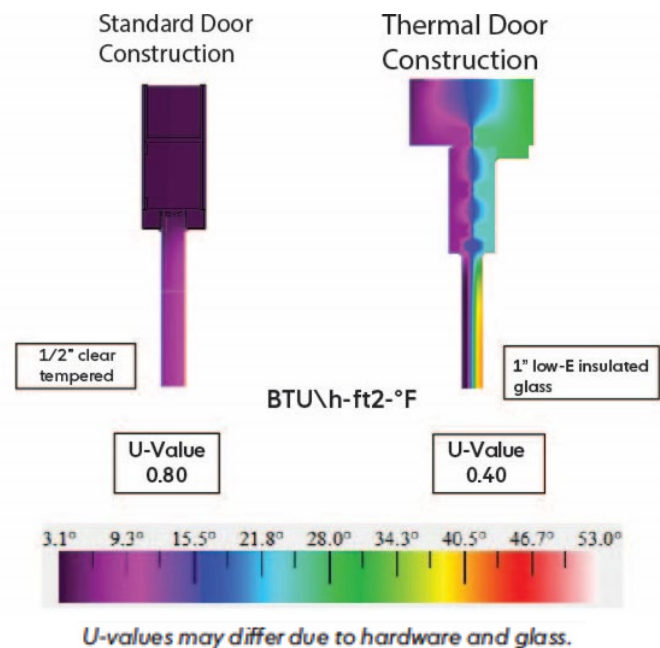
- Dramatically improved heating and cooling costs
- Fully-glazed door using 1" low-E insulated glass
- Overall NFRC U-value greatly surpasses current energy requirement of 0.77
- Much higher condensation resistance factor, reducing interior frost build-up
- Customized complete-system U-values available upon request, for specific thermal analysis of non-typical entrance

*Note that frost is contained to the outside part of the frame (pictured right)



EXAMPLE: Dawson Thermally Broken Entrance

- Total calculated U-value of this Dawson entrance is 0.400 (Btu/hft²-F)
- Glass solar heat gain coefficient (SHGC) is 0.268 (1" low-E insulated glass)
- Calculations are based on NFRC 100 standards with an exterior air temperature of -0.4°F, an interior ambient temperature of 69.8°F, and an exterior wind velocity of 12.3 MPH





DAWSON

A family-owned and operated business since 1946, Dawson Doors is the leading manufacturer of high quality architectural products offering balanced and standard swing doors and entrances. Our entrances are manufactured from the highest quality stainless steel and bronze materials. We provide exquisite entrances to some of the most prestigious buildings around the country and throughout the world.

 INQUIRE NOW FOR A QUOTE

716 664 3811

www.DawsonMetal.com

825 Allen Street, Jamestown, NY 14701