850

THERMACORE® AP DOOR SYSTEMS

INSULATED SECTIONAL ADVANCED PERFORMANCE DOORS

CLIMATE CONTROL.
DURABILITY.
EASE OF MAINTENANCE.

OVERHEAD DOOR®

INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS

Standard features at a glance

Panel thickness	3" (76.2 mm)
Maximum standard width	40'2" (12243 mm)
Maximum standard height	24'1" (7317 mm)
Exterior steel	.015" (.38 mm)
Exterior surface	Microgroove, textured
R-value[1]	26 (4.58 K m²/W)
U-value[2]	.038 (.22 W/K m²)
Installed U-factor[3]	.14 Btu/hr * ft² * F° (.80 W/m²)
STC rating[4]	Class 22
Air infiltration: at 15 mph (24 kmph)	.09 cfm/ft² (1.65 m³/hr/m²)
IECC®	Meets requirements for U-factor and air infiltration
Thermal break	1-3/4" wide PVC thermal break; PVC thermal break on end stiles
Standard springs	10,000 cycles
Joint profile	Dual barrier tongue-in-groove meeting rail consists of the industry's first dual tongue and groove joint profile (patents pending)
Perimeter protection	Header seal; bottom weather seal; rigid PVC retainer with dual-durometer PVC bulb seal
Continuous hinge strip	Two continuous steel strips at top and bottom of section
Exterior color	White, Brown, Almond, Taupe
Interior color	White
Limited warranty	10-year delamination 1-year material and workmanship 3-year/20,000 cycle door and operator system (material and workmanship)

Options

- Large thermal lites (25" x 13"); black frame standard; insulated lites (24" x 6"); optional color matched frame
- Glass: insulated tempered, multi-wall polycarbonate in clear, bronze, or white
- High-cycle springs
- High-usage components
- Electric operator
- Chain hoist
- Cable failure device
- Exhaust ports
- Enhanced thermal performance jamb seal
- EPDM[5] outer bulb seal recommended for more extreme environments

[1] R-value is a measure of thermal efficiency. The higher the R-value the greater the insulating properties of the door. Overhead Door Corporation uses a calculated door curtain
R-value for our insulated doors.
[2] U-value is a measure of the flow of heat through an insulating or building material; the lower the U-value, the better the insulating ability. U-value is the inverse of R-value.
[3] A tested value of actual energy loss - whether heat or cold-of an installed door, wall, or window assembly. The lower the number the lower the energy loss and therefore the better the thermal performance. For best U-factor, choose finish and color with high solar reflectance (bright colors).
[4] Sound Transmission Class (STC): how well the door reduces airborne sound. The higher the number the better sound reduction.
[5] Ethylene propylene diene monomer rubber. Used in the automotive industry for its superior durability and wearability.

Cover image: *Model 850, large thermal lites, Brown paint finish*

Image above: *Model 850, large thermal lites, Almond paint finish*

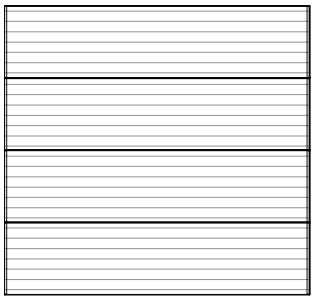
Advanced performance

The Model 850 is the ideal choice for thermal protection against heat or cold in heavy duty applications, including the following:

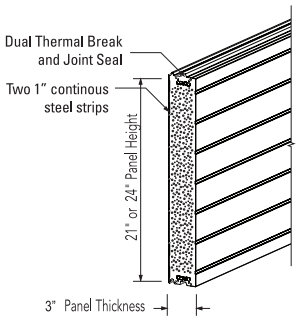
- Agricultural buildings
- Food and beverage storage facilities
- Pharmaceutical facilities
- Climate controlled facilities
- Industrial manufacturing facilities
- Government facilities
- Shipping and receiving docks

Model 850, White finish, exhaust vent (shown opened)

Panel and glazing options



Microgroove, texture



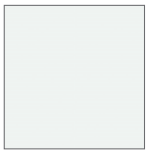
Large lites* (25" x 13")

Insulated lites (24" x 6")

Available with insulated glass, insulated tempered glass or multi-wall polycarbonate clear glazing (brown, white or clear). Black frame is standard. Contact your Overhead Door™ Company Distributor for specific glazing detail.

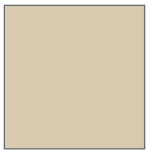
*Color matched frames are available.

Color options



White

Brown



Almond

Taupe

Actual colors may vary slightly from brochure due to fluctuations in the printing process. Ask your Overhead Door™ Company Distributor for color samples.

Special features

PVC thermal break on end stiles

Enhanced thermal performance jamb sea

3" thick foamed-in-place polyurethane sections

Dual barrier tongue and groove joint profile

Bottom weatherseal with rigid PVC retainer and dual durometer PVC bulb seal

Architect's Corner

A resource for architects, containing comprehensive technical and resource materials to support your project, including drawings and specifications for commercial doors.

The original, innovative choice for unequalled quality and service.

Overhead Door Corporation pioneered the upward-acting door industry, inventing the first upward-acting door in 1921 and the first electric door operator in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door™ products more often than any other brand. Our family of over 400 Overhead Door™ Company Distributors across the U.S. and Canada not only share our name and logo, but also our commitment to excellence.

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