

Breakfree™ 400



Your unbeatable cold storage door !

The Breakfree™ 400 door is the cold storage door that offers the high insulation value of a 4" thick polyurethane door and the ability to break away upon impact.

This patented door is designed to release the bottom section on impact, from the inside or the outside, and to be easily set right back into place. The 4" thick expanded polystyrene (EPS) insulated knockout bottom section, in 30" or 48" height, is made out of an extremely resistant thermoplastic composite skin that can withstand heavy impacts.

The Breakfree™ 400 door is ideal for applications such as:

- Heavy distribution warehouses
- Grocery distribution warehouses
- Food processing plants
- Pharmaceutical warehouses
- Heavy manufacturing

Bidirectional impact-resistant 30" high bottom section
Breakfree™ 430 shown hit from the outside



Breakfree™ 400

Cold Storage Doors Series

Section 08326

Impact-resistant and high technology material:

The 30" or 48" high Breakfree bottom section, made out of thermoplastic composite skins, is highly impact-resistant. This thermoplastic composite panel has been successfully tested as per the *Missile Impact Test TAS 201 of the Florida (USA) Building Code*.

Bidirectional break-away hardware to withstand impact:

The hardware is engineered to allow the knockout bottom section to swing open outward or inward, upon impact. The break-away hardware makes it easy to put the door right back into place.

Well insulated:

The Breakfree™ 400 door is a combination of 4" thick polyurethane insulated top and intermediate steel sections and an impact-resistant 4" thick expanded polystyrene (EPS) insulated bottom section.

Designed for energy savings:

A deep tongue-and-groove joint with an integral double bubble weather seal ensures a superior airtightness. An authentic thermal break eliminates heat loss by preventing conductivity between external and internal skins. The bottom knockout panel has a strong double U-shaped seal on four sides. Triple-lip weather seal on the perimeter of the whole door.

THERMOSTOP

Tradition of quality



Wind load design criteria:

Doors to withstand a wind load of 21psf (velocity of 90.5 miles/hour) with a maximum horizontal deflection of 1/120 of opening width.

Breakfree bottom panel impact test:

Missile Impact Test TAS 201 of the Florida (USA) Building Code: no penetration of exterior skin under the impact of 2" x 4" x 8' stud at 50' per second.

Reference product:

Breakfree™ 430 or 448, as manufactured by Thermostop Inc., www.thermostop.com

Size:

Up to of 10' 0" W. x 16' 0" H.
(3048mm W. x 4877mm H.)

Thickness:

4" (100mm) thick

Track configuration options:

- Full vertical
- Hi-lift of at least 54" (for the 30" high bottom section)
- Hi-lift of at least 72" (for the 48" high bottom section)

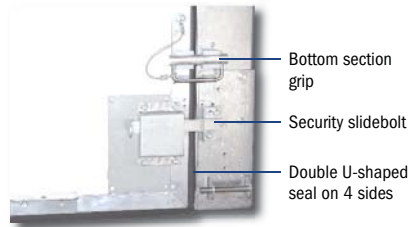
Door sections:

- Top and intermediate sections: Polyurethane insulated 26ga. steel sections, white stucco finish.
- Bottom section: Expanded polystyrene (EPS) foam core shielded on both sides by impact-resistant thermoplastic composite skins, 30" or 48" high, white finish. The bottom section and its hardware are designed to break free, outward or inward, upon impact and to be easily reset in place for continuous operation.

Joint and seal:

- The top and intermediate sections high quality galvanized steel skins are roll-formed into an exclusive tongue-and-groove joint with a true thermal break and a double bubble-shaped weather seal.
- The bottom section is sealed on four sides by an airtight double U-shaped seal.
- The door perimeter is sealed with triple-lip, flexible PVC weather seal, retained in an extra-robust extruded aluminum retainer.

Breakfree bottom section accessories:



Hardware and electric operator:

- Hardware model 80-T (3")
- Electric operator model XTRA-LH or XTRA-H

Note: For more information, please consult the Hardware - Thermostop Industrial Doors and the Operators - Thermostop Industrial Doors brochures.

Breakfree™ 430 door shown hit from the inside



Breakfree™ 430
4" thick - 30" high
bottom section

Breakfree™ 448
4" thick - 48" high
bottom section

- 4" (100mm) thick insulation
- Bidirectional impact-resistant break-away 30" or 48" high bottom section
- Bottom section sealed on all four sides by an airtight double U-shaped seal
- Securely locked with interior slidebolts



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Warranty

The Breakfree polyurethane insulated top and intermediate steel sections and hardware carry a warranty of one (1) year against any defects or faulty workmanship. The polyurethane insulated top and intermediate panels carry a ten (10) year limited warranty against perforation due to rusting and a five (5) year limited warranty on delamination, under normal operational conditions.

