



THERMOSTOP INC., 3775 Losch, Longueuil, Québec, Canada, J3Y 5T7, Tél. : (450) 678-8666, Fax. : (450) 678-7765

SPECIFICATIONS
THERMOSTOP TECHSHIELD II (2" thick) or & TECHSHIELD IV (4" thick)
Section 08 34 19: Industrial Doors

PART 1 – GENERAL

1.1 Works by others :

- Metal fabrication, section 05500
- Electrical power supply, division 16
- Structural work, division 5

1.2 Construction requirements :

- Design doors to withstand wind load of 1 kPa (velocity of 145 km/hour) with a maximum horizontal deflection of 1/120 of opening width
- Door skins to be withstand corrosion due to salt or corroding chemicals

1.3 Shop drawing: Supply shop drawings in accordance with plans and specifications for approval. Contractor shall be responsible for job site dimensions before fabrication and co-ordination with others sub-trades.

1.4 Maintenance instructions: Supply maintenance instructions for hardware and/or others components in accordance section 01300.

1.5 Warranty: Thermostop doors and hardware carry a warranty of one (1) year against any defects or faulty workmanship. The door 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.

PART 2 - PRODUCT

2.1 Materials :

- Fiber Reinforced Plastic (FRP) Composite skins
- Expanded polystyrene (EPS) foam core
- Commercial aluminium extrusions 6063 T5
- 16ga. G-90 galvanized steel end caps in conformity with ASTM A653

2.2 Reference product : Thermostop™ TechShield II (2" thick) or Thermostop™ TechShield IV (4" thick), as manufactured by THERMOSTOP INC., 3775 Losch boulevard, Longueuil, (Québec), Canada, J3Y 5T7, Tel.: 450-678-8666, Fax: 450-678-7765, www.thermostop.com

2.3 Dimensions and clearances :

<u>Quantity</u>	<u>Dimensions</u>	<u>Clearances</u>
	(height x length)	(floor to first obstruction)

2.4 Panel construction: The panel is made with Fiber Reinforced Plastic (FRP) Composite skins strengthened with an Expanded Polystyrene) (EPS) foam core.

2.5 Panel thickness and insulation value: The TechShield II thickness is 2" (50mm) with a R-8 insulation value while the TechShield IV thickness is 4" (100mm) with a R-16 insulation value.



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- 2.6 Joint and seal:** the airtight joint is equipped with a double integral bubble seal.
- 2.7 Thermal conductivity:** there is no thermal conductivity as the door is made with FRP (Fiber Reinforced Plastic) composite skins.
- 2.8 Finish:** Smooth finish, white. Optional painted finish with choice of color from the RAL color chart.
- 2.9 Window:** Standard size 24'' x 12''. 1) Type B: black square frame. Double acrylic 1/8''(3mm) – 1/8''(3mm) sealed glazing. 2) Type E: square corner white frame. Clear 1/8''(3mm) - 1/8''(3mm) thermal sealed glass.
- 2.10 Perimeter weather seal:** triple-lip, flexible PVC weather seal, held with a heavy-duty extruded aluminum retainer.
- 2.11 Bottom weather seal:** U-shaped, flexible PVC double weather seal, held with a heavy duty extruded aluminum retainer (double U-rubber seal for TechShield IV).
- 2.12 End caps:** Sections are equipped with 16ga. (1.42mm) thick galvanized steel end caps.

PART 3 – HARDWARE

Recommended models for 10 000 cycles springs:

- Up to 12'0'' (W.) x 12'0'' (H.): Hardware model 80-T
(see brochure **Hardware – Thermostop Industrial Doors**)
- Up to 16'0'' (W.) x 16'0'' (H.): Hardware model 80-THD
(see brochure **Hardware – Thermostop Industrial Doors**)

For more than 10 000 cycles springs and door size of more than 16'0'' (W.) x 16'0'' (H.), please consult with Thermostop Inc.

PART 4 – ELECTRICAL OPERATOR AND ACCESSORIES

- 4.1** The door will be equipped to be operated either by :
- manually with a handle and a sash cord
 - or manually with a handle and a pull chain
 - or with a chain hoist, recommended for doors over 12' (W.) x 12' (H.)
 - or with an electric operator
- 4.2 Electric operator:** Centrally mounted “Trolley” motor (for standard lift or low headroom tracks only) and side mounted “Jackshaft” motor.

Recommended models for 10 000 cycles springs:

- Up to 12'0'' (W.) x 12'0'' (H.): electric motor XTRA-H
(See Operators – Thermostop Industrial Doors)
- Up to 16'0'' (W.) x 16'0'' (H.): electric motors XTRA-HHD
(See brochure **Operators – Thermostop Industrial Doors**)

For electric accessories and their corresponding options such as push button control stations, radio controls, magnetic loop detector, motion detector, safety edge, utility switch, time delay, closing timer etc., please consult brochure **Operators – Thermostop Industrial Doors**.



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PART 5 – INSTALLATION

- 5.1** Install doors and hardware in accordance with manufacturer's standards.
- 5.2** Touch-up doors with primer where galvanized finish is damaged during fabrication.
- 5.3** Install electrical motors, controller units, push button stations, relays and other electrical equipment required for door operation.
- 5.4** Lubricate springs and adjust door operating components to ensure smooth opening and closing of doors.
- 5.5** Adjust weather stripping to form weather tight seal against the elements.