

**STANDARD SPECIFICATIONS
THERMOSTOP CRYSTAL
Section 08 36 13**

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 21 psf with a maximum horizontal deflection of 1/120 of opening width
- Closed tubular aluminum extrusions
- Male-female tongue-and-groove joint

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 Material:

- Commercial anodised 6063 T5 aluminium extrusions
- Anodized finish:
 - clear: to meet AAM12C22A31 standard
 - color: to meet AAM12C22A34 standard

2.2 Reference product: Thermostop Crystal, 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> (height x length)	<u>Clearances</u> (floor to first obstruction)
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2.4 Panel manufacturing process: Manufacturing process: All tubular extrusions are assembled by means of full-length through bolts. Welding shall not be permitted in any part of the process.

2.5 Joint and seal: High quality galvanized steel or aluminum skins roll formed into an exclusive tongue-and-groove joint equipped with a foam weather seal.

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

2.6 Thickness:

2" (50mm) thick.

2.7 Extrusions dimensions:

- intermediate vertical mullion: 1 3/4" (44 mm)
- end vertical rail: 2 5/8" (67mm) or 5 3/8" (137mm)
- top horizontal rail: 2 5/8" (67mm) or 5 3/8" (137mm)
- bottom horizontal rail: 2 5/8" (67mm) or 5 3/8" (137mm)
- male horizontal rail: 1 1/8" (29mm)
- female horizontal rail: 1 1/2" (38mm)

2.8 Glazing: Glazing sealed with watertight closed-cell foam tape and securely retained in place with a rigid vinyl snap-on moulding.

Options:

- 1/8" (3mm) single glass
- 5/8" (16mm) sealed glass
- tinted glass
- tempered glass
- polished wire glass
- low-E glass
- SDP-16 polycarbonate

2.9 Finish: Standard clear anodized finish for aluminum extrusions. Optional 1) color anodized finish 2) shop painted, color to be selected from the SICO or the RAL color chart.

2.10 Reinforcement: When required, the horizontal members shall be adequately reinforced with integral reinforcing fins. No steel reinforcing struts shall be permitted.

2.11 Perimeter weather seal: triple-lip, flexible PVC weather seal, retained in an extra robust extruded aluminum retainer.

2.12 Bottom weather seal: U-shaped, flexible PVC weather seal, retained in a heavy duty extruded aluminum retainer, securely fastened to the bottom of the door.

PART 3 – HARDWARE

High quality 2" hardware, model 50-T.

3.1. Tracks: 2" (50mm) vertical and horizontal tracks formed from 14ga. (1.80mm) thick galvanized steel. Vertical tracks shall be taper-mounted for a "wedge-tight" closing.

3.2. Rollers: 2" (50mm) in diameter and equipped with 1/4" (6mm) diameter ball bearings running in hardened inner and outer racers. Roller stem shall be heavy cold rolled steel.

3.3. Hinges: 13ga. (2.10mm) thick galvanized steel graduated to ensure a weather tight closing at the jambs. Door with width greater than 14' 0" (4267mm) shall be equipped with double end hinges.

3.4. Springs: Oil tempered, helically wound and designed to suit the weight of each door and withstand a minimum of 10,000 cycles (open/close) over its life.

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 with an electric operator
- 4.2** **Electric operator:** Centrally mounted “Trolley” Marantec motor. Silent belt-driven operator, made in Germany.
- 4.3** **Standard accessories:** remote control (one) and security photo cell.
- 4.4** **Optional accessories:** keypad, wall control panel, etc.

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.