



ISO 9001 : 2008



Section 08348

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

**STANDARD SPECIFICATIONS**  
**SoundSentry STC 34**  
Section 08348 Acoustic Steel Door & Frame Assembly

**PART 1 – GENERAL**

**1.1 Works by others:**

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

**1.2 Design criteria:** Design doors with STC 34 (Sound Transmission Class) as per ASTM E-413 standard (Classification for Rating Sound Insulation).

**1.3 Shop drawings:** 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 with section 01300.

**1.5 Warranty: SoundSentry** acoustic doors carry a warranty of one (1) year against any defect or faulty workmanship.

**PART 2 - PRODUCT**

**2.1 Materials:**

- Commercial galvanized G-60 steel to ASTM A653
- Commercial aluminium extrusions 6063 T5
- Insulation: foamed- in- place polyurethane, 2.56 lbs/ft<sup>3</sup>(41.0 kg/m<sup>3</sup>) minimum density, conforming to CGSB 51-GP-21M

**2.2 Reference product: SoundSentry STC 34**, as manufactured by **THERMOSTOP INC.**, 3775 Losch boulevard, Longueuil, (Quebec), Canada, J3Y 5T7, Tel.: 450-678-8666, Fax: 450-678-7765, [www.thermostop.com](http://www.thermostop.com)

**2.3 Sound Transmission Class (STC) 34** in conformity with ASTM E-413 (Classification for Rating Sound Insulation).

**2.4 Thickness:** 4" (100mm) thick.

**2.5 Panel manufacturing process:** The inner core consists of rigid polyurethane, foamed-in-place under high pressure between two 20ga. steel skins.

**2.6 Insulation:** CFC-free rigid foamed-in-place polyurethane. 2.56 lbs/ft<sup>3</sup> (41.0 kg/m<sup>3</sup>) minimum density

**2.7 .Metal skins and finish:** 20 ga. steel skins. Smooth finish with ribs. Standard white. Option (extra) of custom paint with choice of color from the RAL color chart.



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- 2.8 Joint and seal:** High quality galvanized steel skins roll-formed into an exclusive tongue-and-groove joint with a true thermal break of 2 3/4" (68 mm) separates the exterior skin from the interior one and a double bubble-shaped seal.
- 2.9 Perimeter gasket system:** triple-lip, flexible PVC gasket seal, retained in an extra robust extruded aluminum retainer.
- 2.10 Bottom gasket seal:** double u-shaped, flexible PVC gasket seal, retained in a heavy duty extruded aluminum retainer, securely fastened to the bottom of the door.
- 2.11 End caps:** Sections are equipped with 16ga. (1.42mm) thick galvanized steel end caps.

### **PART 3 – HARDWARE**

3" industrial hardware, model 80-T.

### **PART 4 – ELECTRICAL OPERATOR AND ACCESSORIES**

- 4.1** The door will be equipped to be operated either :
- manually with a handle and a pull chain
  - manually with a chain hoist, recommended for doors over 12' (W.) x 12' (H.)
  - or with an electric operator
- 4.2 Electric operator:** side mounted "Jackshaft" motor, model XTRA-HHD.

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**.

### **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.