



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

## STANDARD SPECIFICATIONS

### SoundSentry STC 47

#### Section 08 34 74 Sound Control Door Assemblies

#### 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 47 (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 section 01300.

**1.5 Warranty:** SoundSentry STC 47 acoustic doors carry a warranty of one (1) year against any defect or faulty workmanship.

#### PART 2 - PRODUCT

##### **2.1 Materials:**

- Commercial galvanized G-90 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, conform to CGSB 51-GP-21M

**2.2 Reference product:** SoundSentry STC 47, 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) 47** in accordance 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 sound dampening acoustic material and rigid polyurethane, foamed-in-place under high pressure between two 16ga. steel skins.

**2.6 Insulation:** R-32 insulation value.

**2.7 Metal skins and finish:** 16ga. steel skins. Smooth finish. Custom paint with choice of color from the RAL color chart.



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- 2.8 **Joint and seal:** Sound-tight tongue-and-groove joint with a double bubble-shaped seal.
- 2.9 **External perimeter gasket system:** triple-lip, flexible PVC gasket seal, retained in an extra robust extruded aluminum retainer.
- 2.10 **Internal wall compression seal:** Heavy-duty wall compression seal ensures sound tight perimeter soundproofing
- 2.11 **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.
- 2.12 **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**

The door will be equipped with an electric operator.

- 4.1 **Electric operator:** side mounted “Jackshaft” motor, model XTRA-HHD or XTRA-GHC, as per design criteria.

For electric accessories, please consult **Operators – Thermostop Industrial Doors** brochure.

### **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.