



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

STANDARD SPECIFICATIONS
SoundSentry STC 40
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 40 (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 40 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 conforming to ASTM A653
- Commercial aluminium extrusions 6063 T5
- Insulation: foamed- in- place polyurethane, 2.56 lb/ft³ (41.0 kg/m³) minimum density, conform to CGSB 51-GP-21M

2.2 Reference product: SoundSentry STC 40, as manufactured by **THERMOSTOP INC.**, 3775 Losch boulevard, Longueuil, (Quebec), Canada, J3Y 5T7, Tel.: 450-678-8666, Fax: 450-678-7765, www.thermostop.com

2.3 Sound Transmission Class (STC) 40 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 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:** 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.