

# Product Data and Submittal Sheet

## STC Box Seal™

Project Information

### Product Description

The **BOX SEAL™** by STC Sound Control is a wall plate gasket for recessed electrical outlet boxes that forms an acoustical seal against the transfer of sound. It is molded from specially compounded neoprene in similar size and configuration as a cover plate for a recessed device. It fills the gaps between the outlet box and the cover plate and is held tightly against the wall surface by the cover plate. The Box Seal™ has been issued US Patent No. 9,496,695.

### Applications

**NOISE CONTROL:** The **BOX SEAL™** maintains STC-62 or higher; see website for details. For composite analysis, for 1-gang back-to-back outlets: STC-19 for unsealed, STC-26.2 for sealed, with an improvement of 7.2 dB. Use the Box Seal wherever acoustical privacy and noise control are valued. It is ideal for new construction as well as renovation.

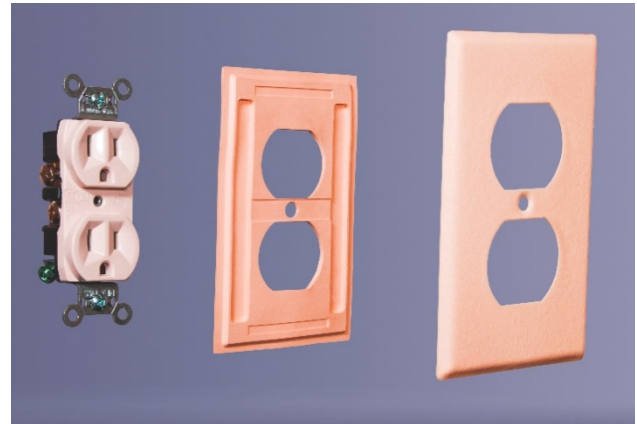
- Apartment units, Condominiums
- Hotel rooms and bathrooms
- Conference rooms, Personnel offices
- Consultation rooms, Medical exam rooms
- Classrooms, Band Rooms
- Fabrication areas, Laboratories
- Mechanical equipment rooms

**FIRE PROTECTION:** Use the **BOX SEAL™** with the STC Intumescent Insert™, an electrical box insert certified and listed by UL as a wall opening protective material. The insert can be used for outlets in 1-hour fire-rated partitions to meet the “24-inch rule” (IBC 714.3.2 Exception 1.5).

### Specifications

*Include in Section 262726 “Wiring Devices”:*

**Wall Plate Gasket:** Manufacturer's standard sound-isolating molded neoprene formed to fit the electrical device and outlet box. Effectively increases the STC of outlet boxes by 7 dB, demonstrated by testing representative assemblies per ASTM E90 (Small Scale Test).



### Installation

Verify that the edge of the outlet box does not protrude beyond the face of the wall. Place wall plate gasket over exposed outlet box flush with wall surface and with device protruding through opening in seal. Secure in place with wall plate fasteners.

### Availability

**Color:** Light Almond

**Compatibility:** All Box Seals fit NEMA devices and wall plates made by Hubbell, Leviton, Lutron, Mulberry Metal, Pass & Seymour/Legrand. Cooper plates for duplex receptacles are not recommended.

### Configurations:

- One-Gang Duplex Receptacle
- One-Gang Toggle Switch
- One-Gang Decora (Rocker Switch, GFCI, Motion Detector)
- One-Gang Single Data/Phone
- One-Gang Double Data/Phone
- One-Gang Four Data
- One-Gang Blank
- Two-Gang Duplex Pair
- Two-Gang Toggle Pair
- Two-Gang Duplex/Toggle
- Two-Gang Decora Pair
- Two-Gang Duplex/Decora
- Two-Gang Decora/Toggle
- Two-Gang Blank

The Box Seal is available directly from our website [www.stcsoundcontrol.com](http://www.stcsoundcontrol.com) or phone (716) 839-0900.

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### Performance & Typical Physical Properties

*Nominal Thickness:* 1/8-inch

*Surface Burning (ASTM E84):* Class A

*Sound Transmission (ASTM E90):* Increases STC of recessed outlets from STC-19 to STC-26 for back-to-back outlets (NGC-3012001).

Consider the typical hotel room with carpeted floor, gypsum board walls and ceiling, and two beds, totaling 109 sabins, and having a demising wall of 135 sf with five outlets in it. The effective STC of any partition cannot be better than STC-47 because of the amount of sound passing through the five unsealed outlets. Putty pads are not nearly as effective as the Box Seal™ and plateau at STC-48 compared to STC-51 as shown on the chart. The Box Seal™ is recommended for any partition of STC-45 or higher to maintain the best overall performance of the acoustical separation.

#### Maintenance

No maintenance is expected. The STC Box Seal™ may be removed to access wiring or finish wall surfaces; reinstall with the wall plate.

#### Limitations

None.

#### Safe Handling Information

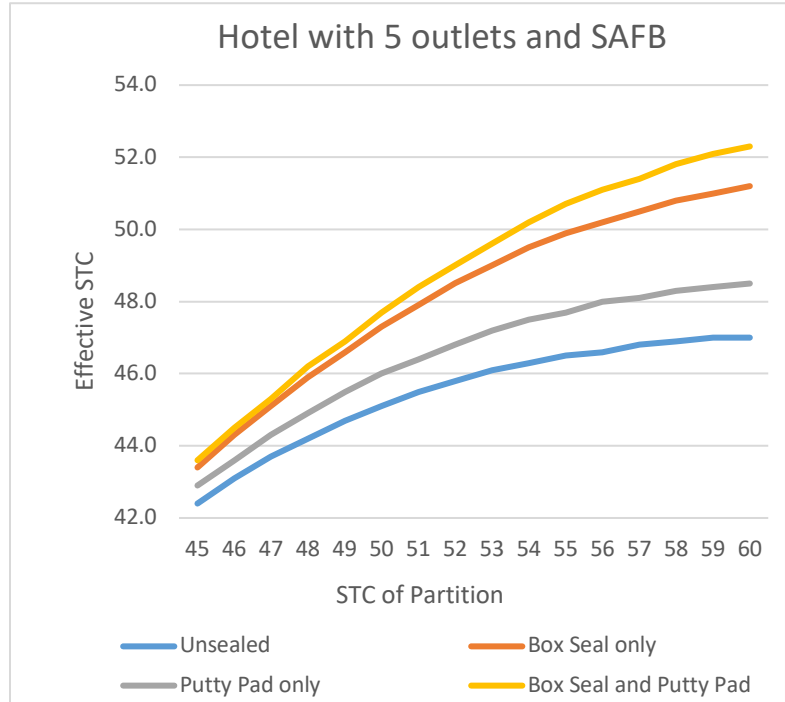
No special precautions required. Consult the Material Safety Data Sheet (MSDS) for complete information.

#### Important Notice to User:

Many factors will determine field results including number and location of outlets in the room separation, presence of other sound flanking paths such as communicating doors and the quantity of sound absorption (sabins) in the receiving room. Refer to actual sound test reports and analysis for this and any other noise control product.

#### Warranty:

STC Architectural Products warrants that the Box Seal will be free from defects in material and manufacture. STC makes no other express or implied warranties.



Approval Stamp