



A BETTER SOLUTION FOR SOUND & FIRE CONTROL IN OUTLETS


- Higher acoustical performance
- Lower cost per outlet
- Retrofit for code upgrade
- No sticky mess
- Evident compliance (not hidden)

The STC BOX SEAL™ is a patented neoprene rubber gasket designed to reduce sound that passes through recessed electrical outlets and into adjoining rooms. Combined with the STC INTUMESCENT INSERT™ (sold together), the solution also provides the fire protection that building codes require for these outlets.




WHY ELECTRICAL OUTLETS MUST BE SEALED

SOUND CONTROL



When noise becomes or is expected to become an issue, the instinctive response is often to build a thicker wall. However, sound travels readily through flanking paths like recessed outlet boxes, which are essentially holes in the wall. Building a thicker partition won't solve the problem. Rather, the holes need to be sealed.

FIRE PROTECTION



Partitions not only isolate rooms from noise, but also protect rooms from the spread of fire. When electrical outlets are recessed into these partitions, and outlets on opposite sides of the wall are within 24-inches of each other, building code (IBC 714.3.2) requires special protective measures for these outlets to prevent fire from spreading.



Building code requires fire partitions to be 1-hour fire rated as separations for dwelling units in apartments, condominiums, and assisted living facilities, as well as for sleeping rooms in hotels and dormitories.

These are the **same partitions** where sound control is desired, and often required by code.

CHALLENGES OF MARKET STANDARD SOLUTIONS

The most common solution for providing fire protection in electrical outlets is a **putty pad**.

When it comes to sound however, malleable clay provides almost **no resilience for sound isolation**; it is only the additional mass of putty pads that provides some acoustic benefit: 3 dB at most.

Meanwhile, putty pads require an inspection since they are hidden in the wall. They can also fall off undetected, and cannot be installed once the partition is completed.

Luckily, STC Sound Control provides a better solution ...

THE STC ADVANTAGE

The **STC BOX SEAL™** & **STC INTUMESCENT INSERT™** remove the mess and hassle of putty pads by providing two single-component units that easily fit into the electrical box. Together, they provide better sound isolation, and the same level of fire protection as putty pads. They can also be easily verified by inspection, even after the partition is constructed. The resulting solution is **simpler, higher-performance, and just as cost-effective:**

SIMPLE



Just fit the **STC BOX SEAL** around the device and use a screwdriver to secure it in place with the wall plate. For the **STC INTUMESCENT INSERT**, simply remove the adhesive cover strip and apply to the inside rear surface of the box device.

HIGH-PERFORMANCE



A 7dB improvement in the sound rating of the outlet with the seal translates to noticeable sound reduction from adjoining rooms, especially for high-STC partitions. Meanwhile, a 1-hour fire rating from the insert provides all the fire protection that is required.

COST-EFFECTIVE



STC Intumescent Inserts are sold at lower prices than competitors' inserts or putty pads. Sold as a set together with the **STC Box Seal**, the total cost for both is lower or comparable to that of most other inserts or putty pads.

SOUND CONTROL



Calculated projections, lab tests, and field tests all show that the **Box Seal** improves the value for the **outlet** from **STC-19** to **STC-26**: a 7dB improvement that translates to significant sound isolation performance of the separation. Looking at the overall partition, the **STC Box Seal** can bring the total effective sound isolation value to **STC-62** and higher.

FIRE CONTROL



The **STC INTUMESCENT INSERT™** is a single-component fire rated pad that, when exposed to fire, expands to form a char that will seal off the opening, prevent the spread of flames, and limit temperature rise on unexposed surfaces.

It is certified and listed by UL as a wall opening protective material, and can be used for outlets in 1-hour fire-rated partitions to meet the "24-inch rule."

CONFIGURATIONS & MORE INFO

OUTLET SIZE		
BOX SEAL	One-Gang	Two-Gang
	Duplex Receptacle	Duplex Pair
	Toggle Switch	Toggle Pair
	Decora	Decora Pair
	Single Data/Phone	Duplex/Toggle
	Double Data/Phone	Duplex/Decora
	Four-port Data	Decora/Toggle
	Blank	Blank
BOX TYPE		
INTUMESCENT INSERT	Single (2x3)	Double (4x4)
	Single Insert	Double Insert

We provide solutions for the most common outlet/box configurations. Visit our website or reach out to us directly to find out more.

**Contact us
 via web, phone, or email
 below.**