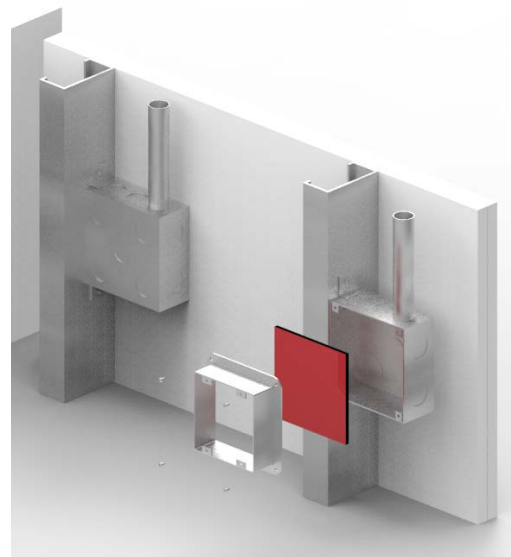# SpecSeal® EP Powershield™ Electrical Box Insert

SpecSeal® EP

SpecSeal® EP Powershield™ electrical box insert is a one-component pad for use in electrical switch or receptacle boxes. The intumescent insert has been designed to install inside the box, directly against the back wall. SpecSeal® EP Powershield™ electrical box inserts expands a minimum 24 times its original size when exposed to high temperatures or flames.

Requiring no tools, SpecSeal® EP Powershield™ electrical box inserts are conveniently sized to fit typical switch or outlet boxes and features an adhesive strip applied to the back of the pad to ensure adhesion to the back of an electrical box. SpecSeal® EP Powershield™ electrical box inserts are easily applied into an existing box with no mess or residue.

Applications

SpecSeal® EP Powershield™ electrical box inserts are used to protect an electrical box and maintain fire-resistance ratings of wall assemblies, when the horizontal separation between metallic boxes on opposite sides of the wall is less than 24 in (610 mm), the size of the box exceeds 16 in^2 (103 cm^2), or the area of such openings does exceed 100 in^2 (645 cm^2) for any 100 ft^2 (9.3 m^2) of enclosure wall area. See CLIV for more information.

Specifications

The firestopping insert pad shall be a one-part intumescent material requiring no tools or curing time. The pad, when exposed to high temperatures or flames, shall provide a minimum of 24X free expansion and shall contain no water-soluble expansion ingredients. The insert pad shall be UL Certified and tested to the requirements of UL263.

Specified Divisions

Division 7	07 84 00	Firestopping
Division 7	07 84 13	Penetration Firestopping
Division 26	26 00 00	Electrical

Performance

SpecSeal® EP Powershield™ electrical box inserts are the basis for systems that meet the exacting criteria of UL263 (ASTM E119, NFPA 251) and are UL Certified for up to 2 hrs as a Wall Opening Protective Material (Category CLIV) for use with metallic outlet or switch boxes installed in gypsum wallboard wall assemblies. Boxes protected with SpecSeal® EP Powershield™ electrical box inserts have been successfully tested on steel studs with the box spacing reduced to less than 24 in. (610 mm). Boxes may be installed back to back when SpecSeal® EP Powershield™ electrical box inserts are used in conjunction with SpecSeal® SSP Putty Pads. See CLIV for more information

Features & Benefits

- Easy to install in the field or in the shop
- No mess, no residue, no clean-up required
- Rapid expansion - quickly seals off the passage of fire and smoke
- High volume char - minimum to 24x
- Water resistant - no soluble or hygroscopic ingredients
- Conveniently sized - fits common switch and receptacle boxes
- Non-conductive - safe for use inside box
- Easy retrofit - can be used for boxes installed in existing walls
- Low profile - maximizes area inside box
- Labor savings - installs before or after wallboard installation

Limitations

This product has been designed to be safe with plastics. It has been used extensively and successfully with various types of plastic pipes, tubes, and plastic cable insulations. Variations in these materials, however, make it impossible to guarantee compatibility. STI strongly recommends that the user consults with the pipe, tubing, or cable manufacturer in question regarding any known sensitivities or potential restrictions before applying this product.

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SpecSeal® EP Powershield™ Electrical Box Insert

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EP

PHYSICAL PROPERTIES	
Color	Red
Catalog Numbers & Dimensions:	EP44: 3-3/4" (95 mm) x 3-3/4" (95 mm) x 1/8" (3 mm) EP45: 4-1/2" (114 mm) x 4-1/2" (114 mm) x 1/8" (3 mm) EP55: 4-7/8" (124 mm) x 4-7/8" (124 mm) x 1/8" (3 mm)
Weight	EP44: 0.09 lbs (0.04 kg), EP45: 0.13 lbs (0.06 kg), EP55: 0.15 lbs (0.07 kg)
Volume	EP44: 1.75 cu in (28.7 cu cm), EP45: 2.53 cu in (41.5 cu cm), EP55: 2.97 cu in (48.7 cu cm)
Expansion Begins	350°F (177°C)
Expansion Range	350°F (177°C) to greater than 1,000°F (538°C)
Volume Expansion	16x to 24x (free expansion)
In Service Temperature	Less than 130°F (54°C)
Storage Temperature	Less than 130°F (54°C)
Oven Aging*	No Change (60°C)
Humidity Exposure*	No Change (60°C, 98% R.H.)
STC Rating (ASTM E 90-04)	64 (Relates to specific construction)
Shelf Life	No Limit

*Evaluation of physical properties and total expansion.

Maintenance

Inspection: Installations should be inspected periodically for subsequent damage. Any damaged inserts should be replaced using SpecSeal® products per the original approved design.

System Selection

To find your firestop system or create a submittal, visit https://systems.stifirestop.com/ to use System Search & Submittal Builder. You may also visit the UL Online Certifications Directory/UL Product iQ™ for complete listings. (Firestop Systems).

Technical Service

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL System designs suitable for submittal or specification purposes are available on request. A complete library of technical information is provided at the company's website www.stifirestop.com including Safety Data Sheets (SDS's).

Precautionary Information

Consult Safety Data Sheet (SDS) for additional information on the safe handling and disposal of this material. Wash areas of skin contact with soap and water. Avoid contact with eyes.

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Specified Technologies Inc. • Somerville, NJ 08876 • Technical Service 1-800-992-1180 • www.stifirestop.com
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EP

Availability

SpecSeal® EP Powershield™ electrical box inserts are available from Specified Technologies Inc. (STI) authorized distributors. For additional purchasing and technical information or for the names and locations of the nearest representative and/or distributor, regarding this and other Specified Technology products, please call 1-800-992-1180 or visit www.stifirestop.com.

Catalog Number	UPC Number	Size	(UOM) Qty.	Case Qty.	Weight (Each)
		ORDERING INFORMATION			
EP44	730573025000	3-3/4" (95 mm) x 3-3/4" (95 mm) x 1/8" (3 mm)	1	20	0.09 lbs (0.04 kg)
EP44-Bulk	730573025017	3-3/4" (95 mm) x 3-3/4" (95 mm) x 1/8" (3 mm) Bulk	N/A	600	0.09 lbs (0.04 kg)
EP45	730573025055	4-1/2" (114 mm) x 4-1/2" (114 mm) x 1/8" (3 mm)	1	20	0.13 lbs (0.06 kg)
EP45-Bulk	730573025062	4-1/2" (114 mm) x 4-1/2" (114 mm) x 1/8" (3 mm) Bulk	N/A	450	0.13 lbs (0.06 kg)
EP55	730573025550	4-7/8" (124 mm) x 4-7/8" (124 mm) x 1/8" (3 mm)	N/A	250	0.15 lbs (0.07 kg)

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