

Online Certification Test

The purpose of this written exam is to qualify the cabling professional with the concept of "Firestopping by the Numbers." Let's see if you understand the concept and can apply its theory in a few scenarios. **Certifications will be awarded for 100% scores only.** We recommend that you print the test out using the printable version above. Complete the printed test using the website as you would an open book test. Then come back and submit your answers online. It will be graded and you will be contacted. Please retain your written test in case we need further review, you may be asked to resubmit your answers. Call the factory with any questions... (Mike Sr.)

To be listed on our map of Certified Experts, you must be employed by a company in the cable installation business, firestop contractor, engineer, architect, or wire/cable distributor. **Only 1 Corporation listing may be posted in each city. PLEASE ONLY SUBMIT YOUR TEST ONE TIME. If you do not hear from us in (3) working days, call us.**

Required fields are in red. These fields must be filled in in order to process this test form.	
Student Info (Certification to be issued to the INDIVIDUAL.)	Business Info (Required to be on the Installers page. List your home address if not currently employed. This is where your cert. will be sent to.)
Name <input type="text"/>	Business Name <input type="text"/>
Phone <input type="text"/>	Address Line 1 <input type="text"/>
Email <input type="text"/>	Address Line 2 <input type="text"/>
	City <input type="text"/> ST <input type="text"/> Zip <input type="text"/>
	Phone <input type="text"/>
	Website <input type="text"/>
<h2>Scenario 1: Retrofit</h2> <p>Joe from "Joe's Hospital Group" calls your office. He is concerned about some cables penetrating fire rated walls and saw you listed as a Certified Installer on the Unique Fire Stop website. The Joint Commission will pay him a visit soon and he is about to panic. He</p>	

is interested in the Split sleeve System. Can you help him? Joe has (50) Cat 5 UTP cables that are routed through a fire wall with (4) sheets of 5/8" fire rated gypsum. The cables are .20" in diameter. The holes look a lot like the first picture on the Split Sleeve System Installation Pictorial. Use "Firestopping by the Numbers" to answer the following questions:

1. What is the rating of the barrier?

- 2 hours.
- 3 hours.
- 1 hour.
- It does not matter.

2. Which UL System did you select for this job?

- W-L-3232
- W-L-3234
- F-A-3019
- No need for a UL System.

3. What % cable load is permitted with this listing?

- Fill it up!
- 38%
- 70%
- 48%

4. How much intumescent putty should be packed in the ends?

- 1/2 inch.
- 1 inch.
- 2 inches.
- No need for putty.

5. Does the listing require mineral wool batt insulation as packing?

- Yes.
- No.

6. What size Split Sleeve did you spec for this job?

- SSS-1
- SSS-4
- SSS-2
- Whatever is the cheapest.

7. How will you go about seeking pre-approval from the AHJ?

- A phone call.

- A fax.
- An email.
- Download and submit the AHJ request for consideration in such a way as to insure I get a copy of the "approved" document.

8. Why should you take a digital photo when finished?

- Looks professional.
- Protect me from others misusing my system.
- For fun.

9. What is a MSDS?

- Material Sure Does Shine
- Material Safety Data Sheet
- Material Specification Data Sheet
- Material Specifications & Description Sheet

10. What are the dimensions of the SSS-4 washers?

- 4 inches square.
- 6 square inches.
- 7 inches square.
- 9 square inches.

Scenario 2: New Installation - Horizontal

Joe is calling again. Now he is installing new cables and would like for you to install the Sleeve Systems for his job. He is running (100) Cat 5E cables measuring .25" each, through a cinder block wall. The wall is not reinforced with concrete or steel rebar. Use "Firestopping by the Numbers" to answer the following questions:

1. What is the rating of the wall?

- 1 hour.
- 2 hours.
- 3 hours.
- Rating is not important if intumescent putty is used.

2. What type and size system did you select for this installation?

- 1" Split Sleeve System
- 2" Threaded Penetrator
- 4" Smooth Penetrator

Membrane Penetrator

3. What UL System did you select?

W-L-3231

W-J-3109

W-L-3109

F-A-3019

4. what % cable load is allowed with the UL System you selected?

48%

34%

70%

Fill it up with cables.

5. How much intumescent putty is required to seal the end of the Sleeve System?

1 inch.

2 inches.

3 inches.

Pack it full of putty.

6. How many additional .25" cables may be installed later?

1

10

20

100

Scenario 3: New Installation - Vertical

Joe from Joe's Hospital Group is expanding their offices to include running cables between floors. You must core drill and route (175) Cat 5 cables vertically between floors. The cables are .20" in diameter. This is a metal pan, poured with a 3" slab of concrete. Please do "Firestopping by the Numbers" to spec this job and answer the questions below:

1. What system have you selected for this job?

Smooth Penetrator

Threaded Penetrator

Split Sleeve

Membrane Penetrator

2. What UL System have you selected?

- W-L-3230
- F-A-3091
- F-A-3019
- W-J-3109

3. What is the part# Sleeve System will you use?

- TP-1
- TP-2
- TP-4
- TP-5

4. How much mineral wool is required as a minimum?

- 1 inch.
- 2 inches.
- 3 inches.
- 4 inches.

5. What size core drill will you bore for the 4" Threaded Penetrator?

- 2 inches.
- 4 inches.
- 4 1/2 inches.
- 5 inches.

6. How much putty is required as a minimum? READ the listing...many people miss this question.

- 1/2 inch.
- 1 inch.
- 2 inches.
- 3 inches.

Scenario 4: New Installation - Membrane Penetration

Joe is perplexed about routing cables inside his fire rated walls from the ceiling grid. He has on many occasions just popped a hole in the drywall and dropped his cables in and fished them out. NOW, the State Fire Marshal will require the membrane penetration be done with a "tested " System AND he (the Fire Marshall) wants the existing membrane penetrations retrofitted. Think about this for a moment and answer the questions below:

1. Individual workstation downtime is not an issue. How will you retrofit existing penetrations?

- Cut the cables and pull new ones inside a Membrane Penetrator.
- Un-terminate at the jack, pull the cables out, route them through a Membrane Penetrator, fish them back in and re-terminate.
- Install a bead of caulk and hope the Inspector will pass it.
- Fill the hole with sheet rock mud.

2. What UL System did you select?

- W-L-2330
- W-J-3230
- W-L-3230
- F-A-3019

3. What hardware, supplied with the System, is required to attach the Membrane Penetrator to the wall?

- Putty.
- Caulk.
- Expanding anchors.
- Sheet rock mud.