

## EXPLANATION OF UL SYSTEM NUMBERS

Due to changes originating from Underwriters Laboratories, Inc.® (UL), all Through-Penetration Firestop Systems have been assigned a UL alphanumeric system number. The purpose of this system is to enable the identification of the Firestop Systems using:

1. A letter signifying the **type of building construction** being penetrated.
2. A letter or group of letters further identifying the **significant characteristics of the building construction**.
3. A sequential number to **identify the system**.

### 1. Type of Building Construction

The first letter will be one of three letters designating: “F” — when floors are being penetrated, “W” — when walls are being penetrated or “C” — when both floors and walls could be penetrated.

### 2. Significant Characteristics of the Building Construction

The second letter grouping will include one or more of the following letters to further identify the significant characteristics of the building construction as follows:

- A** = Concrete floors with a minimum thickness less than or equal to 5 inches
- B** = Concrete floors with a minimum thickness greater than 5 inches
- C** = Framed floor
- D** = Deck construction
- E through I** = (Reserved for future use)
- J** = Concrete or masonry walls with a minimum thickness less than or equal to 8 inches
- K** = Concrete or masonry walls with a minimum thickness greater than 8 inches
- L** = Framed walls
- M** = Bulkheads
- N through Z** = (Reserved for future use)

### 3. Sequential number to identify the system

The following range of numbers will be used to further identify the type of penetrating item:

<u>Number Range</u>	<u>Penetrating Item</u>
0000 - 0999	None
1000 - 1999	Metal pipe, conduit or tubing
2000 - 2999	Nonmetallic pipe, conduit or tubing
3000 - 3999	Cables
4000 - 4999	Cables in cable trays
5000 - 5999	Insulated pipe
6000 - 6999	Miscellaneous electrical penetrants
7000 - 7999	Miscellaneous mechanical penetrants
8000 - 8999	Mixed penetrations containing any of the penetrating items
9000 - 9999	Reserved for future use

PENETRATING ITEM	CONCRETE	GYPSUM WALL	WOOD FLOOR
Blank Openings	CAJ 0001-0999 CBJ 0001-0999 WJ 0001-0999	WL 0001-0999	FC 0001-0999
Metallic Pipe	CAJ 1001-1999 CBJ 1001-1999 WJ 1001-1999 FA 1001-1999 FB 1001-1999	WL 1001-0999	FC 1001-0999
Non Metallic Pipe	CAJ 2001-2999 CBJ 2001-2999 WJ 2001-2999 FA 2001-1999 FB 2001-2999	WL 2001-0999	FC 2001-0999
Electrical Cable	CAJ 3001-3999 CBJ 3001-3999 WJ 3001-3999 FA 3001-3999 FB3001-3999	WL 3001-0999	FC 3001-0999
Cable Tray	CAJ 4001-4999 CBJ 4001-4999 WJ 4001-4999 FA 4001-4999	WL 4001-0999	
Insulated Metal Pipe	CAJ 5001-5999 CBJ 5001-5999 WJ 5001-5999 FA 5001-5999	WL 5001-0999	FC 5001-0999
Busway	CAJ 6001-6999 CBJ 6001-6999 FA 6001-6999	WL 6001-6999	
Ducts	CAJ 7001-7999 CBJ 7001-7999 WJ 7001-7999	WL 7001-0999	FC 7001-0999
Mixed Items	CAJ 8001-8999 CBJ 8001-8999 FA 8001-8999 WJ 8001-8999	WL 8001-0999	FC 8001-0999
Electrical Boxes	CLIV	CLIV	

## CONSTRUCTION JOINTS

	Floor to Floor	Floor to Wall	Wall to Wall	Head of Wall
<b>Static</b>	<b>FFS</b>	<b>FWS</b>	<b>WWS</b>	<b>HWS</b>
2" or less	FFS 0000-0999	FWS 0000-0999	WWS 0000-0999	HWS 0000-0999
>2" and max 6"	FFS 1000-1999	FWS 1000-1999	WWS 1000-1999	HWS 1000-1999
>6" and max 12"	FFS 2000-2999	FWS 2000-2999	WWS 2000-2999	HWS 2000-2999
>12" and max 24"	FFS 3000-3999	FWS 3000-3999	WWS 3000-3999	HWS 3000-3999
>24"	FFS 4000-4999	FWS 4000-4999	WWS 4000-4999	HWS 4000-4999
<b>Dynamic</b>	<b>FFD</b>	<b>FWD</b>	<b>WWD</b>	<b>HWD</b>
2" or less	FFD 0000-0999	FWD 0000-0999	WWD 0000-0999	HWD 0000-0999
>2" and max 6"	FFD 1000-1999	FWD 1000-1999	WWD 1000-1999	HWD 1000-1999
>6" and max 12"	FFD 2000-2999	FWD 2000-2999	WWD 2000-2999	HWD 2000-2999
>12" and max 24"	FFD 3000-3999	FWD 3000-3999	WWD 3000-3999	HWD 3000-3999
>24"	FFD 4000-4999	FWD 4000-4999	WWD 4000-4999	HWD 4000-4999