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Listed Firestop Systems Naming Conventions

The purpose of this technical bulletin is to explain how listed firestop systems are named. A firestop system is established after the completion of a successful fire test. The system name will be dependant upon which laboratory performed the testing and is listing the system. The most commonly used systems are from Underwriters Laboratories (UL). A system listed with UL will include the building assembly, through penetration or joint description, and the installation details of the firestop system (includes product, installation details, and any backing materials).

UL Through Penetration Systems: (Ex: C-AJ-1302)

First Alpha Component - Describes what is being penetrated ("C")

- F: Floor Penetration Only
- W: Wall Penetration Only
- C: Floor or Wall Penetration

Second Alpha Component - Describes the Substrate ("AJ")

- A: Concrete Floor; 5 in. thick or less
- B: Concrete Floor; 5 in. thick or greater
- C: Framed Floor
- D: Steel Decks in Marine Vessels
- E: Floor/Ceiling Assembly Consisting of 2 1/2 in. Thick Concrete
- J: Concrete or Masonry Walls, 8 in. thick or less
- K: Concrete or Masonry Walls, 8 in. thick or more
- L: Framed Walls (Gypsum Wall Assemblies)
- N: Composite Panel Walls

Numeric Component - Describes Penetrating Item ("1302")

- 0000 – 0999: No Penetrating Item (Blank Openings)
- 1000 – 1999: Metallic Pipe, Conduit or Tubing
- 2000 – 2999: Nonmetallic Pipe, Conduit or Tubing
- 3000 – 3999: Electrical Cables
- 4000 – 4999: Cable Trays with Electrical cables
- 5000 – 5999: Insulated Pipes
- 6000 – 6999: Misc. Electrical Penetrants (Ex: Bus Ducts)
- 7000 – 7999: Misc. Mechanical Penetrants (Ex: Air Ducts)
- 8000 – 8999: Multiple or Mixed Penetrations

Examples:

- **C-AJ-1302** - Single metallic pipe penetrating either a 5 in. thick or less concrete floor or a 8 in. thick or less concrete wall.
- **F-C-2147** – Single non metallic pipe penetrating a framed floor assembly
- **W-L-3318** – Cables penetrating a gypsum wall assembly

UL Joint Systems (Ex: WW-D-1050)

First and Second Alpha Components – Describe type of joint (“WW”)

- FF: Floor to Floor
- WW: Wall to Wall
- FW: Floor to Wall
- HW: Head of Wall
- BW: Bottom of Wall
- CG: Corner Guard

Third Alpha Component – Describes Movement Capabilities (“D”)

- S: Static System
- D: Dynamic System

Numeric Component – Indicates the nominal width of the joint (“1050”)

- 0000 – 0999: joint is 2 in. or less
- 1000 – 1999: joint is greater than 2 in. and less than or equal to 6 in.
- 2000 – 2999: joint is greater than 6 in. and less than or equal to 12 in.
- 3000 – 3999: joint is greater than 12 in. and less than or equal to 24 in.
- 4000 – 4999: joint is greater than 24 in.

Examples:

- WW-D-1050 – Wall to wall dynamic joint with a nominal joint size between 2 in. and 6 in.
- FF-D-0042 – Floor to floor dynamic joint with a nominal joint size less than 2 in.

Perimeter Fire Containment Systems (Ex: CW-D-2043)

First and Second Alpha Components – Describe type of joint (“CW”)

- CW: Curtain Wall (Fire rated floor and a non fire rated exterior curtain wall)

Third Alpha Component – Describes Movement Capabilities (“D”)

- S: Static System
- D: Dynamic System

Numeric Component – Indicates the nominal width of the joint (“2043”)

- 0000 – 0999: joint is 2 in. or less
- 1000 – 1999: joint is greater than 2 in. and less than or equal to 6 in.
- 2000 – 2999: joint is greater than 6 in. and less than or equal to 12 in.

Examples

CW-D-2043 – Curtain wall dynamic joint with a nominal joint size between 6 in. and 12 in.

Another test laboratory that lists our systems is Intertek Testing Services and they have a different naming system than UL. An Intertek system will show the assembly type, the hourly rating and the firestop system but the type of penetration and assembly thickness cannot be determined from the system name. These system names will also include the company name.

Examples:

TL/PH 60-01 – Tremco Horizontal Penetration, 60 minutes

TL/PV 120-05 – Tremco Vertical Penetration, 120 minutes

TL/PHV 120-02 – Tremco Horizontal or Vertical Penetration, 120 minutes

Please contact Tremco Technical Service at 866-209-2404 with any questions regarding this bulletin.