

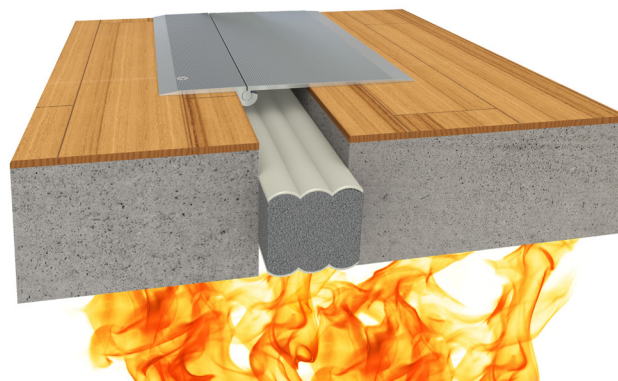
990 3 Hour Fire Rated Foam Seal Series

990H3-Floor to Floor

990H3-Floor to Wall

990V3-Wall to Wall

990V3-Wall to Corner



Movement Rating $\pm 25\%$

Product Guide



Thermal



Exterior



Weather
Resistant



Fire Rated
Option

- Typical system is supplied with one silicone-coated face. Uncoated and dual face coatings are also available.

P/N example	Coating Style
J990x3-xxx	Single Sided (Standard)
J990x3-xxx DS	Dual Sided
J990x3-xxx UC	Uncoated

- Provides a 3 hour fire rating in accordance with UL-2079 and ULC-5115.
- System meets $\pm 25\%$ movement requirements.
- 990 system does not rely on the silicone face for its rating. The foam is impregnated with fire retardant material, meaning the rating is not compromised due to vandalism or damage to the silicone face.
- Seal material is UV stable, and resistant to solvents.

- Single pick-resistance face optional, standard colors: Limestone, Tru-White. (custom colors available)
- Fire foam seals are water tight and also have sound attenuation qualities.
- Capable of handling vertical and horizontal joint movement.
- Open cell foam is constantly self-expanding, allowing system to maintain a watertight seal while undergoing rapid joint movement.
- 990 foam seal is supplied to field pre-compressed in lengths of 6-1/2' [2m].
- System is available in 13 standard colors (custom colors available)

Application	System	Joint Width		Seal Height/ Depth		Movement \pm	
		US	mm	US	mm	Compression/Expansion	
990H3 Floor/Floor- Floor/Wall	990H3-050	1/2"	13	4"	102	1/8"	3
	990H3-100	1"	25	4"	102	1/4"	6
	990H3-150	1 1/2"	38	4"	102	3/8"	10
	990H3-200	2"	51	4"	102	1/2"	13
	990H3-250	2 1/2"	64	4"	102	5/8"	16
	990H3-300	3"	76	4"	102	3/4"	19
990V3 Wall/Wall Wall/Corner	990V3-050*	1/2"	13	4"	102	1/8"	3
	990V3-100*	1"	25	4"	102	1/4"	6
	990V3-150*	1 1/2"	38	4"	102	3/8"	10
	990V3-200*	2"	51	4"	102	1/2"	13
	990V3-250*	2 1/2"	64	4"	102	5/8"	16
	990V3-300*	3"	76	4"	102	3/4"	19

*Vertical joints require concrete substrate to meet UL listing, fire rating does not apply to gypsum/cement board construction

IPC.1585/REV.2

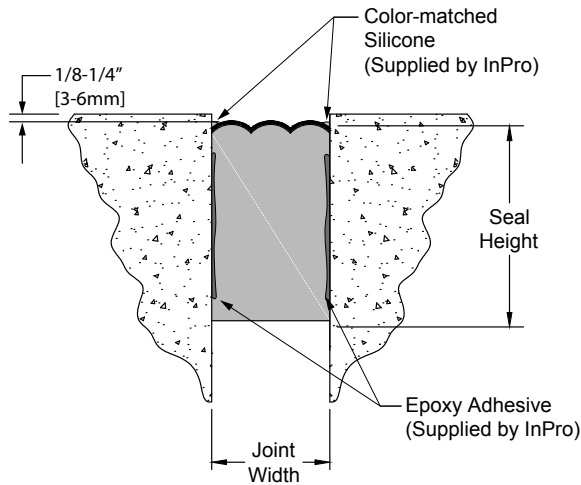
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JOINTMASTER™
EXPANSION JOINT SYSTEMS

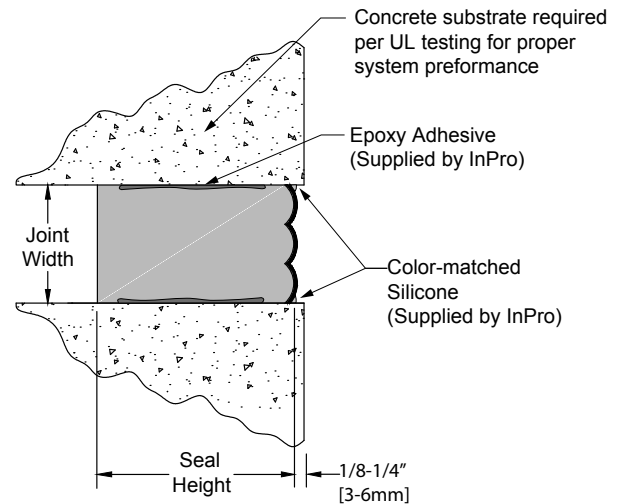
990H3/V3 Fire Rated Foam Seal Series

3 Hour Fire Rated Foam Seal Systems

990H3 Series Floor/Floor
(990H3-250 System Shown)



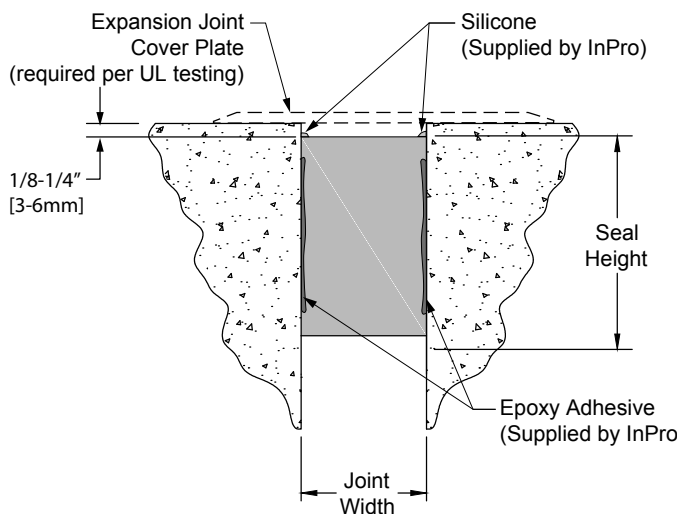
990V3 Series Floor/Floor
(990V3-250 System Shown)



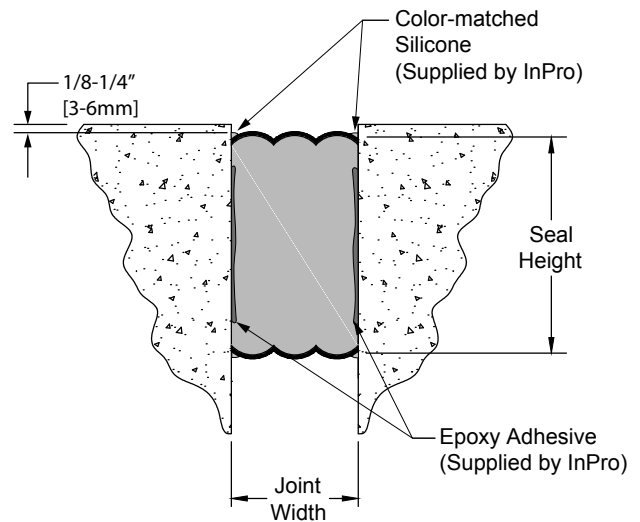
990H3/V3 Series

System Options

990H3 Floor/Floor Uncoated
(990H3-250 UC)



990H3 Floor/Floor Dual Sided
(990H3-400 DS)



900 Series Fire Barrier

Suggested Specifications

PART 1 - GENERAL

1.01 SUMMARY

- A. Furnish Fire Barrier Systems in accordance with the drawings and general provisions of the Contract.

1.02 WORK INCLUDED

- A. Furnish complete JointMaster/InPro Corporation Expansion Joint Systems.
1. Interior floor expansion joint systems.
 2. Interior wall expansion joint systems.
 3. Interior ceiling expansion joint systems.
 4. Roof expansion joint systems.
 5. Exterior wall expansion joint systems.
 6. Exterior floor expansion joint systems.
 7. Parking deck expansion joint systems.

1.03 RELATED WORK

- A. Related work which is specified elsewhere.
1. Cast-In-Place Concrete: Section 03300.
 2. Unit Masonry: Section 04810.
 3. Structural Steel: Section 05120.
 4. Light Gage Metal Framing: Section 05400.
 5. Roof Expansion Assemblies: 07716.
 6. Sheet Metal Flashing and Trim: Section 07620.
 7. Cement Plaster: Section 09210.
 8. Gypsum Wallboard: Section 09260.

1.04 REFERENCES

- A. Publications listed herein are part of this specification. The criteria established in the specifications shall take precedence over the standards referenced herein.
1. Fire Rated Assemblies shall meet requirements of Underwriter's Laboratories, in accordance with [ANSI/U.L. NO. 263 and ASTM E 119/E 814] [UL 2079] [including hose stream test at full rated period]. Underwriter's Laboratories shall classify assemblies. Fire rating shall be not less than the fire rating of adjacent construction.

1.05 DEFINITIONS

- A. Define industry and product terms as necessary.

1.06 SYSTEM DESCRIPTION

- A. Joint systems shall permit limited movement of joint without disengagement.
1. Specify x-axis joint movement (horizontal).
 2. Specify y-axis joint movement (vertical).
 3. Specify z-axis joint movement (lateral, where applicable).

1.07 QUALITY ASSURANCE

- A. Manufacturer: Furnish Fire Barrier Systems from one (1) manufacturer with a minimum of five (5) years of experience in the design, engineering and fabrication of Fire Barrier Systems.
- B. Installer: Firm with not less than three (3) years of successful experience in the installation of systems similar to those required by this project and acceptable to the manufacturer of the system.

1.08 SUBMITTALS

- A. Manufacturer's specifications, technical data, installation instructions, and detail drawings for each Fire Barrier System.
- B. Certificates or other documentation confirming UL approved or equivalent compliance with fire resistance rating of fire barrier assemblies.
- C. Sample of specified systems where required.

1.09 DELIVERY AND STORAGE

- A. Deliver fire barrier systems to jobsite in new, clean, unopened cartons or crates of sufficient size and strength to protect materials during transit.
- B. Store components in original containers in a clean, dry location. Inspect materials upon arrival, monitor for adverse environmental impacts.

1.10 SEQUENCING

- A. Submittals shall be completed and submitted within a reasonable amount of time after award of subcontract.
- B. Subcontract for the work of this section shall be planned to allow sufficient time for manufacturer's production and delivery scheduling.

1.11 WARRANTY

- A. Standard JointMaster/InPro Corporation limited warranty against material and manufacturing defects for a period of not less than three (3) years when installed in accordance with manufacturer's recommendations.

PART 2 - PRODUCTS

2.01 MANUFACTURER/DISTRIBUTOR

- A. JointMaster/InPro Corporation
580 W18766 Apollo Drive
Muskego, WI 53150 USA
Phone: (800) 222-5556
Fax: (888) 715-8407
Email: service@inprocorp.com
- B. Substitutions: Not permitted.

2.02 MATERIALS

- A. Mineral Wool (925): Preformed, semi rigid, non-combustible mineral/rock wool.
- B. Insulated Wool (935): Non-combustible, semi rigid, textile fiberglass with fiberglass matt facing.
- C. Silicone Sealant: Non-slumping single component smoke resistant silicone sealant.
- D. Sealant: Slumping and non-slumping single component water based sealant.
- E. Insulation: Ceramic blanket (950/975) or intumescent ceramic blanket (900).
- F. Foam (990/995): Open cell polyurethane.
- G. Galvanized Steel: 20 gauge (900) or 24 gauge (950) and 22 gauge (chase cover only).
- H. Stainless Steel Foil (where applicable): 304 0.2 mils.
- I. Shear Screen (optional, 900 and 950): Stainless steel mesh.
- J. Ceramic Fibrous Woven Material (975 only).

2.03 FIRE BARRIER SYSTEMS FOR HORIZONTAL AND VERTICAL APPLICATIONS

- A. JointMaster 925 Series – Mineral Wool and Sealant:
1. Mineral Wool: Preformed, semi rigid, non-combustible mineral/rock wool.
 2. Water based fire caulk for horizontal and vertical conditions.
- B. JointMaster 935 Series – Textiled Wool and Sealant:
1. Non-combustible, semi rigid, textile fiberglass with fiberglass matt facing.
 2. Silicone based fire caulk for horizontal and vertical conditions.
- C. JointMaster 950 Series – Fire Blanket:
1. Ceramic blanket insulation encapsulated with stainless steel foil and stainless steel shear screen optional.
 2. 24 gauge flanges are pre-attached for joint widths eight inches and up, they are offered in surface mounted or concealed profile as required.
 3. No caulk required.
- D. JointMaster 975 Series - Fire Blanket:
1. Ceramic blanket insulation encapsulated with ceramic fibrous woven material.
 2. Bottom mount where required.
 3. Water Guard optional.
 4. No caulk required.
- E. JointMaster 990/995 Series – Fire Rated Foam:
1. 990 2 Hr. Fire Rated Foam Seal – 25% Movement:
 - a. Foam joint impregnated with a fire-retardant agent and a UV resistant compound.

- b. System rating is not compromised due to vandalism or damage to the face seal.
 - c. System composed of a monolithically poured body to eliminate delamination of elements.
 - d. Exposed surface can be uncoated, single side coated to enhance waterproofing, and double side coated with pick resistant sealant available on one side.
2. 990 3 Hr. Fire Rated Foam Seal – 25% Movement:
 - a. Foam joint impregnated with a fire-retardant agent and a UV resistant compound.
 - b. System rating is not compromised due to vandalism or damage to the face seal.
 - c. System composed of a monolithically poured body to eliminate delamination of elements.
 - d. Exposed surface can be uncoated, single side coated to enhance waterproofing, and double side coated with pick resistant sealant available on one side.
 3. 995 2 Hr. Fire Rated Foam Seal – 50% Movement:
 - a. Foam joint impregnated with a fire-retardant agent and a UV resistant compound.
 - b. System rating is not compromised due to vandalism or damage to the face seal.
 - c. System composed of a monolithically poured body to eliminate delamination of elements.
 - d. Exposed surface can be uncoated, single side coated to enhance waterproofing, and double side coated with pick resistant sealant available on one side.
 4. 995 3 Hr. Fire Rated Foam Seal – 50% Movement:
 - a. Foam joint impregnated with a fire-retardant agent and a UV resistant compound.
 - b. System rating is not compromised due to vandalism or damage to the face seal.
 - c. System composed of a monolithically poured body to eliminate delamination of elements.
 - d. Exposed surface can be uncoated, single side coated to enhance waterproofing, and double side coated with pick resistant sealant available on one side.
 - G. JointMaster 900/950/975 Series – System Accessories
 1. Chase Covers.
 2. Drainage fittings (optional for 975).

2.04 FABRICATION

- A. Mineral Wool & Sealant Fire Barrier Systems - None required.
- B. Fire Blanket Systems
1. Fire Blanket System may be field-cut, spliced and transitioned according to manufacturer recommendations.
 2. Galvanized Mounting Flanges may be field-cut and spliced according to manufacturer instructions.
- C. 990/995 Fire Rated Foam Seal Systems may be field-cut, spliced and transitioned according to manufacturer recommendations.

PART 3 - EXECUTION

3.01

- A. Verify that structural gap and blockout dimensions are in conformance with manufacturer's submittal data.

3.02 INSTALLATION

- A. Joint systems: Install in accordance with manufacturer's instructions. Align work plumb, level and flush with adjacent surfaces. Allowances should be made where actual structural gap at time of installation varies from nominal design gap.
- B. Factory fabricated transitions available (975 only). See manufacturer's instructions.
- C. Vapor Barrier: Where required, install to manufacturer's instructions. Provide drainage fittings where required.

3.03 PROTECTION AND CLEANING

- A. Protect installation from damage by work of others.

END OF SECTION

IPC.894/REV.4