Fire Barrier Expansion Joint Systems





JOINTMASTER® Expansion Joint Systems

They're not just Expansion Joint Systems.

They're masters of movement.

Acoustic authorities. Waterproofing warriors. Forbidders of Fire. Air and moisture mercenaries. They're on a mission to maintain the integrity of buildings in the face of earthquakes, hurricanes, fires and just plain everyday forces. Often the unsung heroes of building protection, they're built to do what they do every day because that's what it takes to keep people safe.

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Why Inpro®

04 Why Inpro®

06

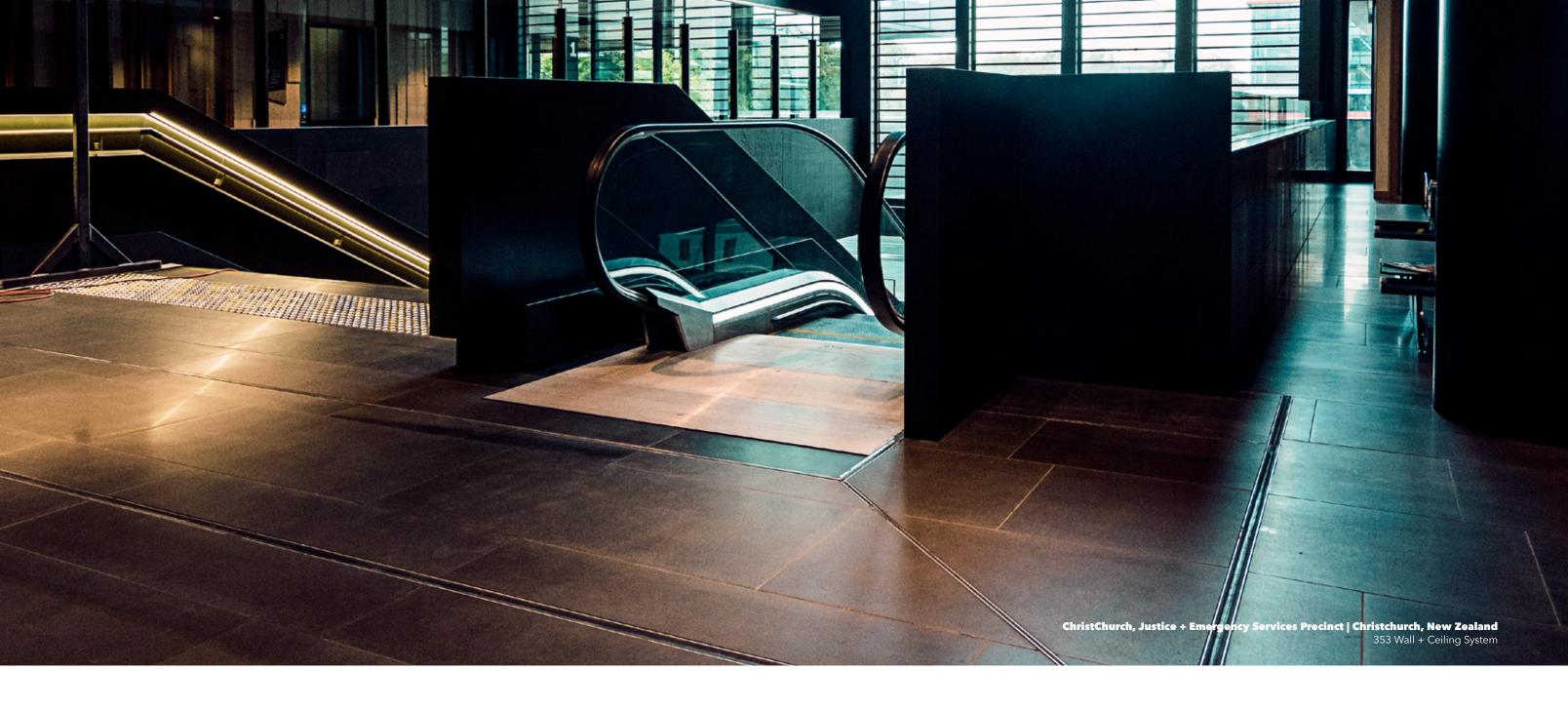
Foam + Compression Seals

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Recent Projects

24 Recent Projects



why inpro.

Our Expansion Joint + Fire Barrier Systems are engineered to handle the unique conditions of your building.

engineered

obsessively

We constantly test and review our systems for continuous innovation to provide you with the best solutions. Yeah we're obsessed, but in a good way.

protected

by design

From ensuring smooth transitions for rolling equipment carts, gurneys and wheelchairs, to preventing the spread of smoke and fire, we integrate building protection right into the product's design.

manufactured

with care

As the manufacturer, we verify that only the best products are shipped out to your project.

Model Number Guide

Understanding product numbers

We've made it even easier for you to place the right system configuration in your next project.

Just visit inpro.com to download our industry leading specifications which are adaptable and easy to work with...just like us!

Series | Model

- 100 Elastomeric Seal Systems for Floors/Walls/Ceilings
- 200 Dual Elastomeric Seal Systems for Floors/Walls/Ceilings
- 300 Glide Plate Seismic Systems for Floors/Walls/Ceilings
- 400 Center Bar Seismic Systems for Floors/Walls/Ceilings
- 500 Seismic Systems for Floors
- 600 Exterior Seismic Systems for Walls and Roofs
- 700 Heavy Duty Seismic Systems for Floors
- 800 Cover Plate Systems for Floors / Walls / Ceilings
- 900 Fire Barrier Systems
- 1000 Exterior Compression Seals
- 1100 Foam Seals
- 1200 Silicone Foam Seals

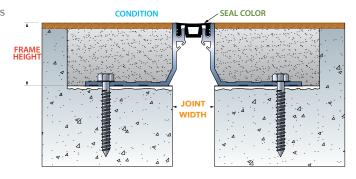
Condition

- A01 Floor to Floor/Roof to Roof
- A02 Floor to Wall/Roof to Wall
- A07 Wall to Wall or Ceiling to Ceiling
- A09 Wall to Corner or Ceiling to Wall
- V18 Ceiling to Wall for Acoustical Ceiling Systems
- V24 Ceiling to Ceiling for Acoustical Ceiling Systems

Joint Width

- 025 1" (25mm)
- 038 1½" (38mm)
- 050 2" (51mm)
- 075 3" (76mm)
- 100 4" (102mm)
- 125 5" (125mm)
- 150 6" (152mm)
- 200 8" (203mm)
- 300 12" (305mm)
- 350 14" (356mm)
- 400 16" (406mm)
- 450 18" (457mm)
- 500 20" (508mm)
- 600 24" (600mm)

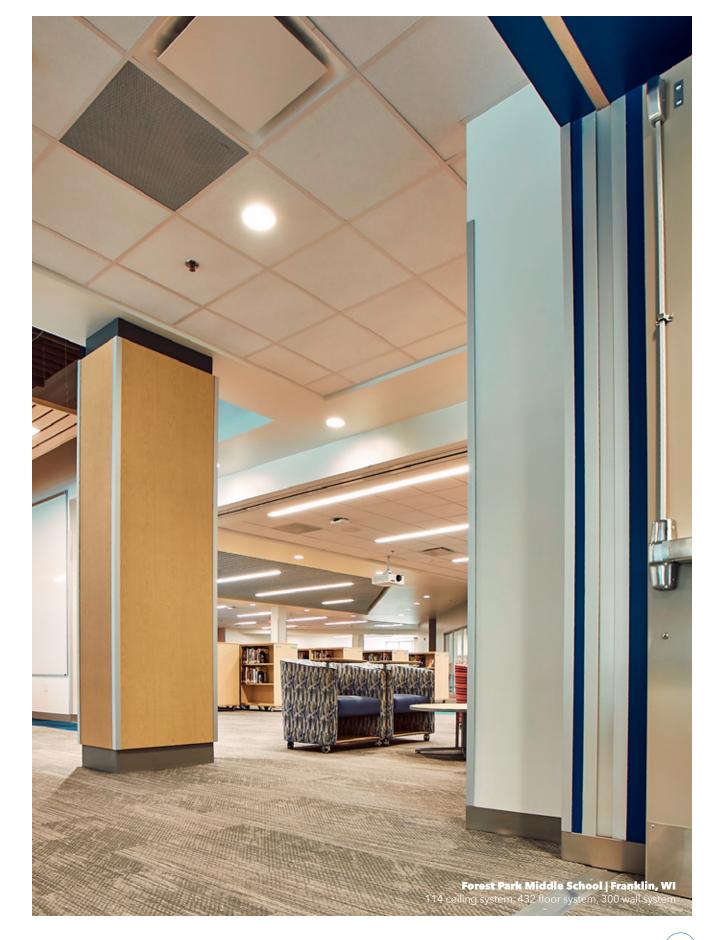




Loading Definitions

Standard/Moderate/Heavy Duty are designations as they relate to load ratings. These are provided as a guideline to assist in making a preliminary product selection for a given application.

- "Standard" suggests use in common applications such as typical office settings or other spaces where pedestrian traffic or occasional rubberwheeled traffic like mail carts and light-weight cleaning equipment, luggage, etc. is the norm.
- "Moderate" suggests applications where occasional heavier maintenance equipment with soft rubber tires (such as gurneys, light duty scissor lifts, motorized cleaning equipment, etc.) would be added to the standard traffic. The systems in this category are comprised of heavier aluminum extrusions, with thicker walled extruded rubber inserts.
- "Heavy Duty" is for applications where truly heavy loads (such as vehicles) or high-point loads (such as mobile medical equipment, coin carts, materials handling equipment, etc.) are the norm. They are capable of multi-directional movements and are also available in surface or blockout mounted variations.



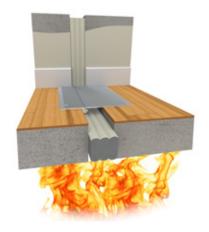
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With lives on the line, there's only one fire barrier you can trust.

Fill the gap between disaster and rescue by filling the gaps in your building with expertly engineered protection



Fire H Moisture Barriers





	Fire Barriers	Moisture + Insulated Barriers	
Page Number	14	22	
Series	Fire Barriers	Moisture Barriers	
Models	140, 520, 921/925, 935, 990/995, Water Guard®	IVB, RVB	
Joint Opening	1"-24" (25mm - 600mm)	1"-24" (25mm - 600mm)	
Movement +/-	25%-80% of Joint Width	50% of Joint Width	

With lives on the line

there's only one fire barrier you can trust.

Fireline® Fire Barriers are the only products of their kind that took on the challenge to improve fire barriers and succeeded. When it comes to protecting your building and the people inside, we make it as easy as possible.

Achieve consistent and efficient installation with patented:

Pre-attached flanges Male/Female connection points Factory made transitions



Fireline®

Fire Barriers

Our Fireline® products are UL tested and approved. Visit our website for more information.

Fire Barriers

Building expansion joint and slab openings inherently create a pathway for fire and smoke to travel and spread throughout the structure. Inpro's broad array of Fire Barrier products provide protection for 1, 2, 3 and 4-hour rated conditions to keep the threat contained.

- **UL 2079 -** Test for fire resistance of building joint systems.
- **ULC S-115** Test for fire resistance of building joint systems for Canadian
- **EN 1366-4** Fire Resistance test for Service Installations. Linear Joint Seals. (Equivalent to BS 476, Part 20). 120 minutes.
- Fireline products are accepted by many local Civil Defense authorities throughout Middle Eastern/GCC Counties. Contact your local Inpro representative for territory specific details.











 $Note: Tested\ product\ configurations\ vary\ by\ region.\ Please\ contact\ your\ regional\ Inpro\ office\ for\ more\ information.$

NEW! Fireline® 140 Fire Barrier



The first fire barrier of it's kind, the Fireline® 140 requires no mechanical fastening. The 140 'springs' into action during installation utilizing our patented spring technology for consistent outward pressure.

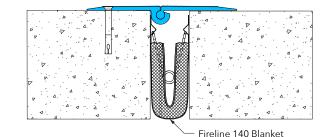
- System sold in 6 ½' (2m) lengths.
- Accommodates floor and wall joints ranging 2-4" (50-100mm) in size.
- 50% +/- seismic movement rating
 Passive Fire barrier system for 1 and 2 Hr. Fire Ratings.
- Inside mount eases installation of any coverplate or chase wall system.
- Tested in accordance with:
- UL 2079/ ULC S-115 "FTH"
- (FTH: Rating Fire, Temperature and Hose) -ASTM-E119/E1399/E1966

U.S. Pat. No. 9,745,597

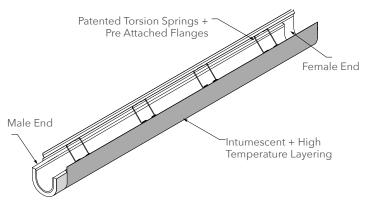
Watch the Installation video on our YouTube page.



*Representative expansion joint system



with Springs

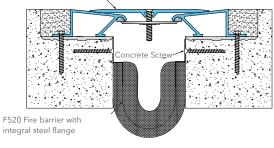


v 520 Fire Blanket



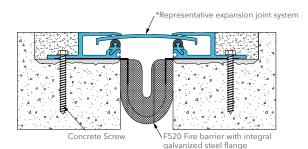
*Representative expansion joint system

consistency and efficiency.

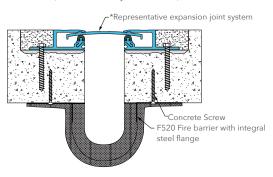


Inside (Recessed) Mount - Floor to Floor (430-A01-100 System Shown)





Top (Flush) Mount - Floor to Floor (300-A01-100 System Shown)



Bottom Mount - Wall to Wall (300-A01-100 System Shown)

the Fireline® 520 system installs 3x faster than other products on the market. This fire barrier installs with

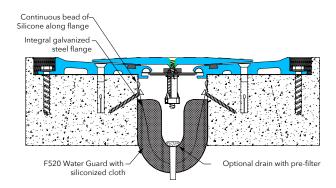
- Accommodates floor and wall joints from 6" (152mm) to 24" (610mm) wide.
- ± 80% movement.
- 1, 2 and 3 hour rated systems available.
- No fire caulk required at splices.
- Single sided installation.
- Mounting configurations available for both wall and floor conditions: - Top (flush) Mount
- Low Profile (recessed) Mount
- Bottom Mount
- Tested in accordance with: UL 2079/ ULC S-115 -ASTM-E119/E1399/E1966.
- View inpro.com/patents to view our patents on the F520.

Watch the Installation video on our YouTube page.

Fireline® Water Guard® Series



Fireline® Water Guard® Series systems are the only fire blankets with a US patented, UL 2079 rated waterproof design. The Water Guard® protects the integrity and performance of the fire barrier from extended exposure to the elements during construction.

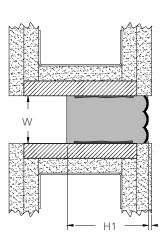


- Straight 4 ft. (1.2M) sections for easy handling.
- 4" 24" Joint Opening (101mm 610mm).
- 1-3 Hour Fire Rating.
- Optional drain tube.
- Available in Top, Inside and Bottom Mount Designs.
- Water Guard Series U.S. Pat. No 8.397.453

990/995 Fire Rated Foam







- System sold in 6 ½" sections (2M).
- Rated Foam offer 2 & 3 hour fire ratings in accordance with UL-2079 (ULCS115S).
- Rated Foams are impregnated with fire retardant materials during the manufacturing process. This alleviates the concerns that any damage to the silicone facing would compromise both the Rating and Waterproofing unlike other foams on the market.
- Foams can provide STC value of 54 for sound attenuation.
- Color options available.
- Foams can be applied to either vertical
- or horizontal applications.

 Available with Pick Resistant Sealant. Contact your representative for more information.

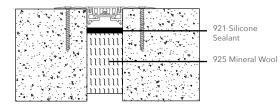
Ensure you specify the foam with the correct characteristics for your project.

- 990 foam meets thermal requirements of 25% +/- movement
- 995 Foam meets seismic characteristics of 50% +/- movement

925 Mineral Wool and Sealant Fire Barrier



- System for joint widths up to 3" (127mm).
 Mineral wool supplied in 4' (1.2m) lengths and compressed into gap for easy installation.
- System accommodates horizontal movement to 20%.
- Up to 3 hour rated meeting UL2079.
- Meets "Hose Stream Test" for masonry walls.



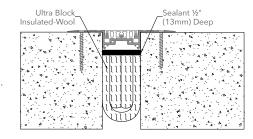
Reactofire Mineral Wool and Silicone Sealant Fire Barrier System (Optional)

2" (50mm) floor system shown (Applied to 106-A01 system)

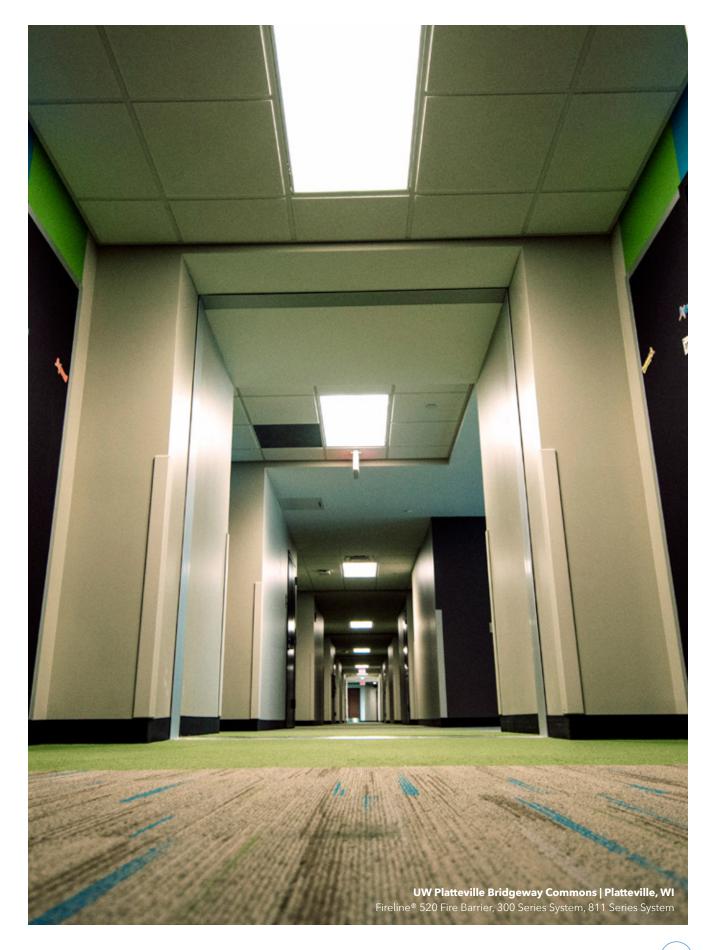
935 Mineral Wool and Sealant Fire Barrier



- System for joint widths up to 5" (127mm).
 System accommodates horizontal movement to 50%.
- Up to 4 hours rated meeting UL2079.
 Mineral wool supplied in linear foot lengths and compressed into gap for easy installation.
 Meets "Hose Stream Test" for masonry walls.
 Concrete installations only.



2" (50mm) floor system shown (Applied to 106-A01 system)



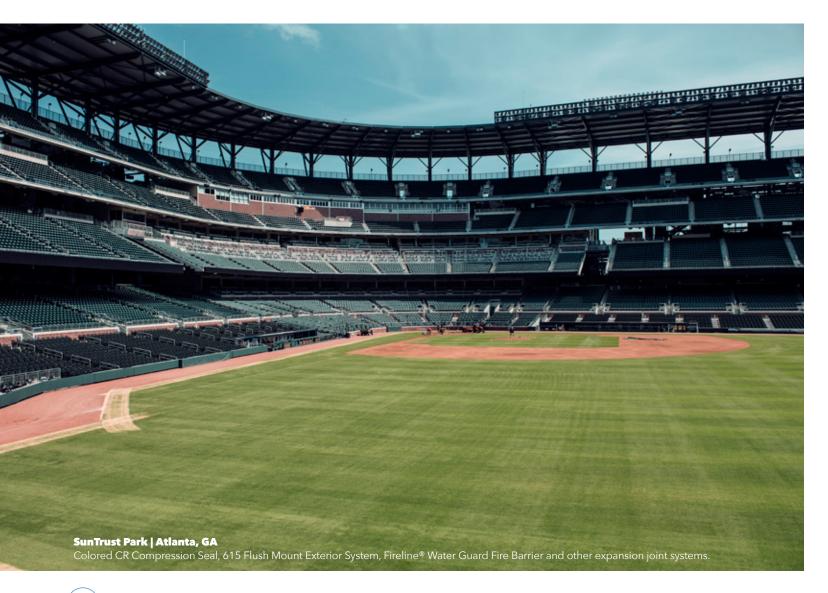
Guard against the biggest threats to fire barriers.

Threat 1: Water

One of the biggest obstacles with traditional fire barriers is that they can never get wet. Many times, fire blankets will arrive before the job site is ready for installation and it must sit out, exposed to the elements. With that type of exposure the barrier will have to be replaced because once the barrier is wet, it is destroyed...unless you're using Water Guard®.

Fireline® Water Guard® Series systems are the only fire blankets with a US patented, UL 2079 rated water proof design. The Water Guard® protects the integrity and performance of the fire barrier from extended exposure to the elements.

No need to worry if the fire barrier is installed for a few days, weeks or months before the building is enclosed. Water Guard® has been utilized in stadium projects where they were installed and exposed to the elements before cover-plate installation.



Threat 2: Poor Installation

A poor installation can result in gaps which will cause a chimney effect, allowing smoke and noxious fumes to spread. Fireline® reduces the margin of error with pre-attached metal flanges for drop-in installation and male/female splices.

Unlike other fire barriers, we've gone to extreme measures to ensure that installation is not only correct, but easy. All Fireline® fire barriers are engineered for one-step, drop-in installation saving time and money.

How Fireline® Fire Barriers Make Installation Easier

Factory Fabricated Splices



Preassembled Transitions



Preattached, Integral Flanges for Drop-In Installation



5 Key Tips for Successful Fire Barrier Installation

- A solid substrate free of voids is critical for securing the fire barrier in place.
 This substrate MUST be of a UL-rated construction type.
- 2. Consider the fire barrier as a complete system. Seams, changes in direction, and multi-layered systems are good places to check first.
- 3. Expansion joint covers matching the tested conditions are a required part of a complete system. Pursue judgments or align your specifications with manufacturers that have completed this for you.
- 4. Inspect test document or request test data when writing specifications to ensure your product can meet the project demands.
- 5. Provide separate details for rated conditions do not utilize canned or boilerplate details that were not developed with barriers specifically in mind.



Moisture Barriers

Moisture Barriers are designed to resist the penetration of moisture through wall, ceiling and floor assemblies of a structure. Inpro® Expansion Joint systems are designed to meet the challenges of keeping the elements where they belong: outside. Our membranes deter air currents and wind-driven rain to ensure the fire barrier stays dry.

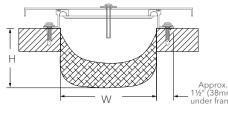
Standard Moisture Barrier

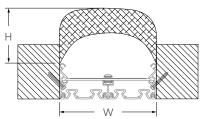


- High performance, fiber-reinforced EPDM membrane.
 Provided in conjunction with any exterior joints, also available as an additional feature to our complete line of products.
 Allows for joint movement matching the requirements of the architectural joint cover.
 Durable .045" (45mil) thick sheet good resists tearing, puncture and wear-through.
- Optional drain tube shown.

Insulated Moisture Barrier





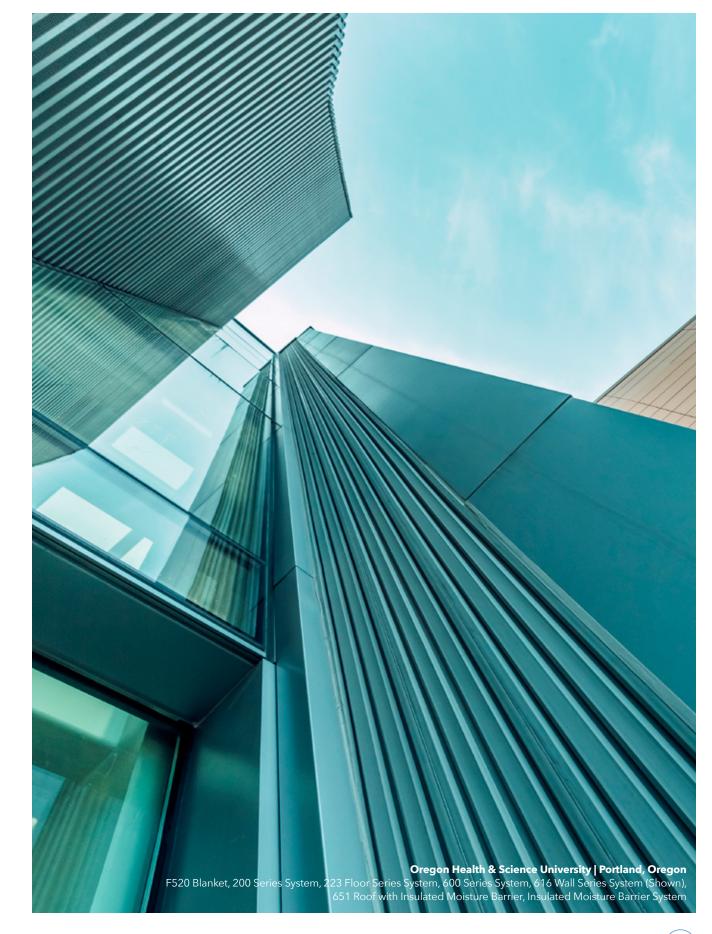


With EJ cover frames

With EJ cover frames

- Exterior grade system capable of matching 50% joint movement.
 Consists of fiber-reinforced EPDM membranes, sandwiching commercial grade insulation, adhered and pinned together to form a seismic-capable assembly.
 Maintains a minimum R-Value of 15.
- Seams and directional transitions designed to ensure a watertight seal and positive condensation drainage.

Application	System		V Width	l Insulated Vapo	l r Barrier Depth	Moven	
		'I———				Compression/Expansion	
		US	mm	US	mm	US	mm
	JL004-IVB	4"	102	5"	127	2"	51
	JL006-IVB	6"	152	5"	127	3"	76
Wall to Wall	JL008-IVB	8"	203	6"	152	4"	102
Wall to Corner	JL010-IVB	10"	254	7"	178	5"	127
Roof to Roof	JL012-IVB	12"	305	8"	203	6"	152
Roof to Wall	JL018-IVB	18"	457	10"	457	9"	229
	JL024-IVB	24"	610	12"	305	12"	305
	JL028-IVB	28"	711	14"	356	14"	356



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Recent Projects

The list below is a sample of projects we've completed across the globe. For more information or detailed project profiles, visit inpro.com/jointmaster.



MGM National Harbor Oxon Hill, MD

Anchorage Museum Phase 2 Anchorage, AK

Weld County Courts Greeley, CO

BCT-H Barracks Complex Fort Carson, CO

LA Coroners Office Los Angeles, CA

McCully District Park Honolulu, HI

Richmond Masonic Temple Richmond, VA

Lake Oswego Water Treatment Plant Portland, OR

Yakama Nation Casino-Exteriors

Toppenish, WA Cinemark Movie Theater

North Haven, CT Kirkwood Public Library

Kirkwood, MO

Village of Paletine Police Department Palatine, IL

Rock County Jail Janesville, WI

Milwaukee Art Museum Milwaukee, WI



World Trade Center New York City, NY

OK State Fairgrounds Expo Center Oklahoma City, OK

Jeanne Bellamah Comm Center Albuquerque, NM

Cross Point Church Oconomowoc, WI

River Spirit Casino Tulsa, OK

Google Tech Corners Bldgs Sunnyvale, CA

Boys & Girls Club @ Shoreline Santa Cruz, CA

Pensacola Regional Airport Pensacola, FL

Jackson Hole Airport Baggage Claim Jackson Hole, WY

SDIA Rental Car San Diego, CA

Lambert Airport Terminal 1 Baggage

Delta Airlines Lobby / ATO Renovation Sea Tac Seattle, WA

St. Mary's Hospital Century Project Grand Junction, CO



Milwaukee Mitchell Airport Milwaukee, WI

Las Vegas VA Hospital Las Vegas, NV

SUMC Nuclear Medicine Dept Standford, CA

Rocky Mtn Hospital for Children

Denver, CO Moab Regional Medical Center

Moab, UT

UNMH Clinical Neuroscience Center Albuquerque, NM

Alaska Regional Hospital Anchorage, AK

Community Hospital of Grand Junction Grand Junction, CO

Rush University Medical Center Chicago, IL

Hospital Expansion & Renovation Laurium, MI

Biloxi VA Mental Health

Jennie Sealy Galveston, TX

Mercy Cancer Center Joplin, MO

Cleveland Clinic Abu Dhabi, UAE



Citrus Bowl





Owensboro Medical Center Owensboro, KY

CLSB - OHSU Life Sciences

Parkland Hospital Dallas, TX

Portland, OR

Abraham Lincoln High School San Fransisco, CA

Dufur School Dufur, OR

Sierra Vista Middle School La Puente, CA

Chemawa Indian School Salem, OR

Jefferson Elementary School West Allis, WI

BSU Student Union Transit Center Boise, ID

Seattle University Fitness Center Seattle, WA

Pima Community College Tuscon, AZ

Purdue Honors College West Lafayette, IN

Santa Clara Univ Phase 2 Student Residence Santa Clara, CA

St. Louis University Residence Hall St. Louis, MO

UW Platteville Platteville, WI

Texas City High School Texas City, TX

Waikiki Shopping Plaza Honolulu, HI

Maui Lani Shopping Center Wailuku, HI

Kelso, WA Harley Davidson of Scottsdale

Three Rivers Mall Regal Theater Connection

Scottsdale, AZ Rusnak MB Arcadia Mercedes-Benz

Arcadia, CA Palos Verde Senior Living

Peoria, AZ

Oakmont Senior Housing Windsor, CA

Forest park Middle School Franklin, WI

Shinola Hotel Detroit, MI

Wrigley Field renovations Chicago, IL

Hamilton Sussex intermediate school Sussex, WI

Austin Bergstrom International Airport (ABIA) Austin, TX



College of San Mateo



Abu Dhabi, UAE

Silver Spot movie theater Brookfield, WI

Salt Lake County Office Building and Parking Structure

Salt Lake City, UT

The District at Milpitas Milpitas, CA

Stanford at Redwood City

Tacoma Art Museum Tacoma, WA Santa Clara Square

Santa Clara, CA AVA at Esterra Park

Redmond, WA

Jefferson Stadium Park Apartments Anaheim, CA

UC San Diego Osler Parking La Jolla, CA

Idaho National Lab

ICD Brookfield Place Dubai, UAE

Nshama Town Square Development Dubai, UAE

inpro.

obsessed with protecting buildings*

How they look. How they function. And how they protect the health and safety of the people who use them every day.

That's why we make hundreds of architectural products all under one roof and work tirelessly to make sure you and your buildings succeed.

Yeah, we are obsessed. But we wouldn't have it any other way.

inpro.com

World Headquarters S80 W18766 Apollo Drive Muskego, WI 53150 USA

IPC® Door + Wall Protection Ascend® Elevator Protection Juniper® Commercial Window Treatments Clickeze® Privacy Systems Endurant® Washroom Systems SignScape® Architectural Signage JointMaster® Expansion Joint Systems









