

ichem®
building solutions



**EXPANSION JOINT
SOLUTION**

ichem® Introduction

ichem® was established in Cairo, Egypt.

Team business with values that include: experience , do the right thing and work hard.

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

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 ichem® classified as a class A contractor and have built a strong reputation and growing business in Egypt.

we are able to undertake multidisciplinary projects of scale and complexity.

Fast growth in business and revenue is a testimony to our proven capability to deliver quality products and services with speed and cost effectiveness.

EXPANSION JOINT
SOLUTIONS

ichem®

Welcome to ichem®

A trailblazer in the construction industry, where innovation, expertise, and unwavering commitment converge to redefine the standards of excellence.

As a distinguished provider of construction solutions, we take pride in delivering cutting-edge products designed to elevate your projects to unprecedented levels of success.



Expansion Joint Solutions

ichem®

A photograph of a modern building with large glass windows and a terrace with blue furniture. The building has a curved facade and a terrace with blue furniture. The sky is cloudy.

ichem®
EXPANSION JOINT

CATEGORY

FLOOR SYSTEMS					
▪ i210	▪ i322	▪ i330	▪ i336	▪ i830	▪ i890
WALL + CEILING SYSTEMS					
▪ i315	▪ i710	▪ i870			
▪ i317	▪ i730				
▪ i370	▪ i820				
▪ i371	▪ i821				
EXTERIOR JOINT SYSTEM					
▪ i110	▪ i424				
▪ i120	▪ i720				
▪ i130	▪ i750				
COMPRESSION SEALS					
▪ iFlex CS					
▪ iFlex CSW					
▪ iFlex CSL					
FIRE + MOISTURE BARRIERS					
▪ FS i1005	▪ iFlex EPDM		▪ ChemSeal PS		
▪ FS i1010	▪ ChemSeal 1		▪ iFlex BR		
▪ iFlex PVC	▪ ChemSeal PU		▪ iFlex RS		



OUR PROJECT

Landmark Sabbour has assigned well-known international companies to design 360 Mall New Cairo, where you can find commercial, administrative, or medical units for sale, in a large area most of it is allocated to green spaces and landscapes, providing stunning views to all units.

Mall Three Sixty New Cairo consists of 11 distinctive buildings with unique divisions of the interior spaces that achieve maximum benefit from units, and each building consists of a ground floor and 3 upper floors, in which the activities of the Mall are separated.

Mall Three Sixty New Cairo is built over 12.5 acres, that has been used well to include multiple activities, services, and facilities.

3' SIXTY



Location	New Cairo
Client	LMD
Consultant	SABOUR
Contractor	LMS
Quantities	7620 M
iChem products used	I320 Floor systems I870 Wall Systems



FLOOR SYSTEM

i210®



Description

The i210® System is a recessed mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 25-150mm.

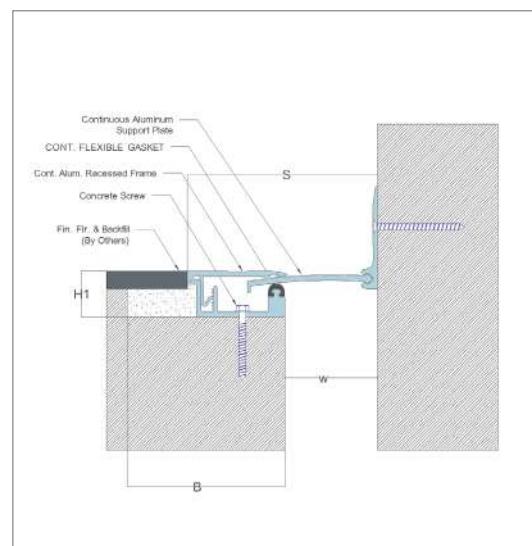
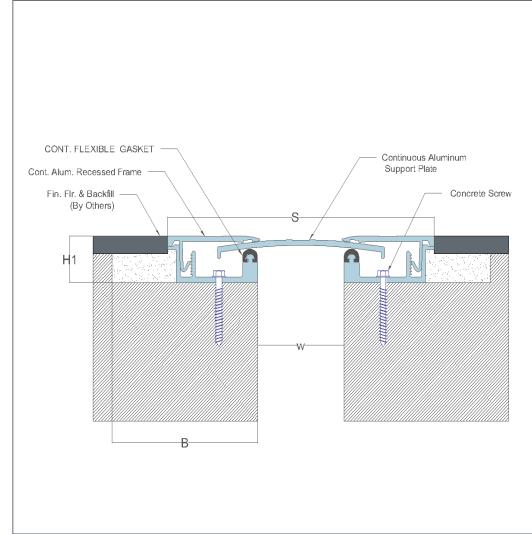
Dual durometer seal provides secure fit and optimal flexibility.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Snap-fit design for easy on site assembly.

Optional vapor barrier Optional fire rated.

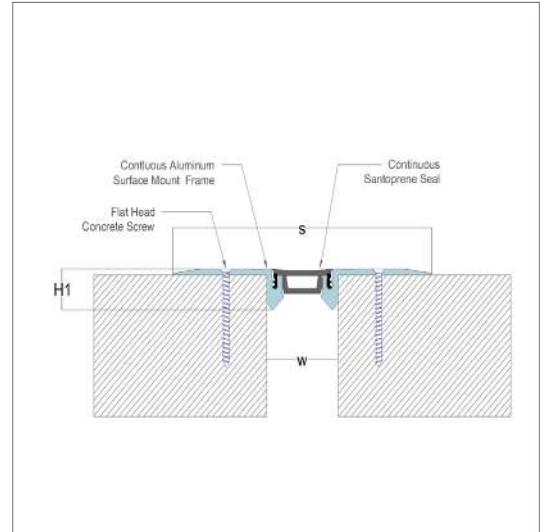
Mill finish aluminum.



Movement ± 50%

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i210-25	25	25	*	125	60	13	6	Pedestrian
	i210-50	50	25	*	155	60	25	13	Pedestrian
	i210-75	75	25	*	275	105	38	19	Pedestrian
	i210-100	100	25	*	300	105	50	25	Pedestrian
	i210-150	150	25	*	350	105	75	37	Pedestrian
Floor/Wall	i210-C-25	25	25	*	75	60	3	3	Pedestrian
	i210-C-50	50	25	*	100	60	10	6	Pedestrian
	i210-C-75	75	25	*	175	105	14	10	Pedestrian
	i210-C-100	100	25	*	200	105	19	13	Pedestrian
	i210-C-150	150	25	*	250	105	30	19	Pedestrian

i314®



Description

The i314® System is a surface mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 25-50mm.

System is ideal for retrofit applications.

Designed to accommodate several different floor finishes such as tile, wood, or concrete.

Easy to clean flush seals, no dirt or water traps.

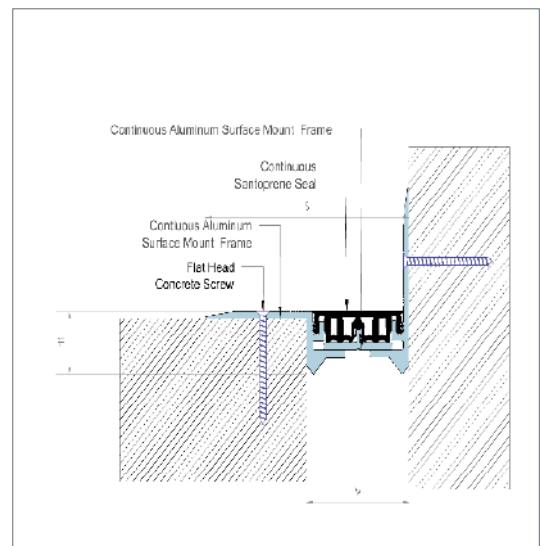
Standard and Custom seal colors available.

Dual durometer seal provides a secure fit and optimal flexibility.

Snap-fit design for easy on site assembly.

Standard loading capabilities.

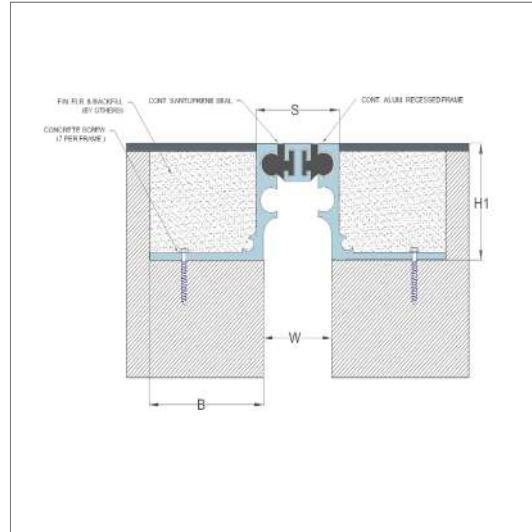
Aluminum mill finish.



Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i314-25	25	16	*	120	*	6	6	Pedestrian
	i314-50	50	25	*	145	*	13	13	Pedestrian
Floor/Wall	i314-C-25	25	16	*	75	*	6	6	Pedestrian
	i314-C-50	50	25	*	95	*	13	13	Pedestrian

i320®



Description

The **i320®** System is a recessed mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/wall.

Joint width: 25-75mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility .

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

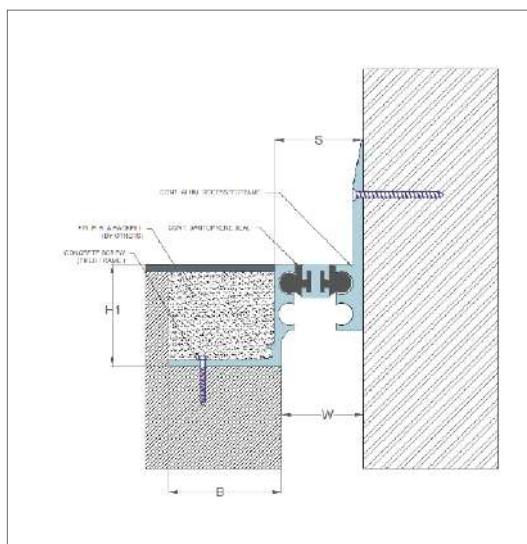
Seamlessly integrates with wall and ceiling systems.

Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

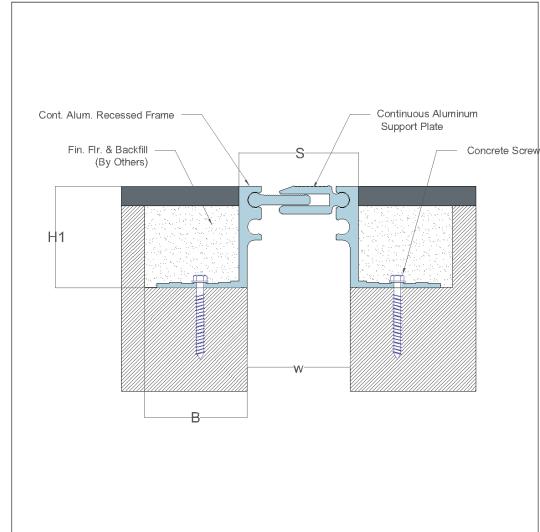
Optional vapor barrier Optional fire rated.



Movement \pm 25%

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i320-25	25	49.4	*	38	48	10	10	Pedestrian
	i320-50	50	49.4	*	60	48	13	13	Pedestrian
	i320-75	75	49.4	*	80	48	19	19	Pedestrian
Floor/Wall	i320-C-25	25	49.4	*	38	48	10	10	Pedestrian
	i320-C-50	50	49.4	*	60	48	13	13	Pedestrian
	i320-C-75	75	49.4	*	80	48	19	19	Pedestrian

i321®



Description

The i321® System is a recessed mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/wall.

Joint width: 25-75mm.

Recessed modular frames for minimal sight line.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems.

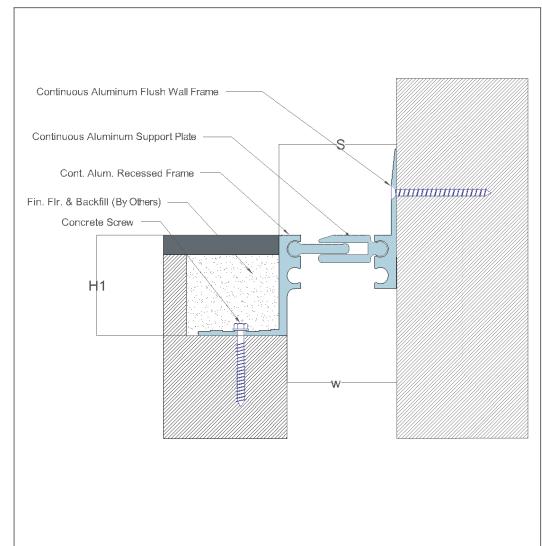
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Optional vapor barrier Optional fire rated.

Mill finish aluminum.



Movement ± 25%

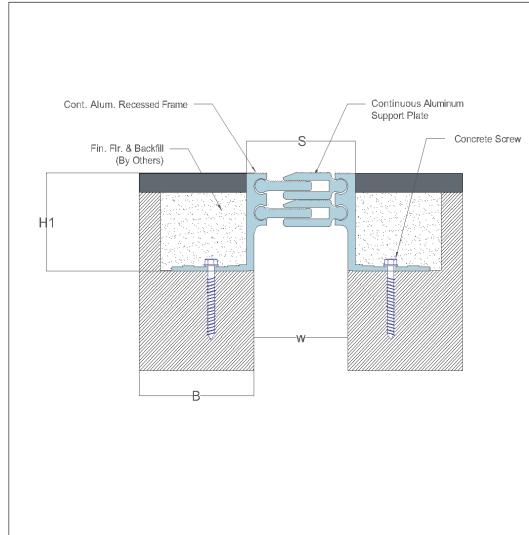
Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i321-25	25	49.4	*	25	48	10	10	Pedestrian
	i321-50	50	49.4	*	58	48	13	13	Pedestrian
	i321-75	75	49.4	*	83	48	19	19	Pedestrian
Floor/Wall	i321-C-25	25	49.4	*	25	48	10	10	Pedestrian
	i321-C-50	50	49.4	*	58	48	13	13	Pedestrian
	i321-C-75	75	49.4	*	83	48	19	19	Pedestrian

i322®



Description

The i322® System is a recessed mount floor expansion joint system. can coordinate with your desired flooring finish.



Key Features

Install Condition: Floor/Floor, Floor/wall.

Joint width: 25-75mm.

Recessed modular frames for minimal sight line.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems.

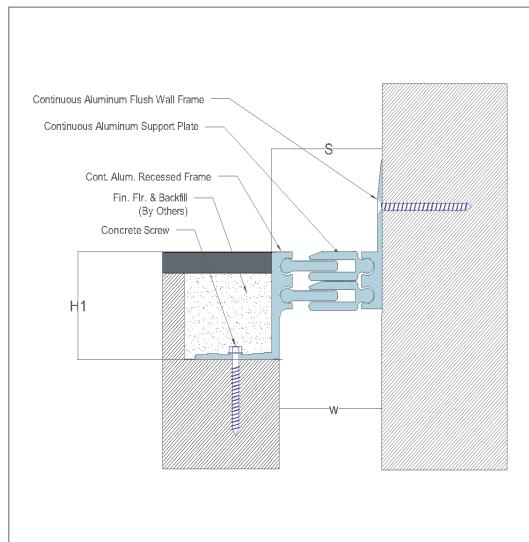
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Optional vapor barrier Optional fire rated.

Mill finish aluminum.



Movement ± 25%

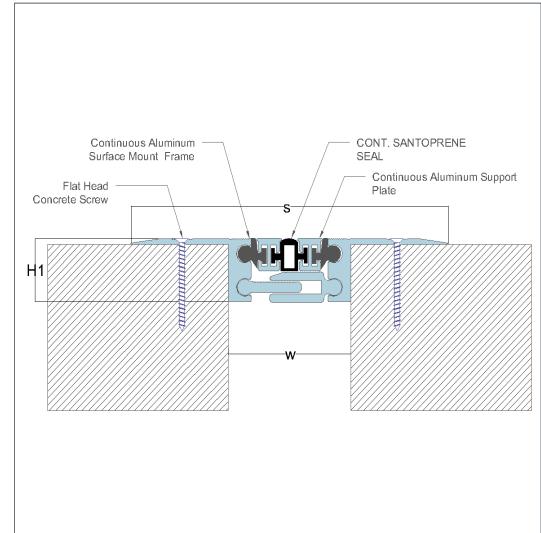
Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i322-25	25	49.4	*	25	48	10	10	Vehicle
	i322-50	50	49.4	*	58	48	13	13	Vehicle
	i322-75	75	49.4	*	83	48	19	19	Vehicle
Floor/Wall	i322-C-25	25	49.4	*	25	48	10	10	Vehicle
	i322-C-50	50	49.4	*	58	48	13	13	Vehicle
	i322-C-75	75	49.4	*	83	48	19	19	Vehicle

i325®



Description

The i325® System is a surface mount floor expansion joint system. can coordinate with your desired flooring finish.



Key Features

Install Condition: Floor/Floor, Floor/wall.

Joint width: 25-75mm.

Recessed modular frames for minimal sight line.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems.

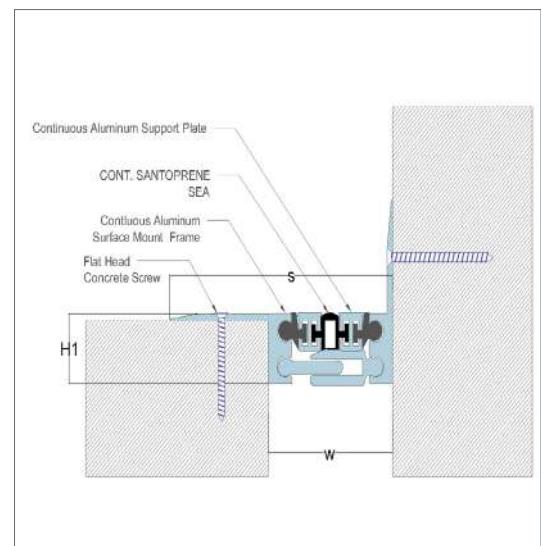
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Optional vapor barrier Optional fire rated.

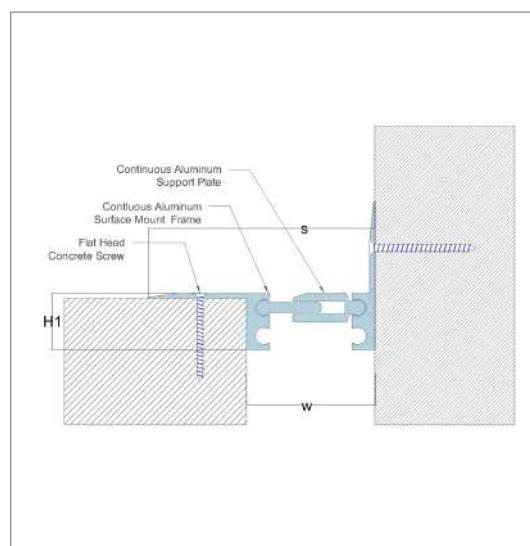
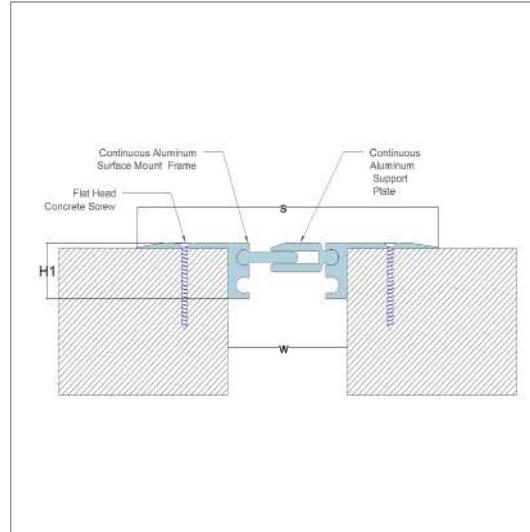
Mill finish aluminum.



Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i325-25	25	27	*	125	*	10	10	Pedestrian
	i325-50	50	27	*	150	*	13	13	Pedestrian
	i325-75	75	27	*	175	*	19	19	Pedestrian
Floor/Wall	i325-C-25	25	27	*	77	*	10	10	Pedestrian
	i325-C-50	50	27	*	103	*	13	13	Pedestrian
	i325-C-75	75	27	*	116	*	19	19	Pedestrian

i326®



Description

The i326® System is a surface mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/wall.

Joint width: 25-75mm.

Recessed modular frames for minimal sight line.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems.

Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

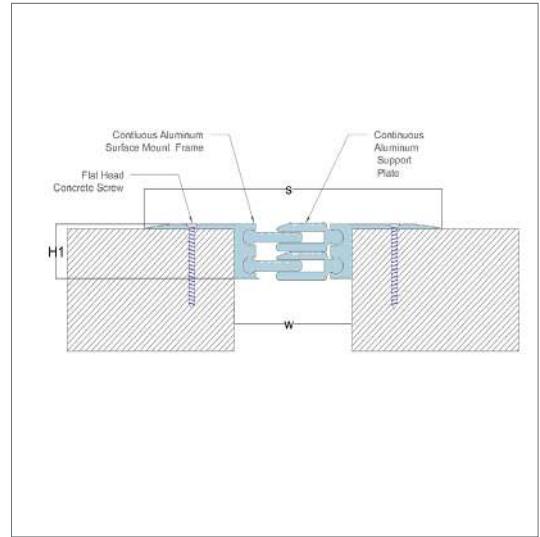
Optional vapor barrier Optional fire rated.

Mill finish aluminum.

Movement ± 25%

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i326-25	25	27	*	125	*	10	10	Pedestrian
	i326-50	50	27	*	150	*	13	13	Pedestrian
	i326-75	75	27	*	175	*	19	19	Pedestrian
Floor/Wall	i326-C-25	25	27	*	77	*	10	10	Pedestrian
	i326-C-50	50	27	*	103	*	13	13	Pedestrian
	i326-C-75	75	27	*	116	*	19	19	Pedestrian

i327®



Description

The i327® System is a surface mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/wall.

Joint width: 25-75mm.

Recessed modular frames for minimal sight line.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems.

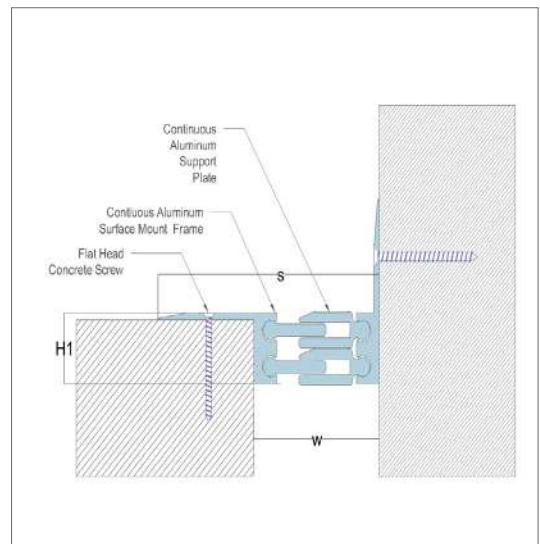
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Optional vapor barrier Optional fire rated.

Mill finish aluminum.



Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i327-25	25	27	*	125	*	10	10	Vehicle
	i327-50	50	27	*	150	*	13	13	Vehicle
	i327-75	75	27	*	175	*	19	19	Vehicle
Floor/Wall	i327-C-25	25	27	*	77	*	10	10	Vehicle
	i327-C-50	50	27	*	103	*	13	13	Vehicle
	i327-C-75	75	27	*	116	*	19	19	Vehicle

i330®



Description

The i330® System is a recessed mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 25-50mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems

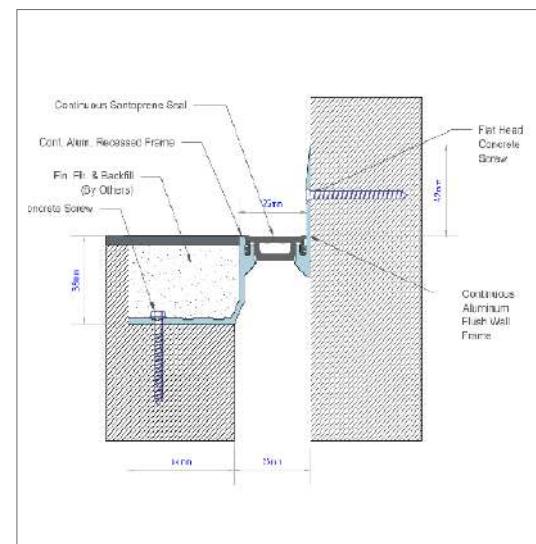
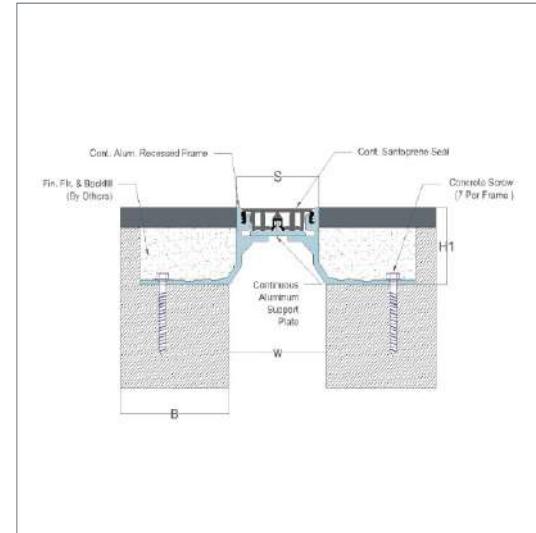
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Optional vapor barrier Optional fire rated.

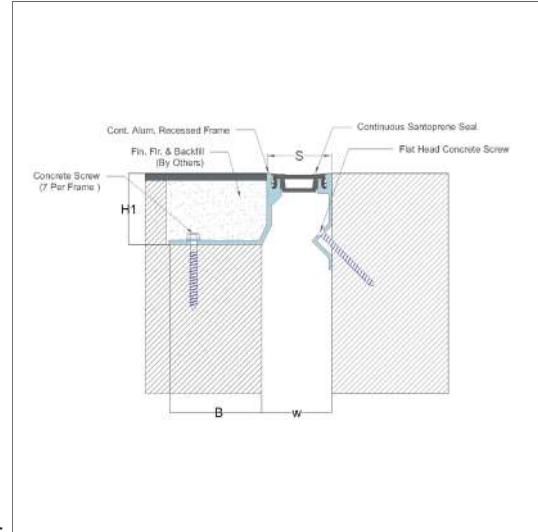
Mill finish aluminum.



Movement ± 25%

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i330-25	25	38	*	28	64	6	6	Pedestrian
	i330-50	50	38	*	50	64	13	13	Pedestrian
Floor/Wall	i330-C-25	25	38	*	28	64	6	6	Pedestrian
	i330-C-50	50	38	*	50	64	13	13	Pedestrian

i331®



Description

The i331® System is a recessed mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 25-50mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems.

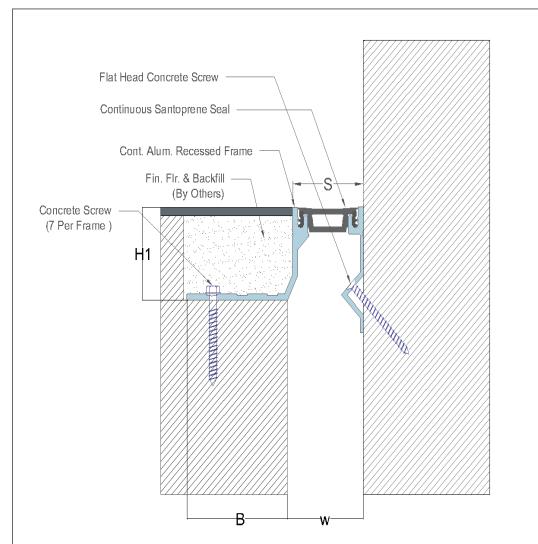
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Optional vapor barrier Optional fire rated.

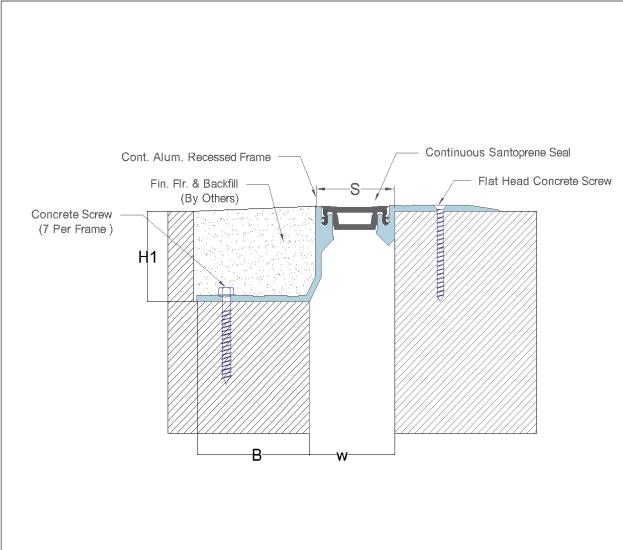
Mill finish aluminum.



Movement ± 25%

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i331-25	25	38	*	25	64	6	6	Pedestrian
	i331-50	50	38	*	50	64	13	13	Pedestrian
Floor/Wall	i331-C-25	25	38	*	25	64	6	6	Pedestrian
	i331-C-50	50	38	*	50	64	13	13	Pedestrian

i332®



Description

The i332® System is a surface mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor.

Joint width: 25-50mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility.

Adaptable to many finishes, including ceramic tile, marble, stone, vinyl tile and carpet.

Seamlessly integrates with wall and ceiling systems.

Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Optional vapor barrier Optional fire rated.

Mill finish aluminum.

Movement $\pm 25\%$

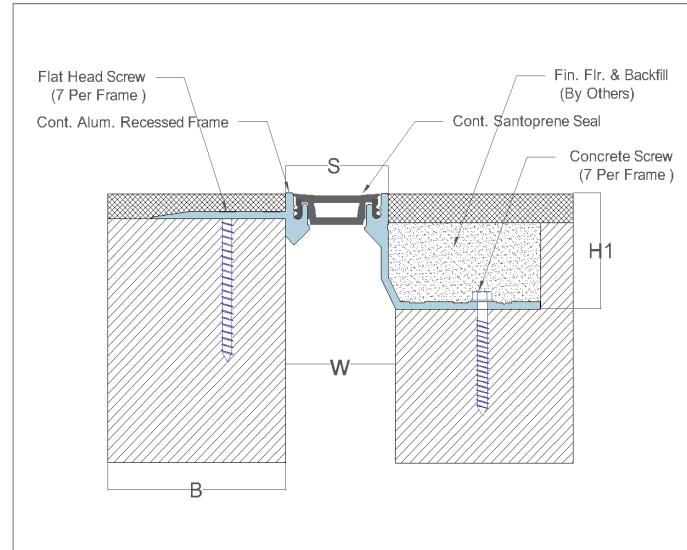
Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i332-25	25	38	*	25	64	6	6	Pedestrian
	i332-50	50	38	*	50	64	13	13	Pedestrian

i335®



Description

The i335® System is a surface mount floor expansion joint system. can coordinate with your desired flooring finish.



Key Features

Install Condition: Floor/Floor.

Joint width: 25-50mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility.

Seamlessly integrates with wall and ceiling systems.

Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

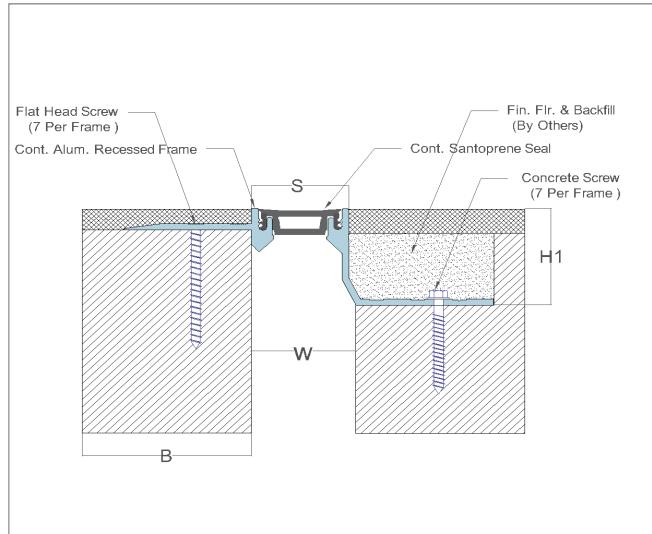
Optional vapor barrier Optional fire rated.

Mill finish aluminum.

Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i335-25	25	38	3	25	64	6	6	Pedestrian
	i335-50	50	38	3	50	64	13	13	Pedestrian

i336®



Description

The i336® System is a surface mount floor expansion joint system. can coordinate with your desired flooring finish.

Key Features

Install Condition: Floor/Floor.

Joint width: 25-50mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility.

Seamlessly integrates with wall and ceiling systems.

Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

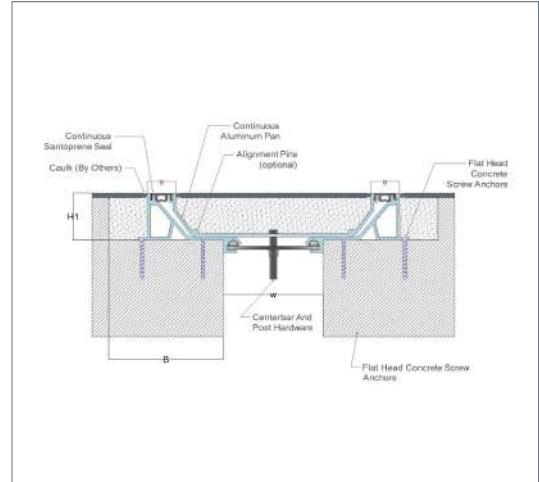
Optional vapor barrier Optional fire rated.

Mill finish aluminum.

Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i336-25	25	38	6	25	64	6	6	Pedestrian
	i336-50	50	38	6	50	64	13	13	Pedestrian

i412®



Description

The i412® floor expansion joint system is pan system designed for generous thermal and seismic movement requirements and narrow sight lines that minimize aesthetic disruption to flooring finishes.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 50-350mm.

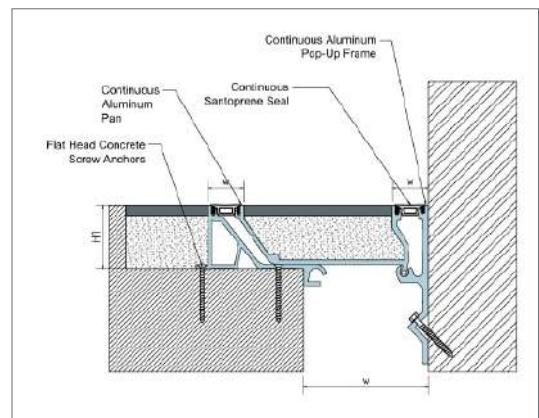
Optional fire rated.

Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

Applicable for existing conditions, additions and new construction.

Mill finish aluminum.



Movement ± 50%

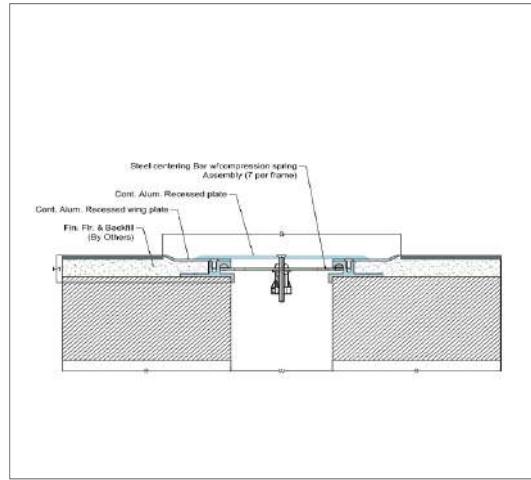
Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	mm
Floor to Floor	i412-50	50	53.5	*	65	125	25	50	Pedestrian
	i412-100	100	53.5	*	65	125	50	50	Pedestrian
	i412-150	150	53.5	*	65	125	75	50	Pedestrian
	i412-200	200	53.5	*	65	140	100	50	Pedestrian
	i412-250	250	53.5	*	65	175	125	50	Pedestrian
	i412-300	300	53.5	*	65	200	150	50	Pedestrian
	i412-350	350	53.5	*	65	200	175	50	Pedestrian
Floor to Wall	i412-C-50	50	53.5	*	32	175	15	50	Pedestrian
	i412-C-100	100	53.5	*	32	150	25	50	Pedestrian
	i412-C-150	150	53.5	*	32	125	35	50	Pedestrian
	i412-C-200	200	53.5	*	32	140	50	50	Pedestrian
	i412-C-250	250	53.5	*	32	175	65	50	Pedestrian
	i412-C-300	300	53.5	*	32	200	80	50	Pedestrian
	i412-C-350	350	53.5	*	32	200	95	50	Pedestrian

i510®



Description

The i510® floor expansion joint is a heavy duty system designed for generous thermal and seismic movement for flooring finishes.



Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 50-350mm.

Optional fire rated.

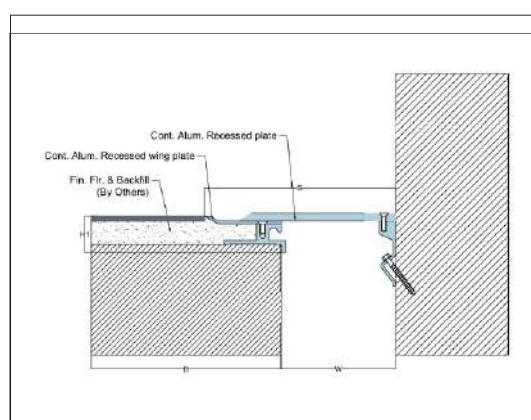
Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

Applicable for existing conditions, additions and new construction.

Mill finish aluminum.

Stainless steel: Alloy types of 304 or 316.



Movement $\pm 50\%$

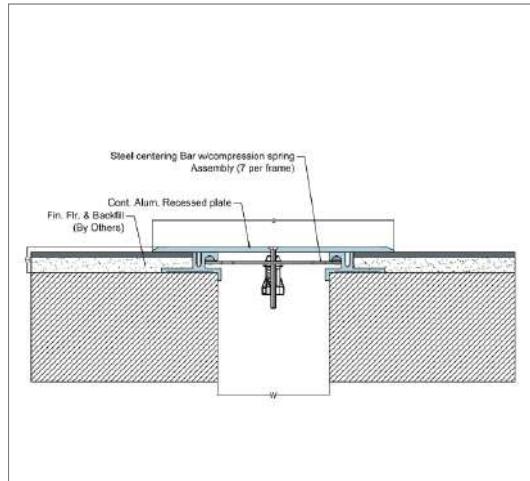
Application	System	W	H1	H2	S	B	Movement +/-	L	
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
Floor to Floor	i510-50	50	35	*	300	120	25	50	Truck
	i510-100	100	35	*	300	120	50	50	Truck
	i510-150	150	35	*	375	130	75	50	Truck
	i510-200	200	35	*	450	145	100	50	Truck
	i510-250	250	35	*	500	145	125	50	Truck
	i510-300	300	35	*	630	190	150	50	Truck
	i510-350	350	35	*	705	190	175	50	Truck
Floor to Wall	i510-C-50	50	35	*	32	175	15	50	Truck
	i510-C-100	100	35	*	32	150	25	50	Truck
	i510-C-150	150	35	*	32	125	35	50	Truck
	i510-C-200	200	35	*	32	140	50	50	Truck
	i510-C-250	250	35	*	32	175	65	50	Truck
	i510-C-300	300	35	*	32	200	80	50	Truck
	i510-C-350	350	35	*	32	200	95	50	Truck

i520®



Description

The i520® floor expansion joint is a heavy duty system designed for generous thermal and seismic movement for flooring finishes.



Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 50-350mm.

Optional fire rated.

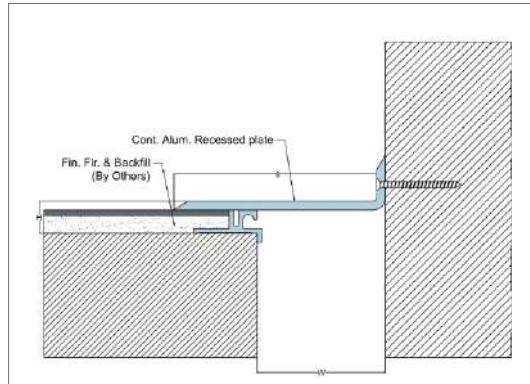
Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

Applicable for existing conditions, additions and new construction.

Mill finish aluminum.

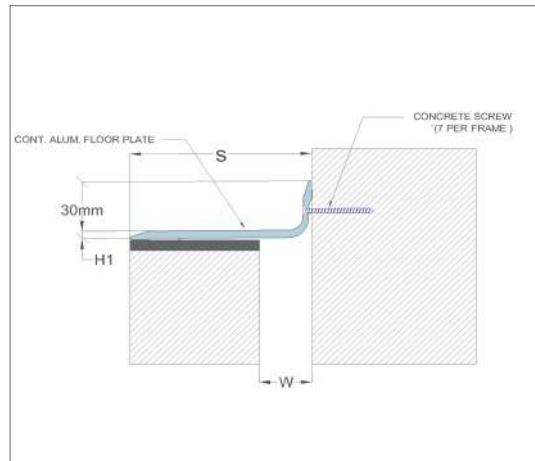
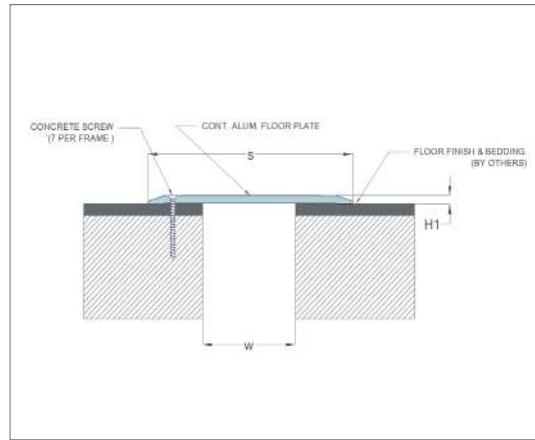
Stainless steel: Alloy types of 304 or 316.



Movement \pm 50%

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor to Floor	i520-50	50	32	*	300	120	25	50	Truck
	i520-100	100	32	*	300	120	50	50	Truck
	i520-150	150	32	*	375	130	75	50	Truck
	i520-200	200	32	*	450	145	100	50	Truck
	i520-250	250	32	*	500	145	125	50	Truck
	i520-300	300	32	*	630	190	150	50	Truck
	i520-350	350	32	*	705	190	175	50	Truck
Floor to Wall	i520-C-50	50	32	*	32	175	15	50	Truck
	i520-C-100	100	32	*	32	150	25	50	Truck
	i520-C-150	150	32	*	32	125	35	50	Truck
	i520-C-200	200	32	*	32	140	50	50	Truck
	i520-C-250	250	32	*	32	175	65	50	Truck
	i520-C-300	300	32	*	32	200	80	50	Truck
	i520-C-350	350	32	*	32	200	95	50	Truck

i830®



Description

The i830® System is a Designed for interior and exterior floor and wall.

Key Features

Install Condition: Floor/Floor, Floor/Wall .

Joint width: 25-150mm.

Optional fire rated.

Seamlessly integrates with coordinating i820® Wall system.

Flush mount interior and exterior systems reduce sightline.

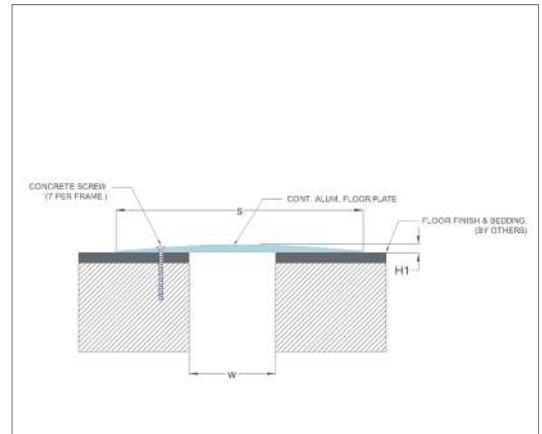
Adaptable to many finishes, including ceramic tile, marble, stone.

Clear anodized finish.

Movement ± 25%

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i830-25	25	4	*	60	*	13	*	Pedestrian
	i830-38	38	4	*	80	*	19	*	Pedestrian
	i830-50	50	4	*	110	*	25	*	Pedestrian
	i830-75	75	4	*	150	*	38	*	Pedestrian
	i830-100	100	4	*	200	*	50	*	Pedestrian
	i830-125	125	4	*	250	*	65	*	Pedestrian
	i830-150	150	4	*	250	*	75	*	Pedestrian
Floor/Wall	i830-C-25	25	4	*	70	*	13	*	Pedestrian
	i830-C-38	38	4	*	70	*	19	*	Pedestrian
	i830-C-50	50	4	*	80	*	25	*	Pedestrian
	i830-C-75	75	4	*	120	*	38	*	Pedestrian
	i830-C-100	100	4	*	150	*	50	*	Pedestrian
	i830-C-125	125	4	*	220	*	65	*	Pedestrian
	i830-C-150	150	4	*	220	*	75	*	Pedestrian

i831®



Description

The i831® System is a Designed for interior and exterior floor and wall.

Key Features

Install Condition: Floor/Floor, Floor/Wall .

Joint width: 25-150mm.

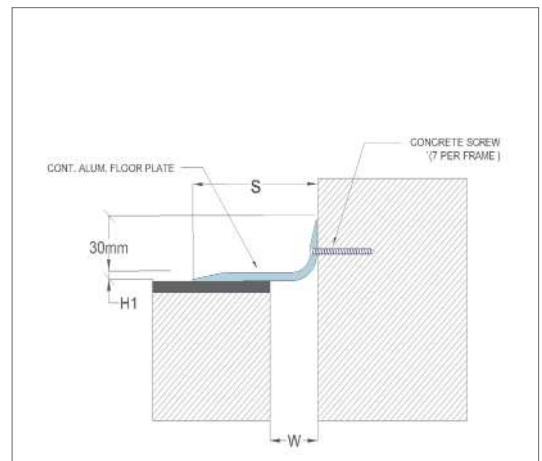
Optional fire rated.

Seamlessly integrates with coordinating Wall system.

Flush mount interior and exterior systems reduce sightline.

Adaptable to many finishes, including ceramic tile, marble, stone.

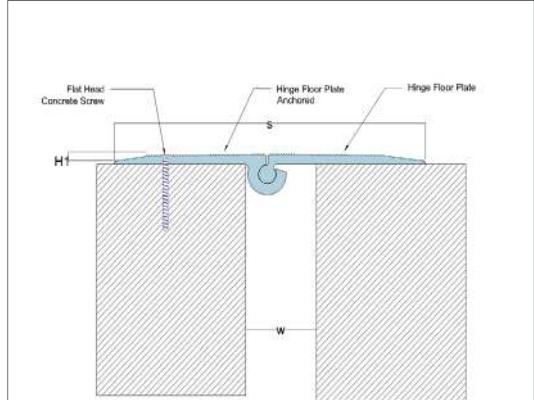
Clear anodized finish.



Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i831-25	25	4	*	60	*	13	*	Pedestrian
	i831-38	38	4	*	80	*	19	*	Pedestrian
	i831-50	50	4	*	100	*	25	*	Pedestrian
	i831-75	75	4	*	145	*	38	*	Pedestrian
	i831-100	100	4	*	200	*	50	*	Pedestrian
	i831-125	125	4	*	250	*	65	*	Pedestrian
Floor/Wall	i831-150	150	4	*	250	*	75	*	Pedestrian
	i831-C-25	25	4	*	70	*	13	*	Pedestrian
	i831-C-38	38	4	*	70	*	19	*	Pedestrian
	i831-C-50	50	4	*	70	*	25	*	Pedestrian
	i831-C-75	75	4	*	115	*	38	*	Pedestrian
	i831-C-100	100	4	*	150	*	50	*	Pedestrian
	i831-C-125	125	4	*	200	*	65	*	Pedestrian
	i831-C-150	150	4	*	200	*	75	*	Pedestrian

i840®



Description

The i840® floor expansion joint system is designed for uneven slab construction.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 50-200mm.

Optional fire rated.

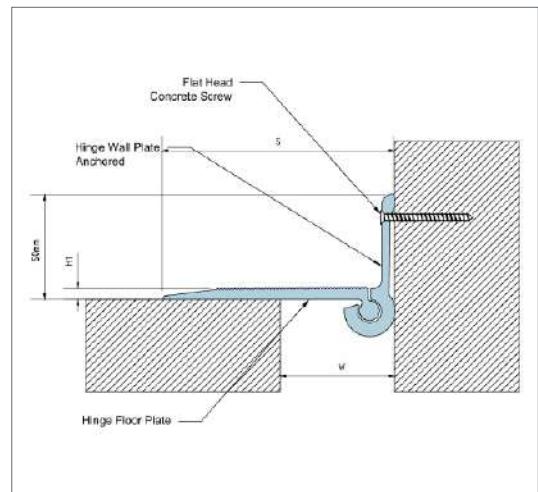
Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

Clear anodized finish.

Applicable for existing conditions, additions and new construction.

Mill finish aluminum.



Movement ± 25%

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor to Floor	i840-50	50	5	*	175	*	±25	-51 / +10	Vehicle
	i840-100	100	5	*	265	*	±50	-51 / +10	Vehicle
	i840-150	150	5	*	327	*	±75	-71 / +13	Vehicle
	i840-200	200	11	*	446	*	±100	-64 / +25	Vehicle
Floor to Wall	i840-C-50	50	5	*	175	*	±25	-51 / +10	Vehicle
	i840-C-100	100	5	*	265	*	±50	-51 / +10	Vehicle
	i840-C-150	150	5	*	330	*	±75	-71 / +13	Vehicle
	i840-C-200	200	11	*	450	*	±100	-64 / +25	Vehicle

i845®



Description

The **i845®** is a floor expansion joint system designed for uneven slab construction.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 25-150mm.

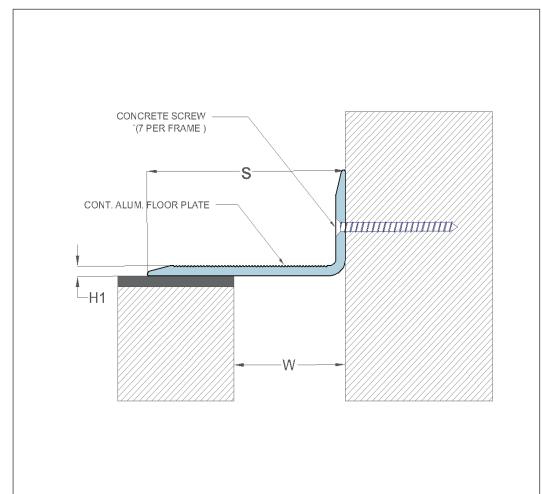
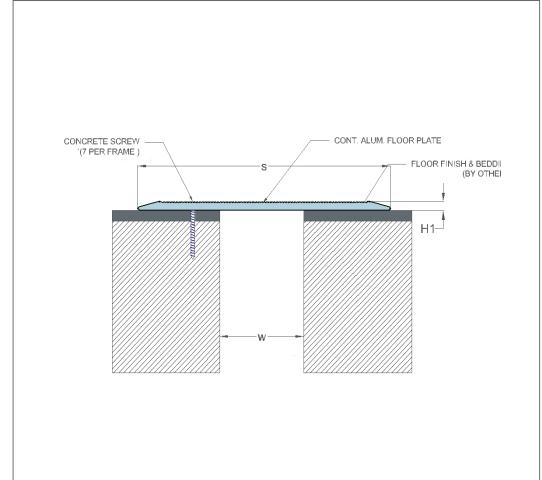
Optional fire rated.

Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

Applicable for existing conditions, additions and new construction.

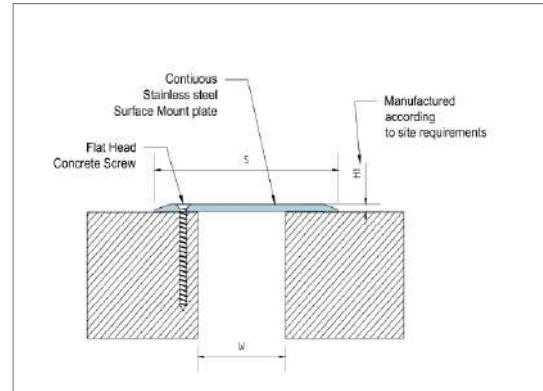
Mill finish aluminum.



Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor/Floor	i845-25	25	5	*	150	*	13	*	Vehicle
	i845-50	50	5	*	150	*	19	*	Vehicle
	i845-75	75	6	*	200	*	51	*	Vehicle
	i845-100	100	6	*	200	*	51	*	Vehicle
	i845-125	125	6	*	250	*	65	*	Vehicle
	i845-150	150	6	*	250	*	65	*	Vehicle
Floor/Wall	i845-C-25	25	5	*	100	*	13	*	Vehicle
	i845-C-50	50	5	*	100	*	19	*	Vehicle
	i845-C-75	75	5	*	150	*	25	*	Vehicle
	i845-C-100	100	5	*	150	*	51	*	Vehicle
	i845-C-125	125	6	*	220	*	65	*	Vehicle
	i845-C-150	150	6	*	220	*	65	*	Vehicle

i890®



Description

The i890® a System is a Designed for interior and exterior floor, wall And Ceiling.

Key Features

Install Condition: floor, wall And Ceiling systems.

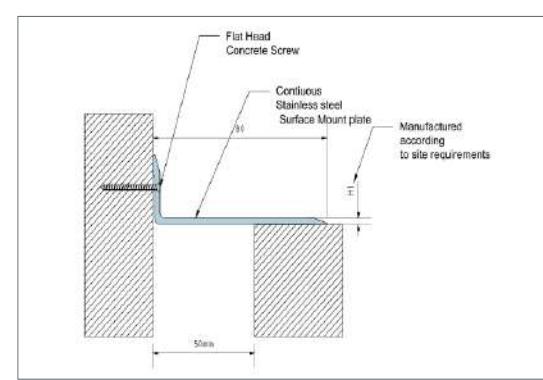
Joint width: 25-150mm.

Optional fire rated.

Flush mount interior and exterior systems reduce sightline.

Adaptable to many finishes, including ceramic tile, marble, stone.

The product is available in all PVD coating colors.



Materials

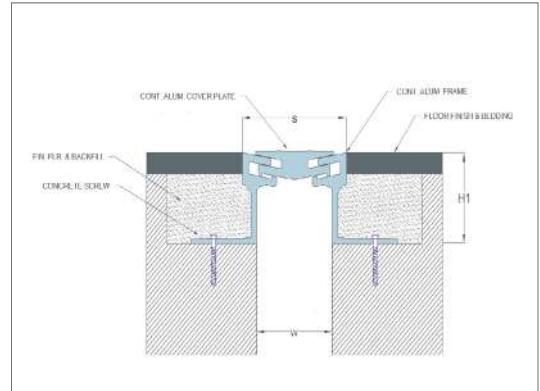
Stainless steel: Alloy types of 304 or 316.

Thickness : 0.8 & 1.3 & 1.8 & 2.3 & 2.8.

Movement ± 25%

Application	System	W	H1	H2	S	B	Movement +/-	
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical
		mm	mm	mm	mm	mm	mm	mm
Floor/Floor Wall/Wall	i890-25	25	*	*	60	*	13	*
	i890-38	38	*	*	80	*	19	*
	i890-50	50	*	*	110	*	25	*
	i890-75	75	*	*	200	*	38	*
	i890-100	100	*	*	200	*	50	*
	i890-125	125	*	*	250	*	65	*
	i890-150	150	*	*	250	*	75	*
Floor/Wall Wall/Corner	i890-C-25	25	*	*	50	*	13	*
	i890-C-38	38	*	*	70	*	19	*
	i890-C-50	50	*	*	80	*	25	*
	i890-C-75	75	*	*	150	*	38	*
	i890-C-100	100	*	*	150	*	50	*
	i890-C-125	125	*	*	220	*	65	*
	i890-C-150	150	*	*	220	*	75	*

i920®



Description

The **i920®** floor expansion joint system is a cost effective solution for high load bearing spaces that encounter vehicular traffic such as parking garages, warehouses and more.

Key Features

Install Condition: Floor/Floor.

Joint width: 25-50mm.

Designed with a crisp, narrow surface profile to minimize visual sightline.

High loading capacity capable of withstanding heavy maintenance equipment.

Self-Centering .

Ideal for large Civil and Government projects.

Alignment pins allow for easy continuous straight installation.

Mill finish aluminum.

Movement $\pm 25\%$

System	W	H1	H2	S	B	Movement +/-		Load
	Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
	mm	mm	mm	mm	mm	mm	mm	
i920-25	25	50	*	34	57	6	*	Vehicle
i920-50	50	50	*	60	57	13	*	Vehicle

OUR PROJECT

Established in 1996, the Misr University for Science and Technology is a non-profit private higher education institution located in the medium city of 6th of October City (population range of 250,000-499,999 inhabitants), Giza.

Officially recognized by the Ministry of Higher Education of Egypt, Misr University for Science and Technology (MUST) is a large-sized (uniRank enrollment range: 20,000-24,999 students) coeducational Egyptian higher education institution.

MUST also provides several academic and non-academic facilities and services to students including a library, housing, sports facilities, financial aids and/or scholarships, study abroad and exchange programs, online courses and distance learning opportunities, as well as administrative services.

MISR UNIVERSITY FOR SCIENCE & TECHNOLOGY (MUST)



Location

6th of October

Client

Better Home

Consultant

Better Home

Contractor

Alshorouk - Redcon - Hueck - Alahram

Quantities

17,300 M

iChem products used

i330 Floor systems
i845 Floor systems
i412 Exterior systems
i870 Wall systems



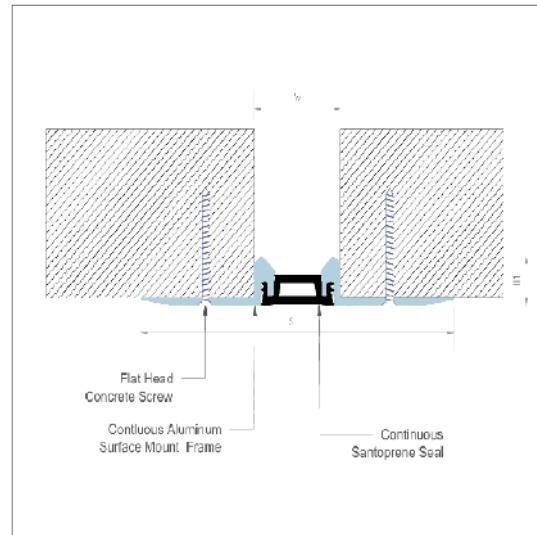
WALL + CEILING SYSTEMS

i315®



Description

The i315® System is a surface mount wall expansion joint system that can coordinate with your desired walling finish.



Key Features

Install Condition: Wall/Wall, Wall to Corner.

Joint width: 25-50mm.

System is ideal for retrofit applications.

Designed to accommodate several different wall finishes such as tile, wood, or concrete.

Easy to clean flush seals, no dirt or water traps.

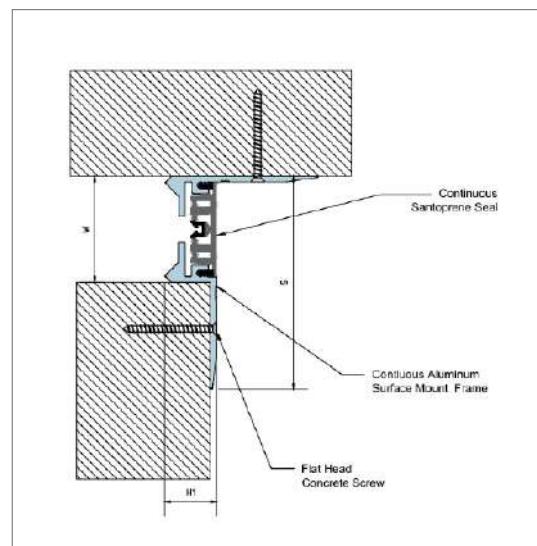
Standard and Custom seal colors available.

Dual durometer seal provides a secure fit and optimal flexibility.

Snap-fit design for easy on site assembly.

Standard loading capabilities.

Clear anodized finish.

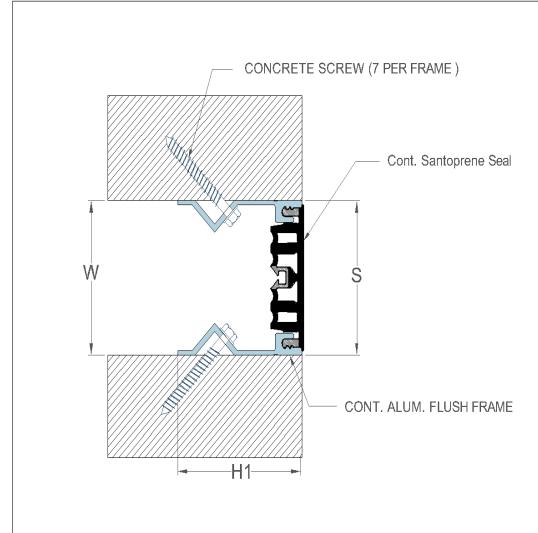


Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Wall/Wall Ceiling/Ceiling	i315-25	25	16	*	120	*	6	6	*
	i315-50	50	25	*	140	*	13	13	*
Wall/Corner Wall/Ceiling	i315-C-25	25	16	*	75	*	6	6	*
	i315-C-50	50	25	*	95	*	13	13	*

i317®**Description**

The **i317®a** System is a Flush mount wall expansion joint system. can coordinate with your desired walling finish.

**Key Features**

Install Condition: Wall / Wall, Wall to Corner.

Joint width: 25-50mm.

System is ideal for retrofit applications.

Designed to accommodate several different wall finishes such as tile, wood, or concrete.

Easy to clean flush seals, no dirt or water traps.

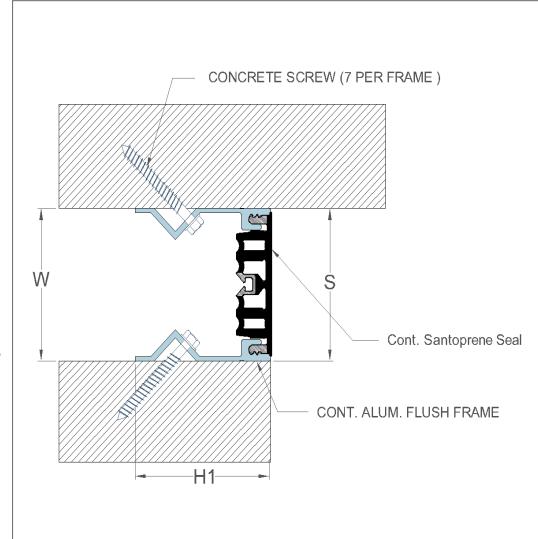
Standard and Custom seal colors available.

Dual durometer seal provides a secure fit and optimal flexibility.

Snap-fit design for easy on site assembly.

Standard loading capabilities.

Mill finish aluminum.

**Movement $\pm 25\%$**

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Wall/Wall Ceiling/Ceiling	i317-25	25	20	*	25	*	6.25	6.25	*
	i317-50	50	20	*	50	*	12.5	12.5	*
Wall/Corner Wall/Ceiling	i317-C-25	25	20	*	25	*	6.25	6.25	*
	i317-C-50	50	20	*	50	*	12.5	12.5	*

i370®



Description

The i370® ceiling expansion joint system includes bellows seals that allow for seismic movement.

This system comes in a variety of colors to match your ceiling material.

Key Features

Install Condition: Ceiling/Ceiling, Wall/Ceiling.

Joint width: 50-150mm.

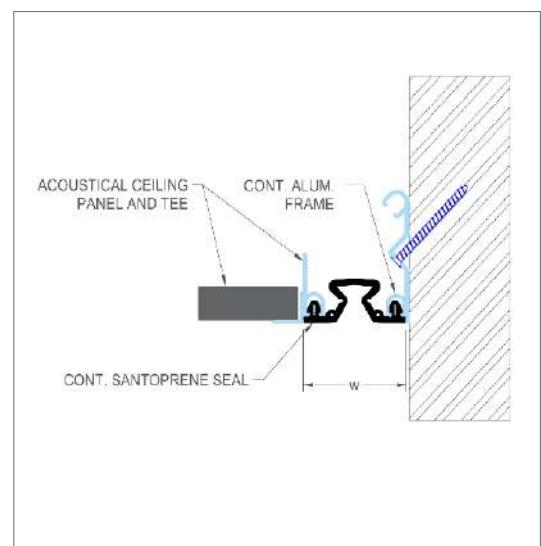
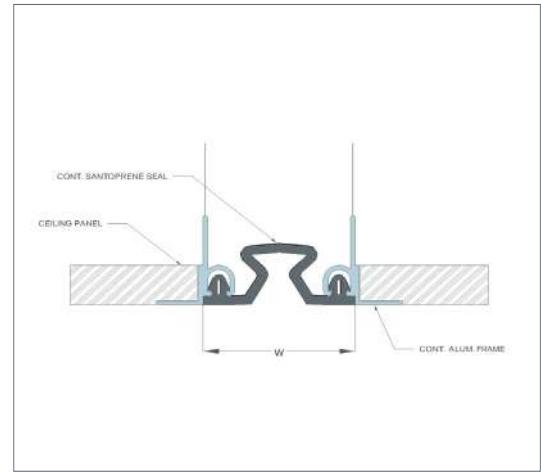
Model i370 frame pop rivets to T-Bar profile in suspended ceiling system.

Bellows seal allows for seismic movement.

Standard and Custom seal colors available.

All seals achieve UL Environmental Greenguard.

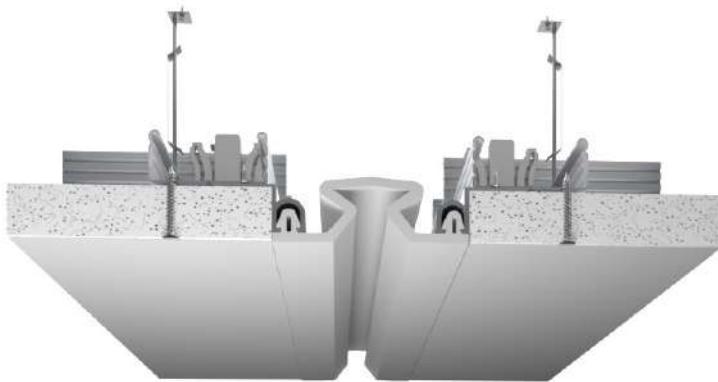
Mill finish aluminum.



Movement ± 50%

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Ceiling/Ceiling	i370-50	50	*	*	50	*	25	25	*
	i370-75	75	*	*	75	*	38	38	*
	i370-100	100	*	*	100	*	50	50	*
	i370-125	125	*	*	125	*	63	63	*
	i370-150	150	*	*	150	*	75	75	*
Wall/Ceiling	i370-C-50	50	*	*	50	*	25	25	*
	i370-C-75	75	*	*	75	*	38	38	*
	i370-C-100	100	*	*	100	*	50	50	*
	i370-C-125	125	*	*	125	*	63	63	*
	i370-C-150	150	*	*	150	*	75	75	*

i371®



Description

The i371® ceiling expansion joint system includes bellows seals that allow for seismic movement. This system comes in a variety of colors to match your ceiling material.

Key Features

Install Condition: Ceiling/Ceiling, Wall/Ceiling.

Joint width: 50-150mm.

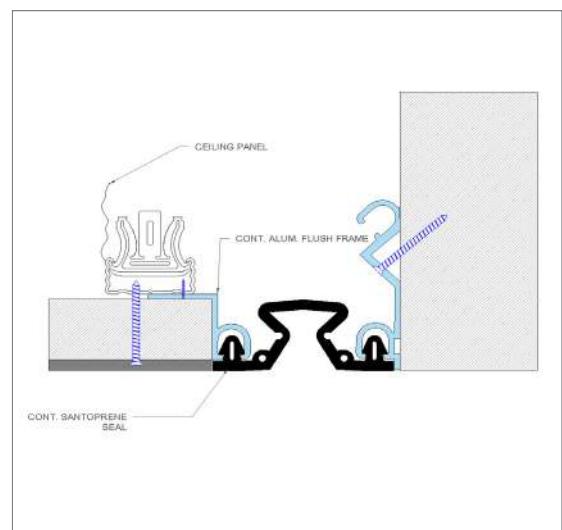
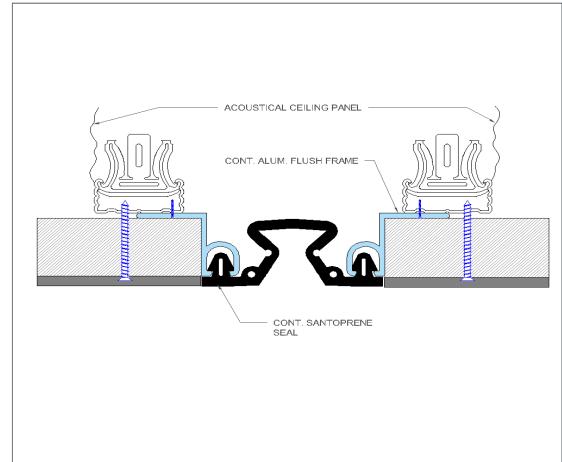
Model i371® frame pop rivets to T-Bar profile in suspended ceiling system.

Bellows seal allows for seismic movement.

Standard and Custom seal colors available.

All seals achieve UL Environmental Greenguard.

Mill finish aluminum.



Movement \pm 50%

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Ceiling/Ceiling	i371-50	50	*	*	50	*	25	25	*
	i371-75	75	*	*	75	*	38	38	*
	i371-100	100	*	*	100	*	50	50	*
	i371-125	125	*	*	125	*	63	63	*
	i371-150	150	*	*	150	*	75	75	*
Wall/Ceiling	i371-C-50	50	*	*	50	*	25	25	*
	i371-C-75	75	*	*	75	*	38	38	*
	i371-C-100	100	*	*	100	*	50	50	*
	i371-C-125	125	*	*	125	*	63	63	*
	i371-C-150	150	*	*	150	*	75	75	*

i710®



Description

The i710® interior wall + ceiling expansion joint system is flush mounted to reduce sightline.

Additionally, the pleated seal comes in a variety of colors to blend into your wall material.

Key Features

Install Condition: Wall/Wall, Ceiling/Ceiling.

Joint width: 50-150mm.

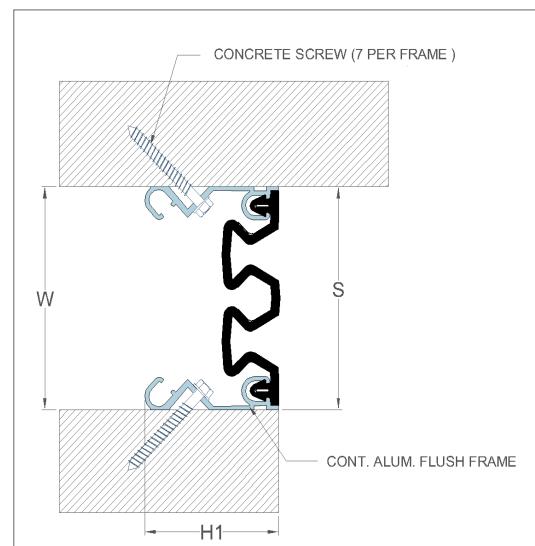
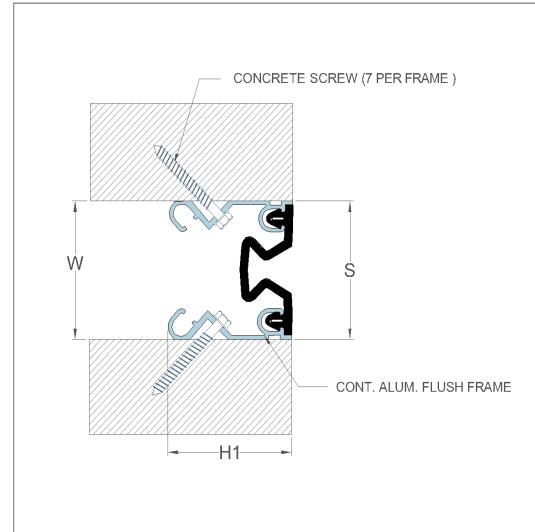
Flush mount interior systems reduce sightline.

Standard seal colors: black, beige, gray, off white and bright white. Custom colors available upon request.

3component interior system.

May be installed to various substrates with mechanical anchors or epoxy adhesive.

Mill finish aluminum.



Movement ± 50%

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Wall/Wall Ceiling/Ceiling	i710-50	50	49	*	50	*	25	25	*
	i710-75	75	49	*	75	*	38	38	*
	i710-100	100	49	*	100	*	50	50	*
	i710-125	125	49	*	125	*	63	63	*
	i710-150	150	49	*	150	*	75	75	*
Wall/Corner Wall/Ceiling	i710-C-50	50	49	*	50	*	25	25	*
	i710-C-75	75	49	*	75	*	38	38	*
	i710-C-100	100	49	*	100	*	50	50	*
	i710-C-125	125	49	*	125	*	63	63	*
	i710-C-150	150	49	*	150	*	75	75	*

i730®



Description

The i730® exterior wall + ceiling expansion joint system is flush mounted to reduce sightline.

Additionally, the pleated seal comes in a variety of colors to blend into your wall material.

Key Features

Install Condition: Wall/Wall, Ceiling/Ceiling.

Joint width: 50-100mm.

Flush mount interior and exterior systems reduce sightline.

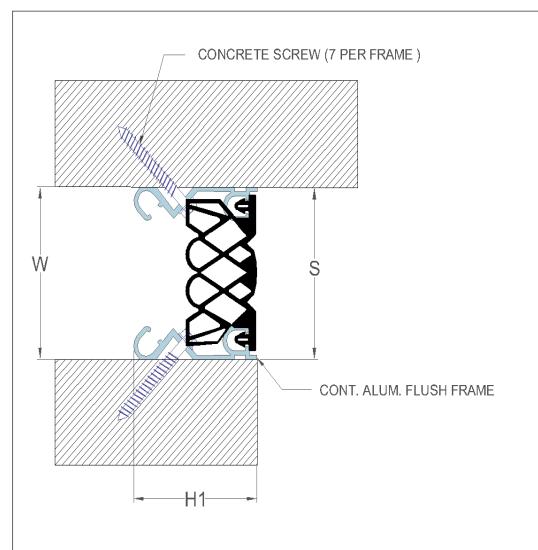
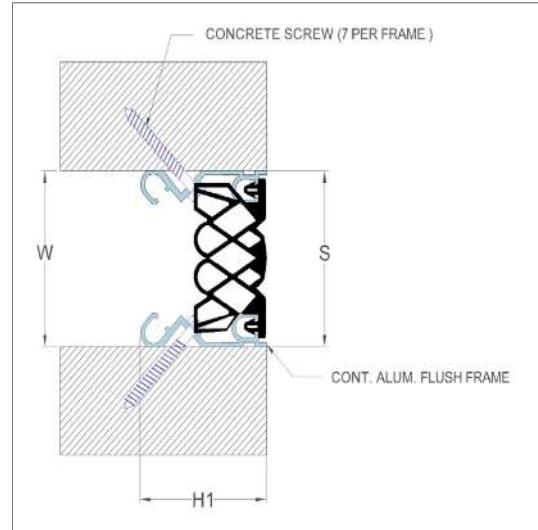
Standard seal colors: black, beige, gray, off white and bright white.

Custom colors available upon request.

3component exterior system.

May be installed to various substrates with mechanical anchors or epoxy adhesive.

Mill finish aluminum.



Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Wall/Wall Ceiling/ Ceiling	i730-50	50	49	*	50	*	25	25	*
	i730-75	75	49	*	75	*	38	38	*
	i730-100	100	49	*	100	*	50	50	*
Wall/Corner Wall/Ceiling	i730-C-50	50	49	*	50	*	25	25	*
	i730-C-75	75	49	*	75	*	38	38	*
	i730-C-100	100	49	*	100	*	50	50	*

i820®



Description

The i820® System is a Designed for interior and exterior walls and ceilings.

Key Features

Install Condition: Wall/Wall, Ceiling/Ceiling.

Joint width: 25-150mm.

Seamlessly integrates with coordinating i830® floor system.

Optional fire rated.

Designed for interior and exterior walls and ceilings.

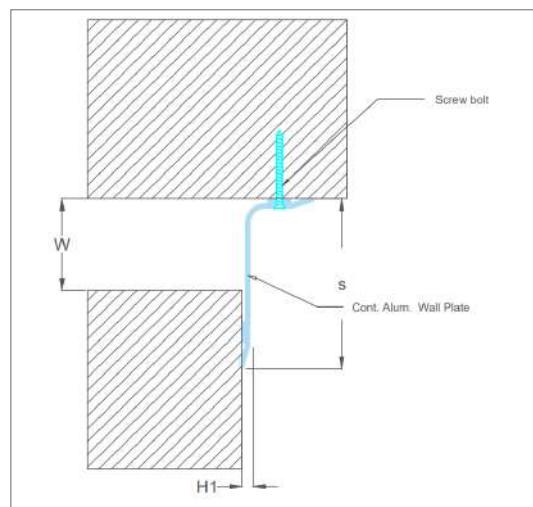
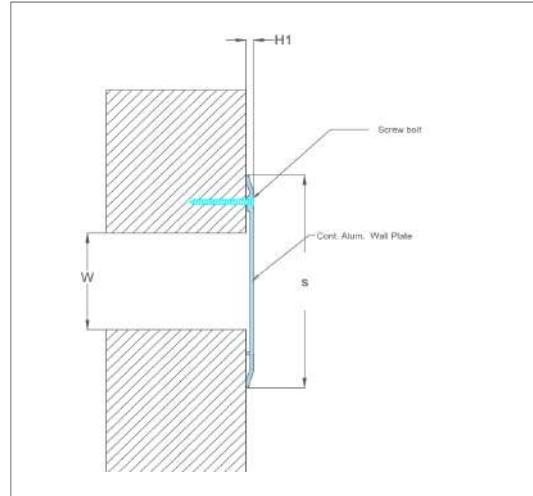
Unique ratcheted design accommodates uneven or odd angle wall conditions .

Economical solution for retrofit and surface mount installations .

Flush mount interior and exterior systems reduce sightline.

Adaptable to many finishes, including ceramic tile, marble, stone .

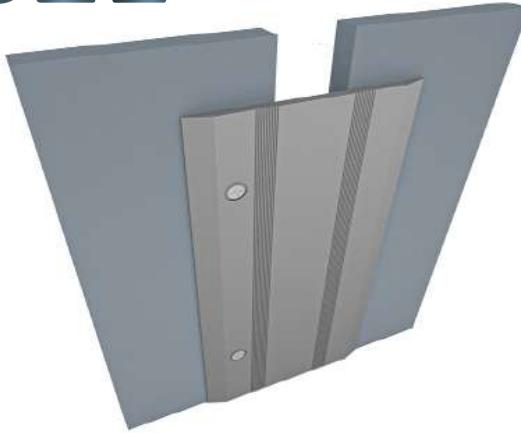
Clear anodized finish.



Movement ± 25%

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Wall/Wall Ceiling/ Ceiling	i820-25	25	4	*	60	*	13	*	*
	i820-38	38	4	*	80	*	19	*	*
	i820-50	50	4	*	110	*	25	*	*
	i820-75	75	4	*	150	*	38	*	*
	i820-100	100	4	*	200	*	50	*	*
	i820-125	125	4	*	250	*	65	*	*
	i820-150	150	4	*	250	*	75	*	*
Wall/Corner Wall/Ceiling	i820-C-25	25	4	*	70	*	13	*	*
	i820-C-38	38	4	*	70	*	19	*	*
	i820-C-50	50	4	*	80	*	25	*	*
	i820-C-75	75	4	*	120	*	38	*	*
	i820-C-100	100	4	*	150	*	50	*	*
	i820-C-125	125	4	*	220	*	65	*	*
	i820-C-150	150	4	*	220	*	75	*	*

i821®



Description

The i821® System is a Designed for interior and exterior walls and ceilings.

Key Features

Install Condition: Wall/Wall, Ceiling/Ceiling.

Joint width: 25-150mm.

Seamlessly integrates with coordinating floor system.

Optional fire rated.

Designed for interior walls and ceilings.

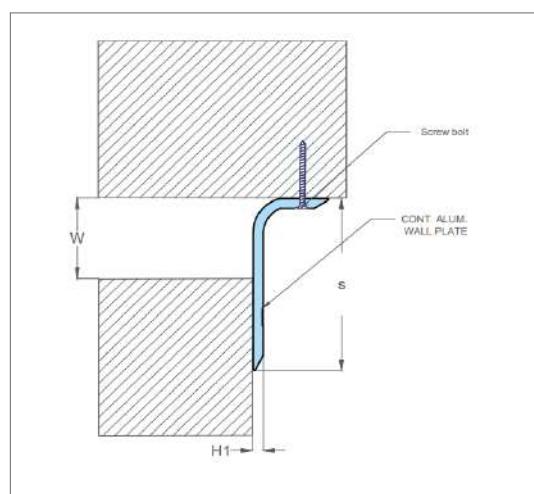
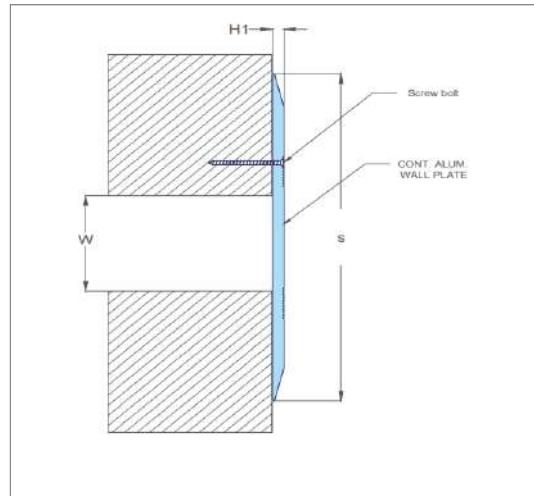
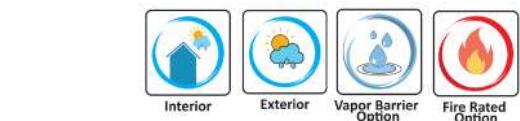
Unique ratcheted design accommodates uneven or odd angle wall conditions.

Flush mount interior and exterior systems reduce sightline.

Adaptable to many finishes, including ceramic tile, marble, stone.

Clear anodized finish.

Movement $\pm 25\%$



Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Wall/Wall Ceiling/ Ceiling	I821-25	25	4	*	60	*	13	*	*
	I821-38	38	4	*	80	*	19	*	*
	I821-50	50	4	*	100	*	25	*	*
	I821-75	75	4	*	145	*	38	*	*
	I821-100	100	4	*	200	*	50	*	*
	I821-125	125	4	*	250	*	65	*	*
	I821-150	150	4	*	250	*	75	*	*
Wall/Corner Wall/Ceiling	I821-C-25	25	4	*	70	*	13	*	*
	I821-C-38	38	4	*	70	*	19	*	*
	I821-C-50	50	4	*	70	*	25	*	*
	I821-C-75	75	4	*	115	*	38	*	*
	I821-C-100	100	4	*	150	*	50	*	*
	I821-C-125	125	4	*	200	*	65	*	*
	I821-C-150	150	4	*	200	*	75	*	*

i870®



Description

The i870® wall + ceiling expansion joint system is a surface mount design making it a great solution for retrofit projects.

Key Features

Install Condition: Wall/Wall, Ceiling/Ceiling .

Joint width: 25-100mm.

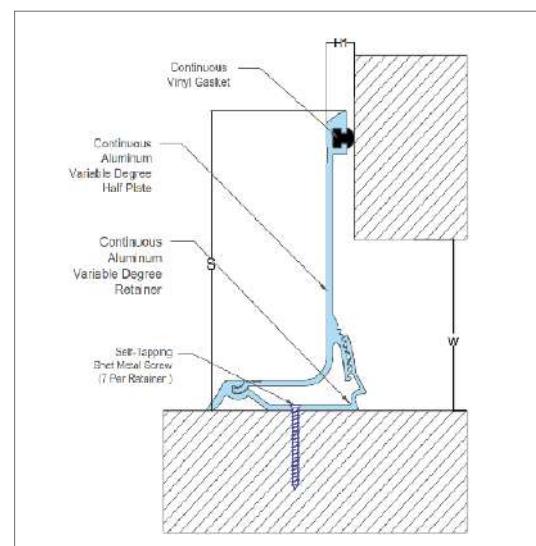
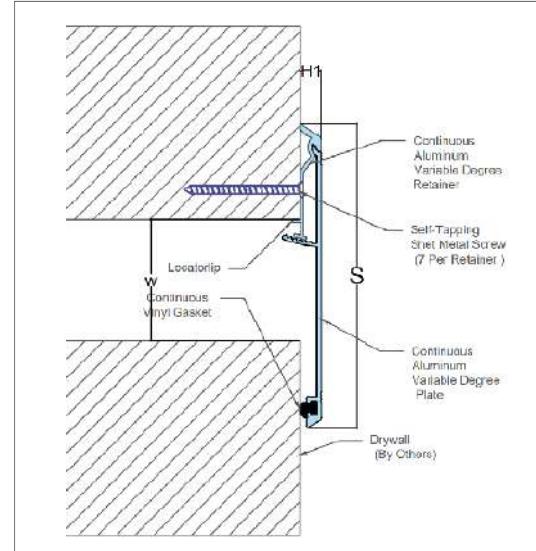
Optional fire rated.

Designed for interior walls and ceilings.

Unique ratcheted design accommodates uneven or odd angle wall conditions.

Snap-fit cover plate design hides the fasteners and allows for quick on-site assembly.

Economical solution for retrofit and surface mount installations.

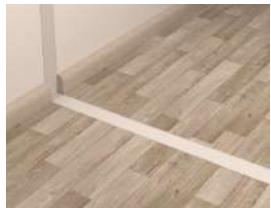


Movement $\pm 25\%$

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Wall/Wall Ceiling/ Ceiling	i870-25	25	9	*	79	*	13	*	*
	i870-50	50	9	*	118	*	25	*	*
	i870-75	75	9	*	156	*	38	*	*
	i870-100	100	9	*	194	*	50	*	*
Wall/Corner Wall/Ceiling	i870-C-25	25	9	*	44	*	13	*	*
	i870-C-50	50	9	*	83	*	25	*	*
	i870-C-75	75	9	*	121	*	38	*	*
	i870-C-100	100	9	*	159	*	50	*	*

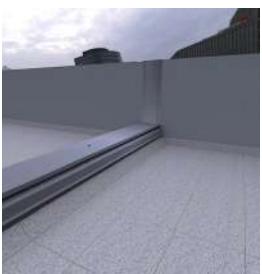
INTERIOR

It provides practical solutions suitable for interior finishes within buildings, whether installed on floors, walls, or ceilings. It also withstands movement caused by thermal changes in the structures.



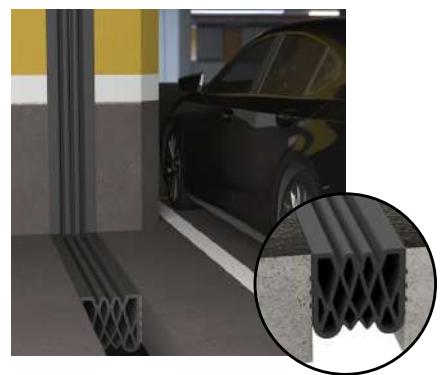
EXTERIOR

Manufactured from durable materials that make it capable of absorbing movements caused by the expansion and contraction of the structure, while remaining resistant to external factors such as direct exposure to sunlight, rain, and wind, preventing erosion or damage.



HEAVY DUTY

Equipped with a feature that enables it to withstand the high loads and pressures encountered in certain structures, such as factories, airports, and warehouses.



OUR PROJECT

A well rounded mixed-use destination where vibration amplifies and energy multiplies.

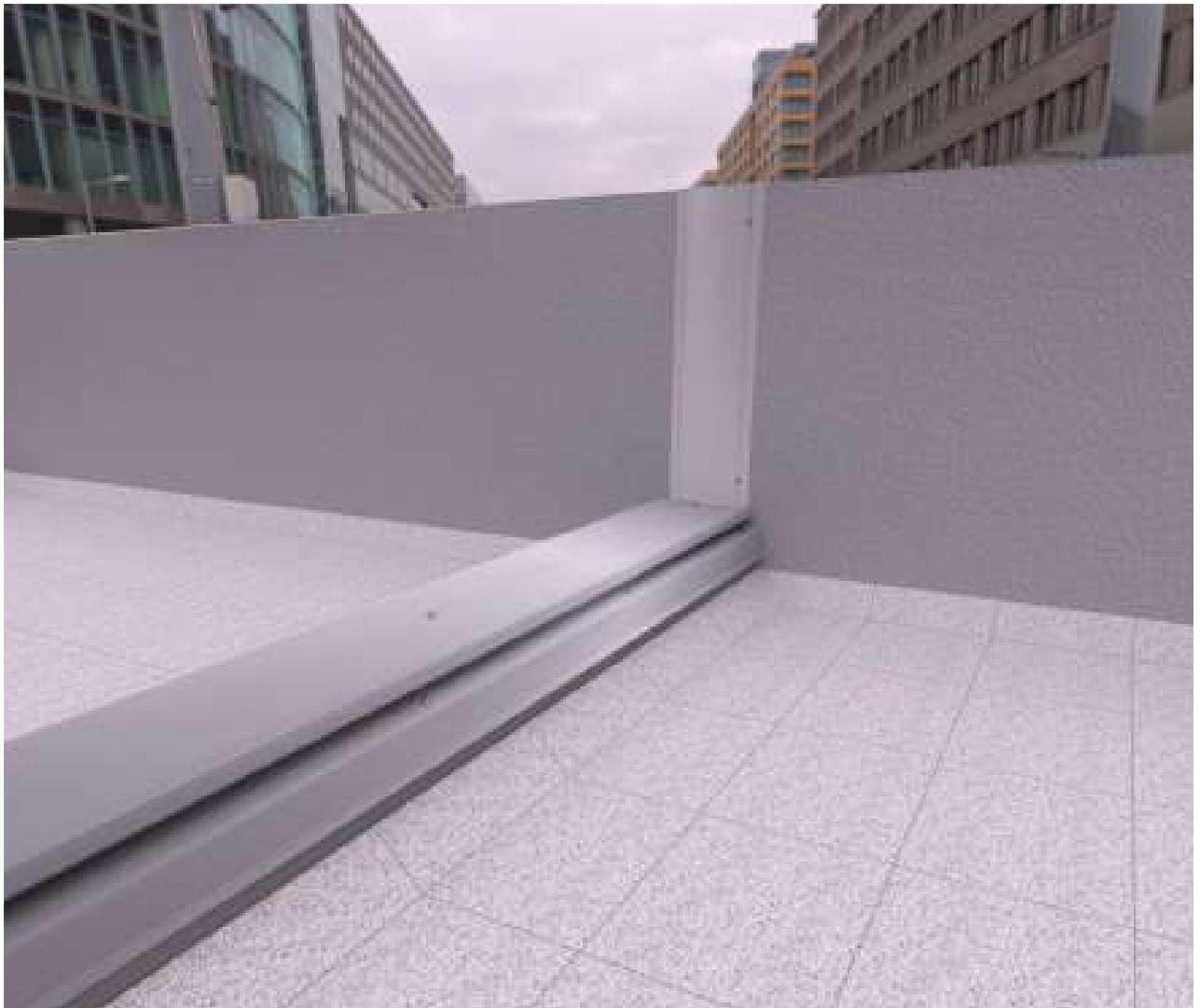
Master planned by SOM, One Ninety adopts a unique leveling technique to elevate a holistic outlook on integrated living, rolling out on 344,315 m².

A new degree of extraordinary, inviting all corners of the world in the heart of New Cairo to dictate a trendsetting lifestyle, as well as a sensory feast, complemented by a 34,553 m² Urban Park where native flora and cosmopolitan cultures thrive.

ONE NINETY



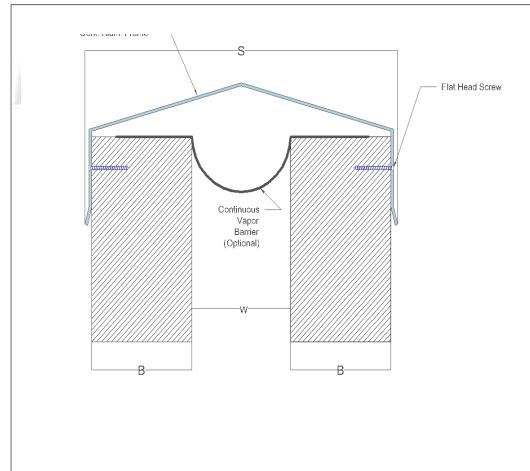
Location	New Cairo
Client	LMS
Consultant	Sabbour
Contractor	LMD
Quantities	310 M
iChem products used	i920-50i + EPDM iFlex + sealant(Flex seal STP) & Backer rod (iFlex BR) Floor system



EXTERIOR JOINT SYSTEM

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Load
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i110®



Description

The **i110®** roof expansion joint system accommodates multi-directional seismic movement and is installed with a 2x up stand mount.

Key Features

Install Condition: Roof/Roof, Roof/Wall.

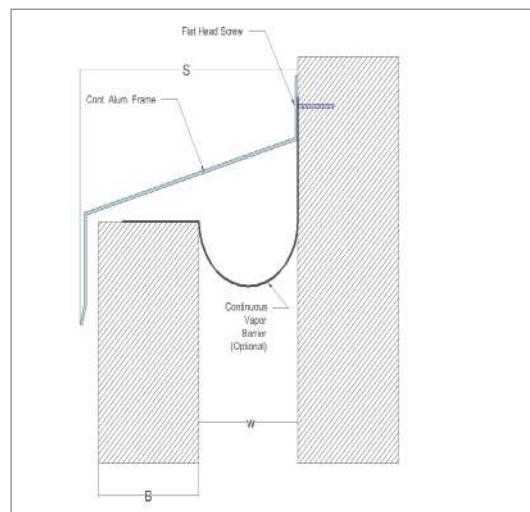
Joint width: Manufactured according to site requirements.

Optional fire rated.

Seamlessly integrates with coordinating Wall system.

Applicable for existing conditions, additions and new construction.

Mill finish aluminum.



Movement $\pm 50\%$

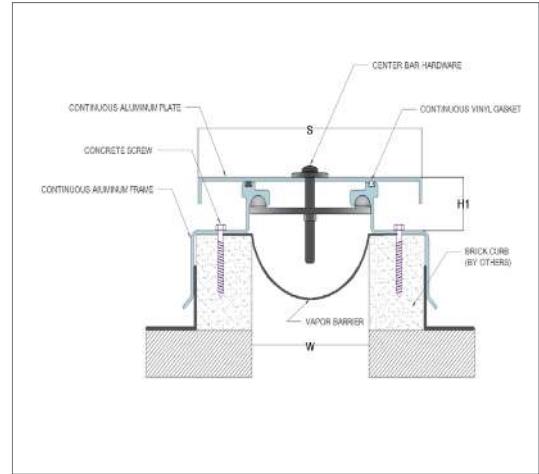
Application	System	W	H1	H2	S	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	Kn
Roof to Roof	Manufactured according to site requirements							*
Roof to Wall	Manufactured according to site requirements							*

i120®



Description

The **i120®** roof expansion joint system accommodates multi-directional seismic movement and is installed with a 2x up stand mount.



Key Features

Install Condition: Roof/Roof, Roof/Wall.

Joint width: 50-350mm.

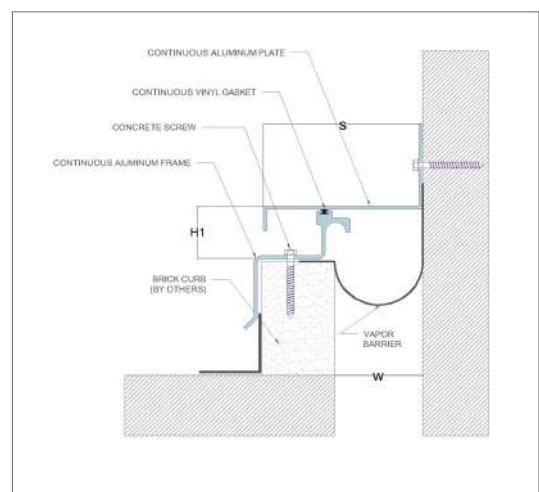
Optional fire rated.

Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

Applicable for existing conditions, additions and new construction.

Mill finish aluminum.



Movement $\pm 50\%$

Application	System	W	H1	H2	S	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	Kn
Roof to Roof	i120-50	50	32	*	130	25	25	*
	i120-75	75	32	*	160	38	38	*
	i120-100	100	32	*	185	50	50	*
	i120-150	150	32	*	265	75	75	*
	i120-200	200	32	*	345	100	100	*
	i120-250	250	32	*	420	125	125	*
	i120-300	300	32	*	495	150	150	*
	i120-350	350	32	*	570	175	175	*
Roof to Wall	i120-C-50	50	32	*	95	25	25	*
	i120-C-75	75	32	*	125	38	38	*
	i120-C-100	100	32	*	165	50	50	*
	i120-C-150	150	32	*	240	75	75	*
	i120-C-200	200	32	*	320	100	100	*
	i120-C-250	250	32	*	395	125	125	*
	i120-C-300	300	32	*	470	150	150	*
	i120-C-350	350	32	*	545	175	175	*

i130®



Description

The i130® roof expansion joint system accommodates multi-directional seismic movement and is installed with a 2x up stand mount.

Key Features

Install Condition: Roof/Roof, Roof/Wall .

Joint width: 50-350mm.

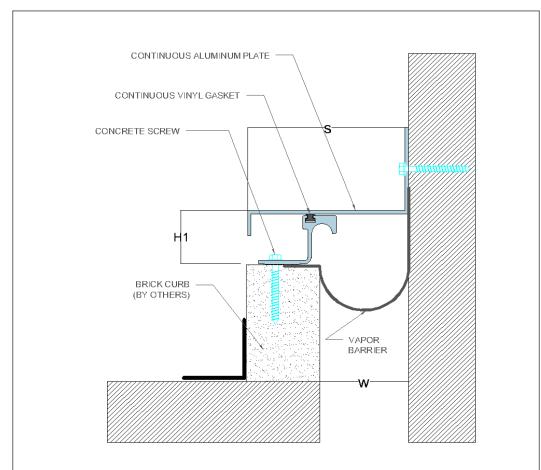
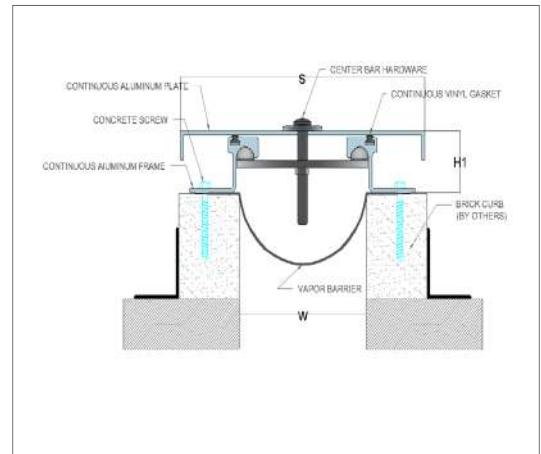
Optional fire rated.

Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

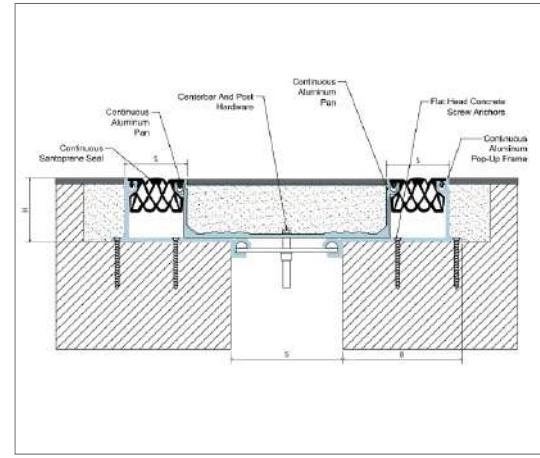
Applicable for existing conditions, additions and new construction .

Mill finish aluminum.



Movement ± 50%

Application	System	W	H1	H2	S	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	Kn
Roof to Roof	i130-50	50	32	*	130	25	25	*
	i130-75	75	32	*	160	38	38	*
	i130-100	100	32	*	185	50	50	*
	i130-150	150	32	*	265	75	75	*
	i130-200	200	32	*	345	100	100	*
	i130-250	250	32	*	420	125	125	*
	i130-300	300	32	*	495	150	150	*
	i130-350	350	32	*	570	175	175	*
Roof to Wall	i130-C-50	50	32	*	95	25	25	*
	i130-C-75	75	32	*	125	38	38	*
	i130-C-100	100	32	*	165	50	50	*
	i130-C-150	150	32	*	240	75	75	*
	i130-C-200	200	32	*	320	100	100	*
	i130-C-250	250	32	*	395	125	125	*
	i130-C-300	300	32	*	470	150	150	*
	i130-C-350	350	32	*	545	175	175	*

i424®**Description**

The **i424®** floor expansion joint system is pan system. Designed for generous thermal and seismic movement requirements.

Key Features

Install Condition: Floor/Floor, Floor/Wall.

Joint width: 50-100mm.

Optional fire rated.

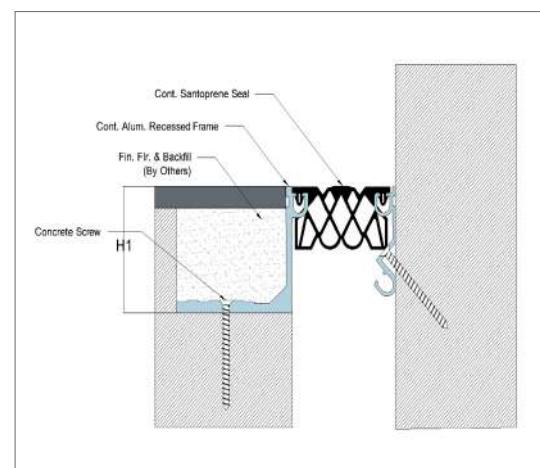
Seamlessly integrates with coordinating Wall system.

Anti-slip surface serrations.

Applicable for existing conditions, additions and new construction.

System can be modified to meet any movement.

Mill finish aluminum.

**Movement \pm 50%**

Application	System	W	H1	H2	S	B	Movement +/-		Load
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor to Floor	i424-50	50	57	*	55	155	25	50	Vehicle
	i424-100	100	57	*	110	155	50	50	Vehicle
	i424-150	150	57	*	110	155	75	50	Vehicle
	i424-200	200	57	*	110	155	100	50	Vehicle
	i424-250	250	57	*	110	155	125	50	Vehicle
	i424-300	300	57	*	110	155	150	50	Vehicle
	i424-350	350	57	*	110	155	175	50	Vehicle
Floor to Wall	i424-C-50	50	57	*	55	155	15	50	Vehicle
	i424-C-100	100	57	*	110	155	25	50	Vehicle
	i424-C-150	150	57	*	110	155	35	50	Vehicle
	i424-C-200	200	57	*	110	155	50	50	Vehicle
	i424-C-250	250	57	*	110	155	65	50	Vehicle
	i424-C-300	300	57	*	110	155	80	50	Vehicle
	i424-C-350	350	57	*	110	155	95	50	Vehicle

i720®



Description

The i720® exterior wall + ceiling expansion joint system is flush mounted to reduce sightline. Additionally, the pleated seal comes in a variety of colors to blend into your wall material.

Key Features

Install Condition: Wall/Wall, Ceiling/Ceiling.

Joint width: 50-150mm.

Flush mount interior and exterior systems reduce sightline.

i900 TR® seals - Field heat weldable for weather tight transitions.

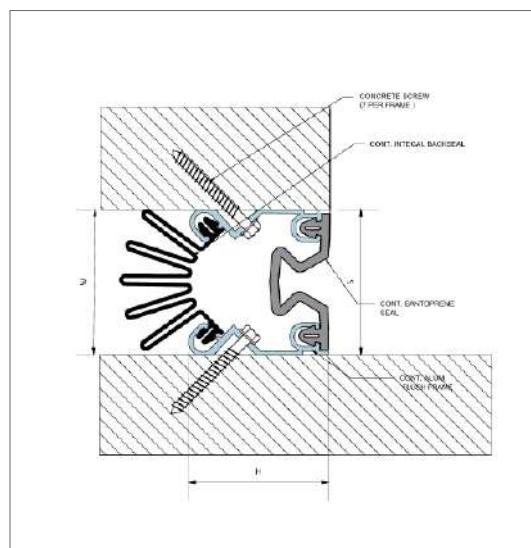
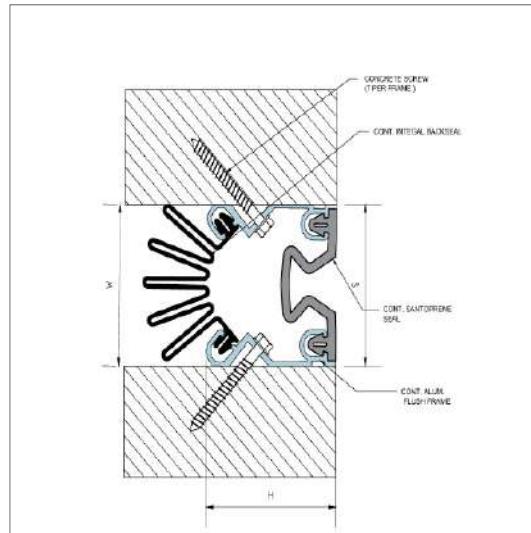
Standard seal colors: black, beige, gray, off white and bright white.

Custom colors available upon request.

4 component exterior system includes integral backseal.

May be installed to various substrates with mechanical anchors or epoxy adhesive.

Mill finish aluminum.



Movement $\pm 50\%$

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	mm	Kn
Wall/Wall Ceiling/ Ceiling	i720-50	50	49	*	50	*	25	25	*
	i720-75	75	49	*	75	*	38	38	*
	i720-100	100	49	*	100	*	50	50	*
	i720-125	125	49	*	125	*	63	63	*
	i720-150	150	49	*	150	*	75	75	*
Wall/Corner Wall/Ceiling	i720-C-50	50	49	*	50	*	25	25	*
	i720-C-75	75	49	*	75	*	38	38	*
	i720-C-100	100	49	*	100	*	50	50	*
	i720-C-125	125	49	*	125	*	63	63	*
	i720-C-150	150	49	*	150	*	75	75	*

i750®



Description

The i750® interior wall + ceiling expansion joint system is flush mounted to reduce sightline. Additionally, the pleated seal comes in a variety of colors to blend into your wall material.

Key Features

Install Condition: Wall/Wall, Ceiling/Ceiling.

Joint width: 150-300mm.

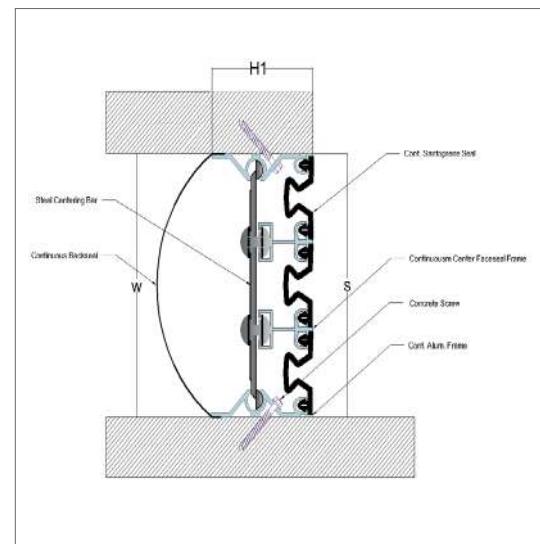
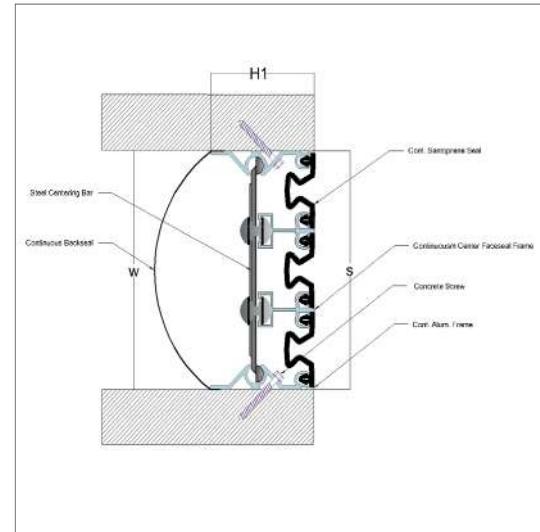
Flush mount interior systems reduce sightline.

Standard seal colors: black, beige, gray, off white and bright white.

Custom colors available upon request.

May be installed to various substrates with mechanical anchors or epoxy adhesive.

Mill finish aluminum.



Movement \pm 50%

Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width mm	Frame Height 1 mm	Height 2 mm	Sightline mm	Blockout mm	Horizontal	Vertical	
							mm	mm	
Wall/Wall Ceiling/ Ceiling	i750-150	150	75	*	150	*	75	75	*
	i750-200	200	75	*	200	*	100	100	*
	i750-250	250	75	*	250	*	125	125	*
	i750-300	300	75	*	300	*	150	150	*
Wall/Corner Wall/ Ceiling	i750-C-150	150	75	*	150	*	75	75	*
	i750-C-200	200	75	*	200	*	100	100	*
	i750-C-250	250	75	*	250	*	125	125	*
	i750-C-300	300	75	*	300	*	150	150	*

OUR PROJECT

O West October project is an integrated residential complex by Orascom Real Estate, which is one of the most famous companies in the field of real estate development in Egypt and abroad with more than 30 years of experience of success

The area of O West Orascom project is one of the features of the compound, because the area of O West reaches 1000 acres, which makes O West Orascom project one of the giant projects, and O West Compound rises from the surrounding area with a height ranging from 30 to 50 m above the ground.

The area of O West October project was divided as follows

20% of buildings are divided into 60% villas, 20% residential apartments, and 20% services

The remaining 80% are for landscaping and artificial lakes

O - WEST



Location

6 October city

Client

Orascom Development

Consultant

Nature for Engineering Consultancy

Contractor

RED SEA Construction

Quantities

762 M

iChem products used

I424-50 with pvc Exterior systems

I424-c-50 with pvc Exterior systems

I830-50 I331-50

I710-50 I317-50

I330-50 I870-50



COMPRESSION SEALS

iFlex CS®



Description

The **iFlex CS®** is a The unique design creates crisp sight lines and incorporates ribs on the sides to aid in pooling **EpoMortar SF®** and adding surface area for increased adhesion during installation. Comprised of Rubber, this system has superior movement while being highly resistant to UV degradation, extreme temperatures, and chemicals.

Key Features

Install Condition: Floor/Floor.

Joint width: 25-100mm.

Optional fire rated.

Heavy pedestrian/moderate vehicular loading.

Heat weldable for watertight seams.

Excellent adhesion to many materials.

Weather and water resistant.

UV resistant.

Good resistance to many chemicals.

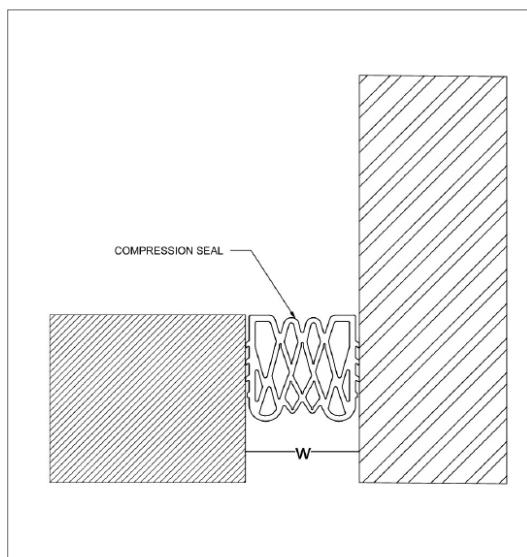
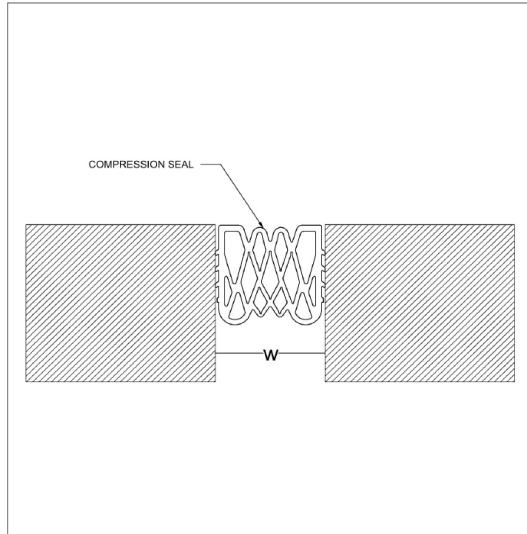
Versatile system suitable for many difficult situations.

Extremely flexible.

Material

TPE :Stander Color(Beige-Gray-Black -White)

EPDM :Stander Color(Black)



Movement $\pm 50\%$

System	W	H1	H2	S	B	Movement +/-	Load
	Joint Width	Frame Height 1	Height 2	Sightline	Blockout	mm	Vehicle
	mm	mm	mm	mm	mm		
iFlex CS -25	25	56	*	25	*	12.5	Vehicle
iFlex CS -50	50	70	*	50	*	25	Vehicle
iFlex CS -75	75	80	*	75	*	35	Vehicle
iFlex CS -100	100	90	*	100	*	50	Vehicle
iFlex CS -C-25	25	56	*	25	*	12.5	Vehicle
iFlex CS -C-50	50	70	*	50	*	25	Vehicle
iFlex CS -C-75	75	80	*	75	*	35	Vehicle
iFlex CS -C-100	100	90	*	100	*	50	Vehicle

iFlex CSW®



Description

The **iFlex CSW**® is a The unique design creates crisp sight lines and incorporates ribs on the sides to aid in pooling **EpoMortar SF**® and adding surface area for increased adhesion during installation. Comprised of Rubber, this system has superior movement while being highly resistant to UV degradation, extreme temperatures, and chemicals.

Key Features

Install Condition: Floor to Floor.

Joint width: 25-100mm.

Optional fire rated.

Heavy pedestrian/moderate vehicular loading.

Heat weldable for watertight seams.

Excellent adhesion to many materials.

Weather and water resistant.

UV resistant.

Good resistance to many chemicals.

Versatile system suitable for many difficult situations.

Extremely flexible.

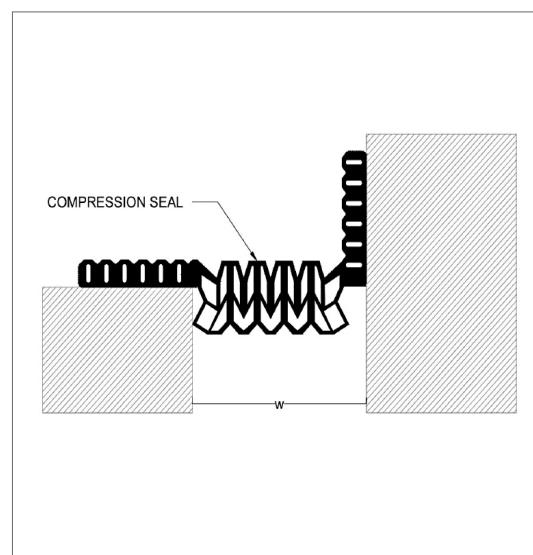
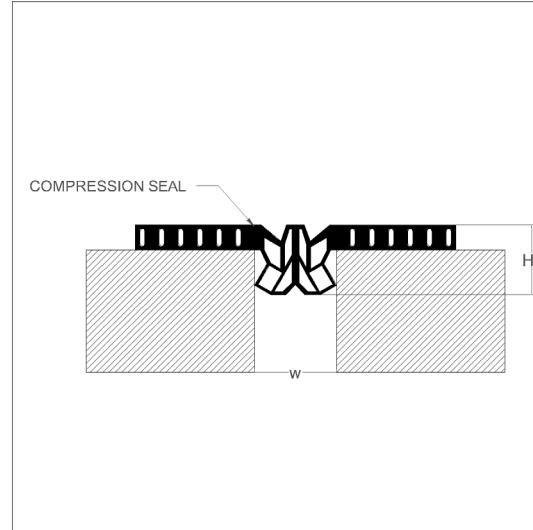
Material

TPE :Stander Color(Beige-Gray-Black -White)

EPDM :Stander Color(Black)

Movement ±50%

System	W	H1	H2	S	B	Movement +/-	Load
	Joint Width	Frame Height 1	Height 2	Sightline	Blockout	mm	
	mm	mm	mm	mm	mm		
iFlex CSW -25	25	45	*	195	*	12.5	Vehicle
iFlex CSW -50	50	45	*	220	*	25	Vehicle
iFlex CSW -75	75	45	*	245	*	35	Vehicle
iFlex CSW -100	100	45	*	270	*	50	Vehicle
iFlex CSW -C-25	25	45	*	110	*	12.5	Vehicle
iFlex CSW -C-50	50	45	*	135	*	25	Vehicle
iFlex CSW -C-75	75	45	*	160	*	35	Vehicle
iFlex CSW -C-100	100	45	*	185	*	50	Vehicle



iFlex CSL®



Description

The iFlex CSL® is a The unique design creates crisp sight lines and incorporates ribs on the sides to aid in pooling.

EpoMortar SF® and adding surface area for increased adhesion during installation. Comprised of Rubber, this system has superior movement while being highly resistant to UV degradation, extreme temperatures, and chemicals.

Key Features

Install Condition: Floor to Floor.

Joint width: 25-100mm.

Optional fire rated.

Heavy pedestrian/moderate vehicular loading.

Excellent adhesion to many materials.

Weather and water resistant.

UV resistant.

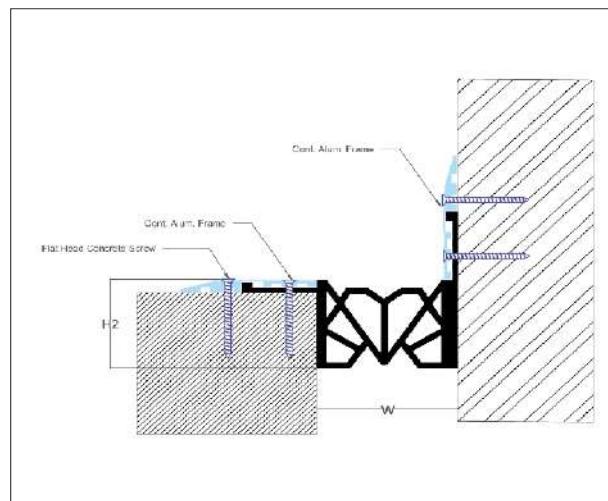
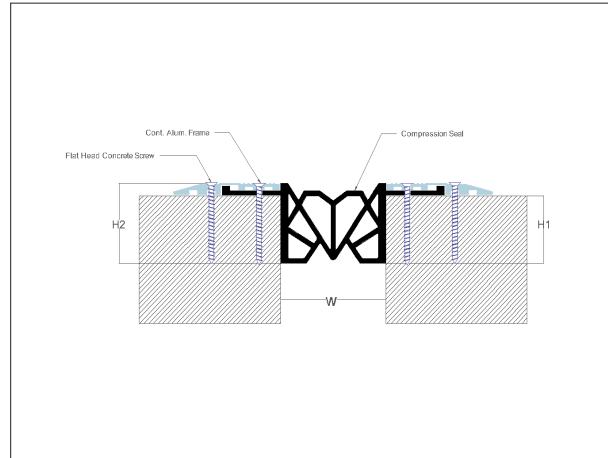
Good resistance to many chemicals.

Mill finish aluminum.

Material

TPE :Stander Color(Beige-Gray-Black -White)

EPDM :Stander Color(Black)



Movement ±50%

System	W	H1	H2	S	B	Movement +/- mm	Load Vehicle
	Joint Width	Frame Height 1	Height 2	Sightline	Blockout		
	mm	mm	mm	mm	mm		
iFlex CSL -25	25	40	*	167	*	12.5	Vehicle
iFlex CSL -50	50	50	*	192	*	25	Vehicle
iFlex CSL -75	75	65	*	217	*	35	Vehicle
iFlex CSL -100	100	82	*	242	*	50	Vehicle
iFlex CSL -C-25	25	40	*	96	*	12.5	Vehicle
iFlex CSL -C-50	50	50	*	121	*	25	Vehicle
iFlex CSL -C-75	75	65	*	146	*	35	Vehicle
iFlex CSL -C-100	100	82	*	171	*	50	Vehicle

Discover iChem's Specialized Expansion Joints for Rare Applications

RAISED FLOORS

If you are using raised floors to route cables, wires, ventilation, or cooling systems in offices, data centers, or any other location, iChem provides strong and flexible expansion joints that protect the building from cracks and damage while maintaining an organized appearance.



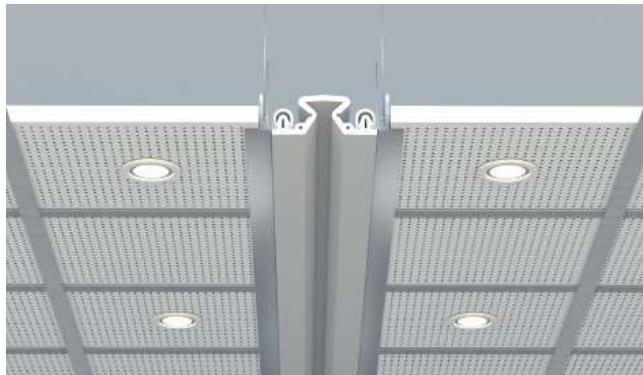
CURTIN WALLS

iChem expansion joints for curtain walls are designed to align perfectly with the wall structure, allowing natural movement of the framework due to temperature changes and wind pressure. They prevent cracks or damage in the structure, ensuring the safety and sustainability of curtain walls under various conditions.



GUPSUM BOARD (FALSE CEILING)

The expansion joints designed for gypsum board false ceilings work to distribute pressure effectively and avoid any negative impact on their external appearance caused by environmental conditions. They ensure the stability and quality of the ceiling while delivering a cohesive and visually appealing final design.



OUR PROJECT

Rock Capital One Mall in the Creative Financial District: It is the number one building in the Financial District in the New Administrative Capital, constantly stopping at vital areas and landmarks. Rock Capital One Mall overlooks a main street, 850 meters wide, and another 34 meters wide.

Rock Capital One covers approximately 5 acres.

Rock Capital One New Capital was built on 30% of the area, with the remainder allocated to green spaces and landscaped gardens.

Rock Capital One consists of a ground floor and seven floors. All units in Rock Capital One New Capital enjoy direct views, and there are no standalone units.

It includes Rock Capital Mall, as well as medical and administrative units.

ROCK CAPITAL



Location	New Administrative Capital
Client	El Batal
Consultant	El Batal development
Contractor	B1 Investment
Quantities	1739 M
iChem products used	i330 Floor systems i830 Floor Systems iFlex CSW iFlex CS



FIRE + MOISTURE BARRIERS

FS i1005®

Description

The FS i1005® is economical fire barrier system from ceramic fiber that protect your building and the people inside from the spread of smoke.



Key Features

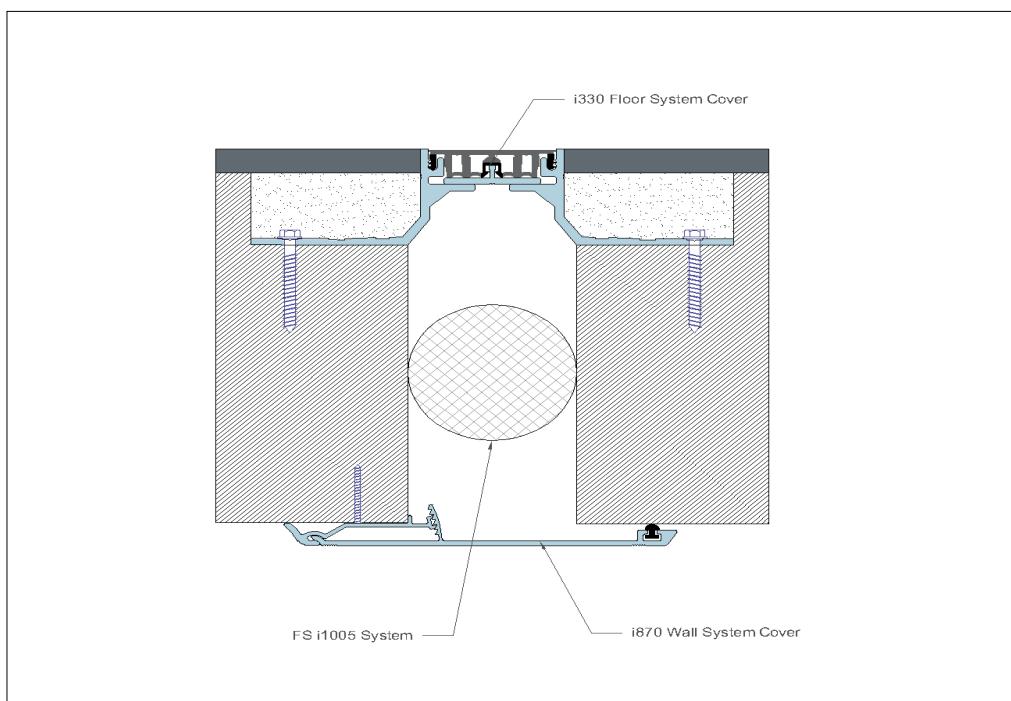
Install Condition: Horizontal and Vertical.
Joint width: 25-50mm.
Fire barrier system for 2 and 3 Hr. Fire Ratings.
Designed for interior and exterior expansion joints.
No mechanical fastening required for installation.
Color: White.

Material

Ceramic Fiber Blanket.

Packaging

Available in: Rolls of 2m.



FS i1010®

Description

The FS i1010® is fire barrier system that protect your building and the people inside from the spread of smoke and fire easier than ever before.

Key Features

Install Condition: Horizontal and Vertical.

Joint width: 50-250mm.

Fire barrier system for 1 and 2 Hr. Fire Ratings.

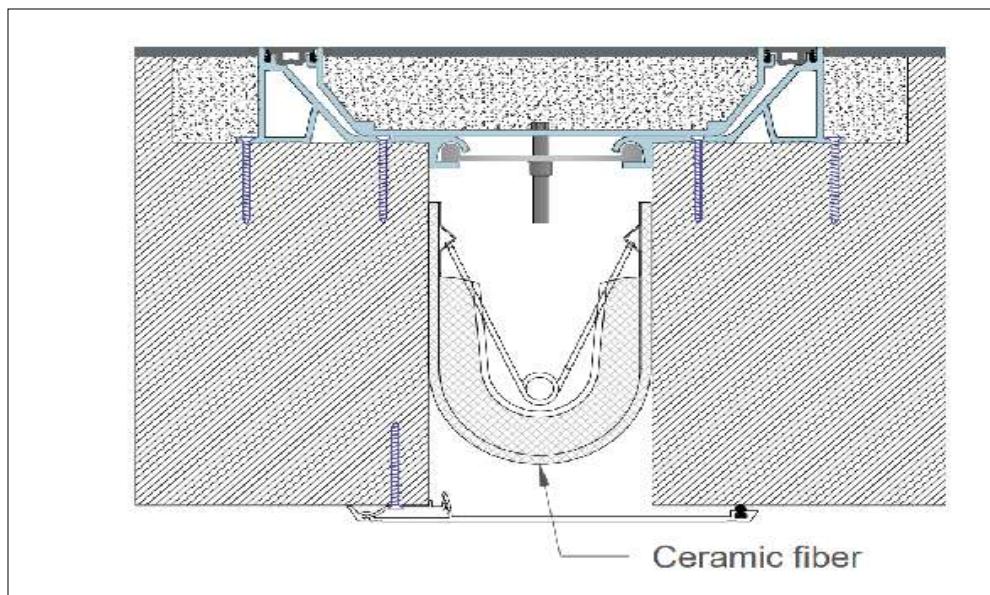
Designed for interior and exterior expansion joints.

No mechanical fastening required for installation.



Packaging

Available in: Rolls of 2m.



iFlex PVC®

Description

The **iFlex PVC®** is a non reinforced liner on base of plasticized polyvinylchloride PVC, type T according to Standard EN 13967.

iFlex PVC® is produced by extrusion of the selected secondary raw materials of PVC without other polymer materials.



Key Features

- Excellent adhesion to many materials.
- Weather and water resistant.
- UV resistant.
- Available with normal and rapid hardening grades of adhesive.
- Root resistant.
- Good resistance to many chemicals.
- Versatile system suitable for many difficult situations.
- Extremely flexible.

Uses

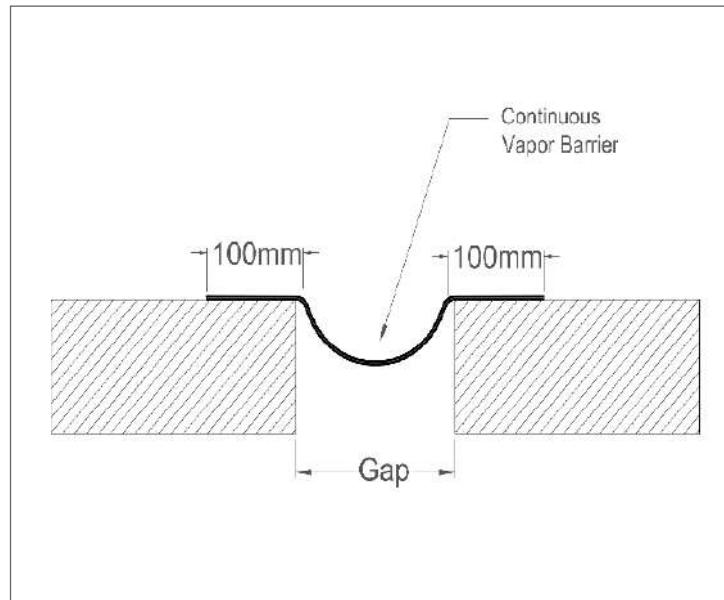
- Sealing system for expansion, construction and connection joints in oints with extreme movement.
- Water retaining structures and drinking water reservoirs.
- Hydro electric power plants.
- Sewage treatment plants.
- Basements.
- Swimming pools.

Packaging

Available in: Rolls of 20m.

Thickness: 1.5mm.

Width: 20, 25, 32cm.



iFlex EPDM®

Description

The **iFlex EPDM®** is a type of synthetic rubber that is commonly used across many industries.

iFlex EPDM® is made from ethylene, propylene, and diene monomers and is a very versatile and durable type of rubber with many applications.

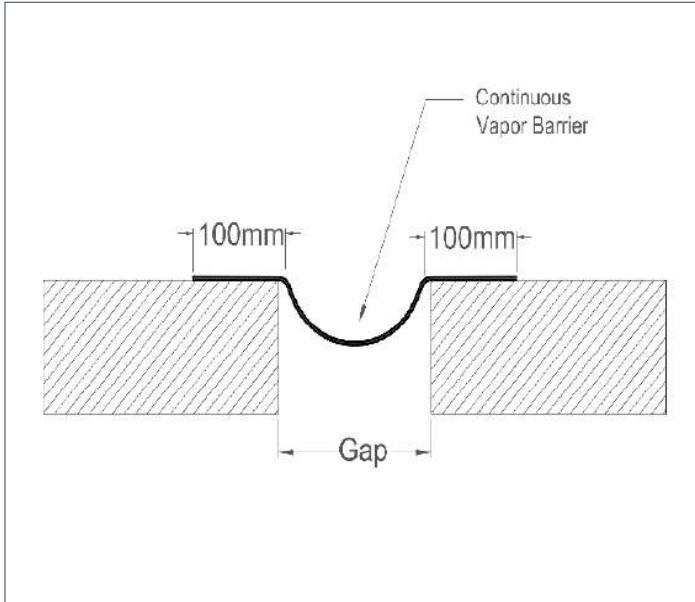
Key Features

- Excellent adhesion to many materials.
- Extremely flexible.
- Weather and water resistant.
- UV resistant.
- Root resistant.
- Available with normal and rapid hardening grades of adhesive.
- Good resistance to many chemicals.
- Versatile system suitable for many difficult situations.



Technical Properties

Tensile Strength	11.67N/mm ²
Tear Strength	13.54N/mm
Shore A Hardness	91%
Elongation at Break	320%
Thickness	1.5mm
color	Black
polymer	EPDM



Packaging

Available in: Rolls of 20m.

Thickness: 1.5mm.

Width: 20, 25, 30, 50cm.

ChemSeal 1®

Description

The ChemSeal 1® is a one-component, medium-modulus polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to all typical construction materials with excellent weathering resistance.

Key Features

- Possesses permanent elasticity.
- Excellent weatherability.
- Paintable.
- No surface tackiness after full cure.
- Excellent adhesion without priming.
- Highly resistant to sea water, diluted acids and alkalis.
- No shrinkage.
- UV resistant/ fast curing.
- Low VOC.
- Easy to gun, Easy to tool.

Uses

- Expansion joints between many different construction materials.
- Indoor and outdoor applications for pedestrian and traffic areas.
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- For expansion joints between pre-cast concrete panels.
- Glazing joints of windows, door frames and curtain walls.



Packaging

600ml sausage.

Technical Properties

Basis	Polyurethane	
Density	1.40 ± 0.5 gm/cm ³	
Tack free time	120min. (25 °C)	
Curing Rate	7 days	
Temperature Resistance	-40 °C to +90 °C	
Application Temperature	+5 °C to +40 °C	
Hardness Shore A	40 ±5	(ASTM C661)
Elastic Recovery	Yes	
Elongation at break	Min. 100%	(ISO 8339)
Elongation at break	> 355 %	(ASTM D412)
Tensile Strength	1.5 - 2.0 N/mm ²	(ASTM D412)
Color	White / Black / Grey	

ChemSeal PU®

Description

The **ChemSeal PU®** is a one component, gun grade non sag, moisture-cure polyurethane sealant. **ChemSeal PU®** is ideal for sealing most types of joints in construction structures and buildings with excellent weathering resistance and excellent adhesion to most building materials.

Key Features

- Permanently flexible, excellent weatherability.
- Paintable.
- Single component & convenient packing.
- Excellent adhesion without priming.
- Highly resistant to sea water, diluted acids and alkalis.
- Odourless.
- UV resistant/ fast curing.
- Low VOC.
- Easy to gun, Easy to tool.
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance.
- Non-sticky after cure.



Packaging

600ml sausage.

Uses

- Sealant is designed to seal concrete construction joints.
- To seal waterproof rivet seams and roof rails.
- Sealing of dynamic structural cracks.
- Sealing Air conditioning equipment, flashing and gutters.
- Glazing joints of windows and door frames.

Technical Properties

Specific Gravity	1.24 - 1.30 g/ml @ 25°C (ASTM D1475)
Tensile Strength	>0.6 N/mm ² (ASTM D412)
Elongation at break	>150% (ASTM D412)
Hardness shore A	27 - 33 (ASTM D2240)
VOC	<25 g/L (USEPA Method 24)
Flow	Non-Sag (ASTM C639)
Skin Over Time	10 - 35 @ 25°C, Minutes
Application Temperature	+5 to + 40 °C
Service Temperature	-20 to +80 °C
Color	White,Beige, Gray and Black

ChemSeal PS®

Description

The ChemSeal PS® is a two component non - sag high performance joint sealant based on Polysulphide which provides a flexible seal for vertical and horizontal joints.

Key Features

- Permanently flexible, excellent weatherability.
- Two component.
- Excellent adhesion adhesion to all materials.
- Highly resistant to sea water, chemicals and normal weathering.
- Not toxic.
- Fast curing.
- Easy to use.



Uses

- Sealant is designed to seal concrete construction joints.
- To seal waterproof rivet seams and roof rails.
- Sealing air conditioning equipment, flashing and gutters.
- Glazed units, curtain walling systems and similar structures where thermal movement can be high.

Packaging

4 Liters (in 2 components).

Technical Properties

Specific Gravity	1.6 ± 0.05 kg/l
Movement factor	± 50 %
Application Temp	4 °C to 60 °C
Service Temp	- 40 °C to 80 °C
Shrinkage	Nil
Hardness shore A	25-50
Skin Over Time	10 - 35 @ 25°C, Minutes
Final setting Hardness	7 days
Pot life	Non sag 4 hours, Pouring 2 hours @ 25 °C
Color	Grey

iFlex BR®

Description

The iFlex BR® Foam Backer Rod Closed Cell is manufactured from closed cell, low density, polyethylene foam.

iFlex BR® Foam Backer Rod Closed Cell has excellent compression and recovery properties, is available in various sizes and lengths. The round profile assists in providing the correct joint sealant profile allowing optimum movement capability.

Key Features

- Easy to use.
- Extremely flexible.
- Excellent recovery after compression.
- Water resistant.
- Closed cell.
- Compatible with cold applied sealants polyurethane, silicone.
- Assists with sealant profile.
- Assists with joint design.

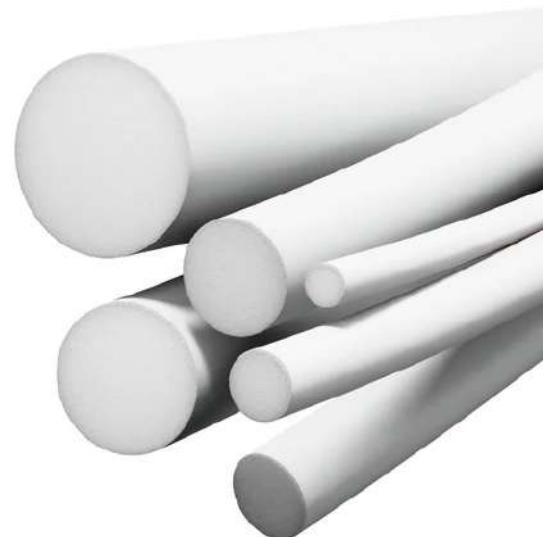
Uses

The iFlex BR® Foam Backer Rod is especially recommended for use in:

- Joint sealant support for concrete flooring.
- Expansion joints in concrete structures.
- Water treatment plants.
- Potable water structures :Tanks, Canals, reservoirs.

Packaging

Size	Packing
10mm	100m Roll
15mm	100m Roll
20mm	100m Roll
25mm	100m Roll
30mm	100m Roll
40mm	2m Rod
50mm	2m Rod



Technical Properties

Color	White
Density	0.025 ~ 0.040 gm / cm ³
Average Cell Size	0.26 ~ 0.33
Tensile Strength	2.2 – 3.4 kg / cm ²
Elongation	130 ~ 140 %
Permanent Compression set	5.0 %
Dielectric Constant	1.05 ~ 1.58 E (kHz)
Sound properties	Good
Toxic character	Non toxic.
Chemicals Resistance	Excellent
Thermal Conductivity	0.027 ~ 0.040 hr °C
Water Absorption	0.03 below mg / cm ²
Combustion Rate	6.40 ~ 10.0 cm / min
Heat Distortion temperature	70 ~ 80°C
Repeated Compression set:	2.2 – 2.40 %

iFlex RS®

Description

The iFlex RS® is extruded polyethylene sheet closed cell foam.



Key Features

- Available in several colors.
- Easy to Apply.
- Compatible with cold sealants materials.
- Different thicknesses and widths available.
- Highly flexible & compressible.
- Good water resistance.
- Good temperature resistance.
- Closed Cell.

Uses

The iFlex RS® As a backing material for applied joint, and as a joint filler, due to its highly permanent elasticity, which is most efficient for these purposes.

The iFlex RS® As a used in a wide range of flooring gyms and areas of children's games and kindergarten.

Storage

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf Life

Shelf life is up to 60 months when stored as per recommendations.

Quality, Environmental & HS

All products manufactured by iChemEG, or imported from iChemEG affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems.

Technical support

For any technical support, please contact IChem technical office or representatives.

Technical Properties

Compression	> 95 %
Tensile strength	8 kg/cm3
Density	100-130 kg/cm3
Elongation	300%
Base	Treated polyethylene
Composition	Extruded closed-cell Polyethylene
Color	Black and other colors as needed

Packaging

Sheets 1m x 1&2 m in required thickness.
Available thicknesses: 5-10-20-30-40-50 mm.

THERMAL MOVEMENT & SEISMIC MOVEMENT

WHAT IS THE DIFFERENCE?

Thermal Movement

- Thermal movement occurs due to changes in temperature (increase or decrease), and its effects appear gradually over time.
- This movement takes the form of expansion or contraction of building materials, such as concrete or steel, which may lead to weakened connections between different parts of the building and cause cracks in walls or ceilings.



Seismic Movement

- Seismic movement occurs during earthquakes, tremors, or any geological activity underground, and its effects are sudden and violent depending on the intensity of the earthquake or tremor.





ichem®
building solutions

PROFILE

CATEGORY

CONTROL JOINT PROFILE

- i340
- i345
- i348

PROFILES FOR FLOOR AND WALLS

▪ i3010	▪ i3022	▪ i3060
▪ i3011	▪ i3030	▪ i3061
▪ i3020	▪ i3040	▪ i3062
▪ i3021	▪ i3050	▪ iFlash metal

STAIR NOSING PROFILE

- i2020
- i2025

SKIRTING PROFILE

- i4010
- i4011

OUR PROJECT

Mall Zaha Park New Capital is one of the most famous landmarks in the New Administrative Capital, and the first mall in Egypt whose design was inspired by the architect Zaha Hadid in the form of waves, making the entire mall distinctive in the MU23 area.

Zaha Park Mall covers an area of approximately 7,200 square meters and is divided into unique units, services, facilities, and entertainment venues. The mall has 9 floors in addition to the ground floor.

ZAHA PARK MALL

**Location**

New Cairo

Client

Better Home

Consultant

SABOUR

Contractor

Dfcon Construction builders

Quantities

380M

iChem products used

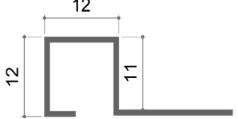
i412 Floor systems
i870 Wall Systems
IFLEX EPDM – Expo mortar SF



PROFILE FOR
FLOOR AND WALLS

i3010®

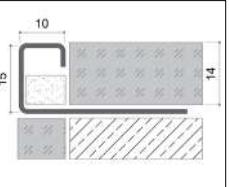
Properties

Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver					
	-Gold				Edges -	
	- Rose Gold	Stainless 304	0.8mm	280cm	Floor - Wall	



i3011®

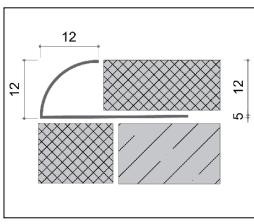
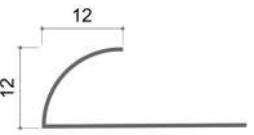
Properties

Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver					
	-Gold				Edges -	
		Stainless 304	1mm	280cm	Floor - Wall	



i3020®

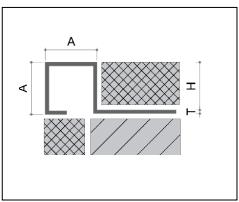
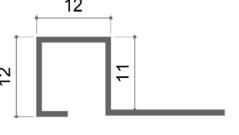
Properties

Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver		0.5mm	280cm		
	-Gold	Stainless 304	0.7mm		Edges	



i3021®

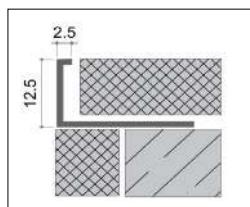
Properties

Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver		1mm	280cm		
	-Black	Aluminum			Edges - Floor - Wall	



i3022®

Properties

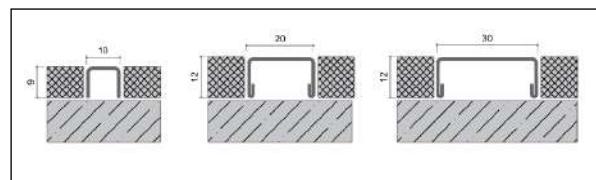


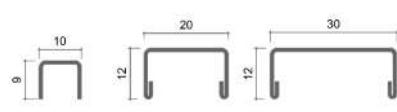
Products	Color	Material	Thickness	Width	Length	Used	Dimensions
	Silver	Aluminun	0.8mm	1cm	280cm	Floor - Wall	
	-Gold			- 2cm			
	- Rose Gold			-3cm			



i3030®

Properties

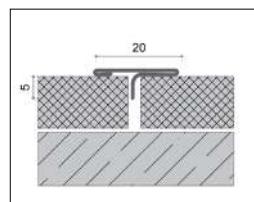


Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver	Stainless 304	0.8mm	300cm	Floor - Wall	
	-Gold					
	- Rose Gold					



i3040®

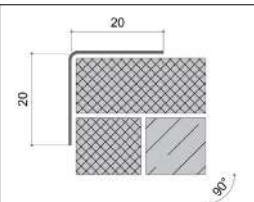
Properties

Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver					
-Gold		Stainless 304	0.6mm	300cm	Joints	
- Rose Gold						



i3050®

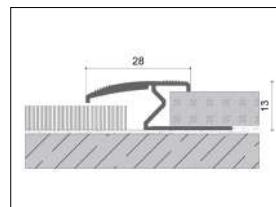
Properties

Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver					
-Gold		Aluminum & Stainless 304	1mm	300cm	Corner Guard & Stair nose	
- Rose Gold						



i3060®

Properties

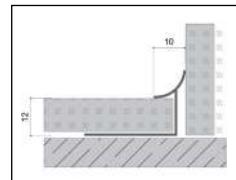


Products	Color	Material	Thickness	Width	Length	Used	Dimensions
	Silver	Aluminun	1mm	28mm	300cm	Floor hdf - Carpet	



i3061®

Properties

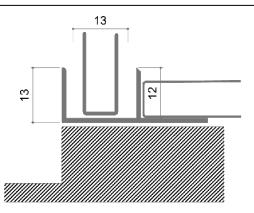


Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver	Aluminum	0.7mm	280cm	Internar Corner	



i3062®

Properties

Products	Color	Material	Thickness	Length	Used	Dimensions
	Silver - White - Black	Aluminum	1mm	300cm	Glass Profile - Edges	









iFlash Metal®

Description

The **iFlash Metal®** System is Designed for installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction and round roof opening. where flashing is of metal.



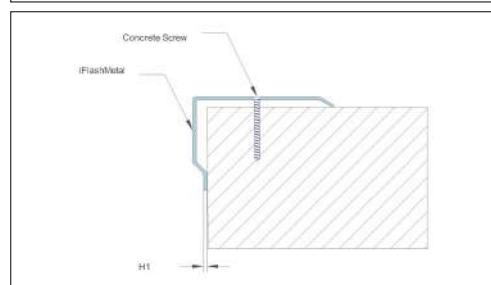
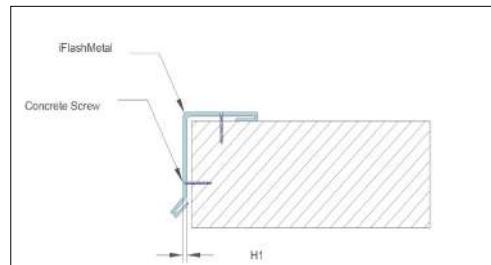
Key Features

Install Condition: Roof/Roof, Roof/Wall .
Flush mount exterior systems reduce sightline.
Adaptable to many finishes, including exterior paints, marble, stone, etc.
Mill finish aluminum.

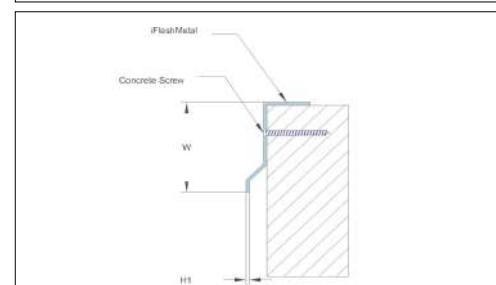
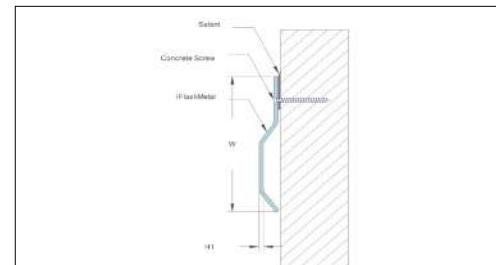
Materials

Aluminum: Alloy types of 6061-T6, 6063-T6, 6005A, or 5052-H32 sheet goods.

iFlash Metal -Roof to Roof



iFlash Metal - Roof to Wall



Application	System	W	H1	L
		Width	Thickness	Length
		mm	mm	m
Roof to Roof	iFlash Metal-60	60	1/1.5/2/3	3
	iFlash Metal-80	80	1/1.5/2/3	3
	iFlash Metal-100	100	1/1.5/2/3	3
	iFlash Metal-120	120	1/1.5/2/3	3
	iFlash Metal-150	150	1/1.5/2/3	3

Discover iChem's Specialized Profiles for Applications

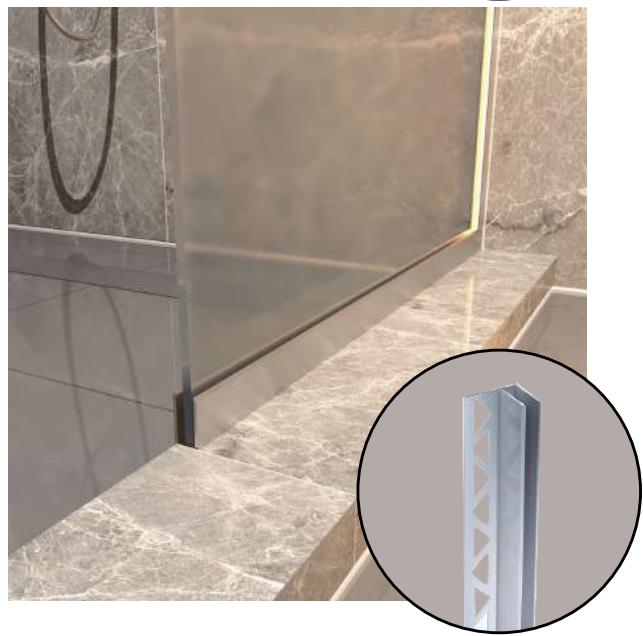
For Walls-Floor & Stairs

Aluminum Stair Angles by iChem

iChem aluminum & Stainless stair nosing delivers anti-slip safety with high resistance to corrosion and rust. Its sleek design fits marble and ceramic floors, offering quick, easy installation for new construction and renovation projects.

Available in a variety of sizes and finishes, they seamlessly complement any interior or exterior décor.

Ideal for both residential and commercial spaces, they ensure long-lasting durability and low maintenance.



OUR PROJECT

Rolling out on 415 acres of land, Bloomfields is the most charming and interconnected green town in Mostakbal City. Always on the rise, and in search for fresh bold ideas.

the development surrounds you with sweeping views over lush sun-kissed parks, open-air galleries, top-notch education, a burgeoning cultural scene, as well as world-class facilities, and a sustainable lifestyle inspired by the best integrated ecosystems in the world.

Bloomfields is Tatweer Misr's prime innovative project in Cairo that's set to become Egypt's hotbed for startups, entrepreneurs, as well as makers and doers who wish to execute flawlessly at home, in the office or at the gym.

BLOOM FIELDS



Location	Mostakbal City - New Cairo
Client	Tatweer Misr Offers
Consultant	CDEC Office
Contractor	Tatweer Misr Offers
Quantities	994 M
iChem products used	i330-i830 Floor systems +iFlex EPDM i110 Exterior systems +Sealant& iFlex BR i870 Wall systems



STAIR NOSE

i2020®



Description

The **i2020®** a System is a Stair Nosing Profile matching with many finishes.

Key Features

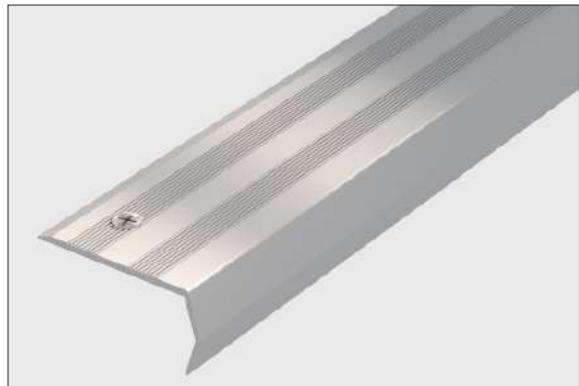
Adaptable to many finishes, including ceramic tile, marble, stone, terrazzo and resin.

Snap-fit design for easy on site assembly.

No dirt or water traps.

Aluminium available in several colors.

Anodized Aluminium.

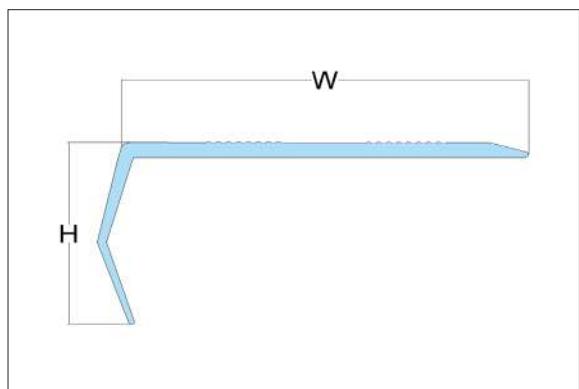


Uses

Provide Slip Resistance.

Protect Step Edge.

Provide Visual Contrast for step edge.



Maintenance

The **i2020®** does not require any special maintenance; it is suggested to clean it with normal household cleaning products.

Materials

Aluminium Alloy 6063, T6.

System	W	H	S
	Width	Height	thickness
	mm	mm	
i2020	75	30	3



i2025®



Description

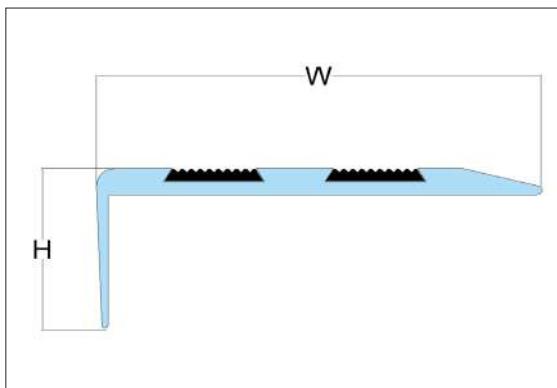
The i2025® a System is a Stair Nosing Profile matching with many finishes.

Key Features

Adaptable to many finishes, including ceramic tile, marble, stone, terrazzo and resin.
 Snap-fit design for easy on site assembly.
 No dirt or water traps.
 Aluminium available in several colors.
 Anodized Aluminium.

uses

Provide Slip Resistance.
 Protect Step Edge.
 Provide Visual Contrast for step edge.



Maintenance

The i2025® does not require any special maintenance; it is suggested to clean it with normal household cleaning products.

Materials

Aluminium Alloy 6063, T6.
 Rubber.

System	W	H	S
	Width	Height	thickness
	mm	mm	mm
i2025	75	30	5



OUR PROJECT

iChemEG has played a significant role in the Hotel Rixos Radamis Sharm El Sheikh. It is the most breathtaking aqua paradise with perfectly designed and colourful rooms where you can find a wide range of opportunities for a pleasant experience for the whole family. which includes an aquapark, sports cafés, game rooms, a kids club, exclusive culinary delights, and many exceptional facilities for kids.

Offering a hammam and a shared lounge, Rixos Radamis Sharm El Sheikh Hotel lies in the Nabq Bay district, a 10-minute ride from the Porto Sharm. This resort, located 3.6 km from the Nabq protectorate, boasts an outdoor swimming pool along with a steam room, a Jacuzzi, and locker rooms.

RIXOS RADAMIS SHARM EL SHEIKH



Location	Sharm El Sheikh
Client	Radamis Floating Hotels
Consultant	Radamis Floating Hotels
Contractor	Rowad Modern Engineering
Quantities	2090 M
iChem products used	i424-i870-iFlex CSW-i110 Floor systems i317 Wall systems iFlex EPDM – iFlex PVC



CONTROL JOINT

i340®



Description

The i340®a System is a Floor Aluminum Movement Joint used for the expansion gap between floors.

Key Features

Install Condition: Floor/Floor.

Joint width: 15mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility.

Adaptable to many finishes, including ceramic tile, marble, stone, terrazzo and resin.

Excellent weatherability and UV resistant.

Standard and Custom seal colors available.

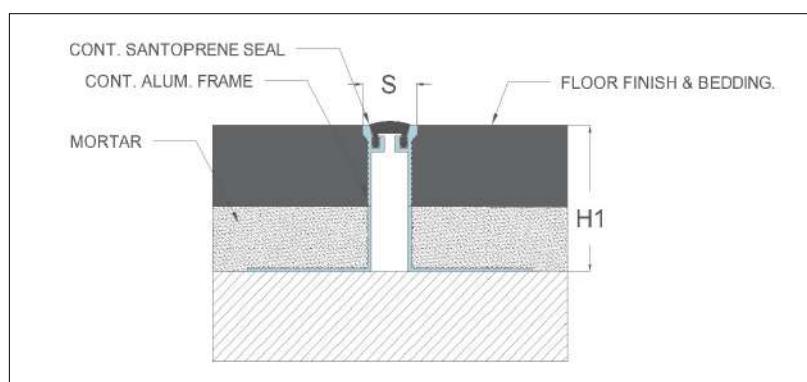
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Mill finish aluminum.

Available in several colors: Beige-Black-Grey-White.



Movement $\pm 25\%$

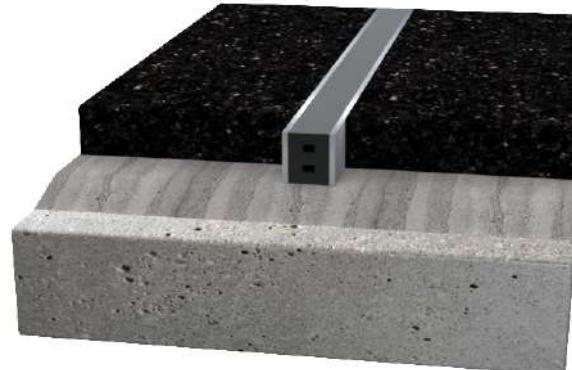
System	W	H1	H2	S	B	Movement +/-	
	Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical
	mm	mm	mm	mm	mm	mm	mm
i340-40	15	40	*	10	*	3	3
i340-15	15	15	*	10	*	3	3

i345®



Description

The i345® System is a Floor Aluminum Movement Joint used for the expansion gap between floors.



Key Features

Install Condition: *Floor/Floor.*

Joint width: 10-20mm.

Recessed modular frames for minimal sight line.

Dual durometer seal provides secure fit and optimal flexibility.

Adaptable to many finishes, including ceramic tile, marble, stone, terrazzo and resin.

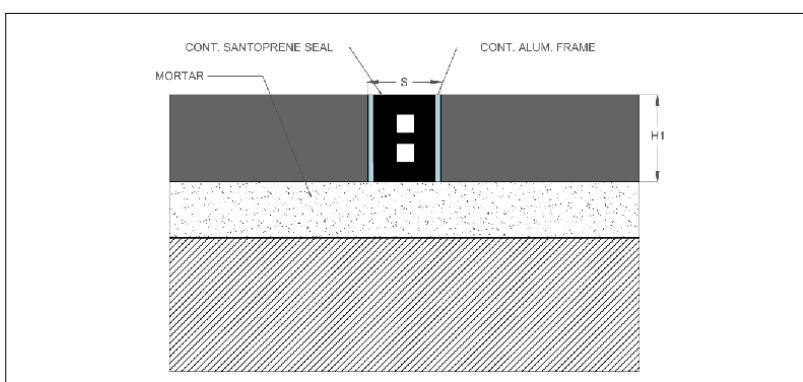
Snap-fit design for easy on site assembly.

Easy to clean flush seals.

No dirt or water traps.

Mill finish aluminum.

Available in several colors: Beige-Black-Grey-White.



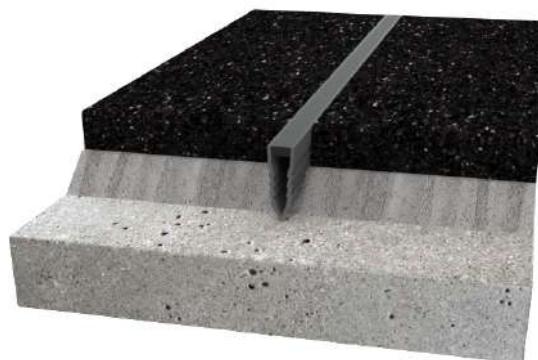
Movement $\pm 25\%$

System	W	H1	H2	S	B	Movement +/-	
	Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical
	mm	mm	mm	mm	mm	mm	mm
i345-10*20	10	20	*	10	*	2.5	2.5
i345-20*20	20	20	*	20	*	5	5
i345-20*40	20	40	*	20	*	5	5
i345-40*20	40	20	*	40	*	10	10

i348®

Description

The i348® a System is a Floor PVC Movement Joint used for the expansion gap between floors.



Key Features

Install Condition: Floor/Floor.

Joint width: 8mm.

Recessed modular frames for minimal sight line.

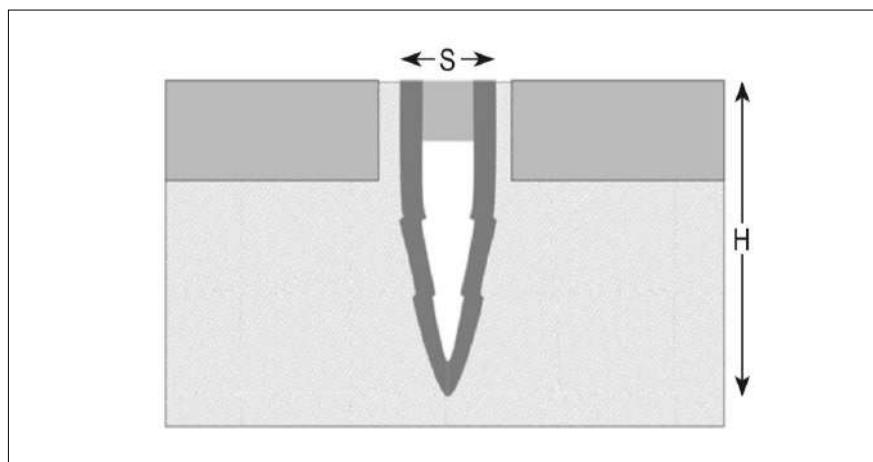
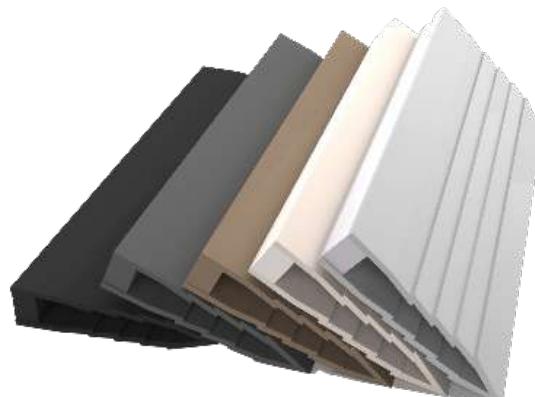
Dual durometer seal provides secure fit and optimal flexibility.

Adaptable to many finishes, including ceramic tile, marble, stone, terrazzo and resin.

Snap-fit design for easy on site assembly.

No dirt or water traps.

Available in several colors.



Movement \pm 25%

System	W	H1	H2	S	B	Movement +/-	
	Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical
	mm	mm	mm	mm	mm	mm	mm
i348	8	35	*	8	*	2	2

EXPANSION JOINTS & CONTROL JOINT

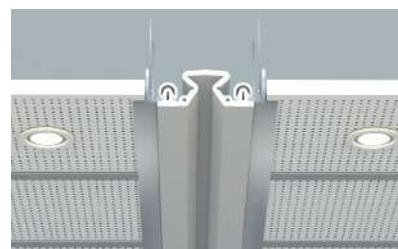
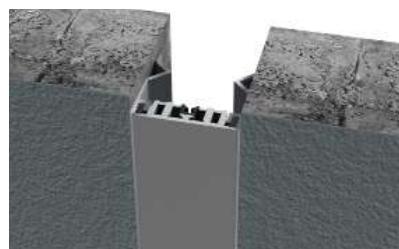
WHAT IS THE DIFFERENCE?



Expansion Joints



- Special joints or gaps in a structure, typically filled with flexible materials, that are designed to absorb the movement or expansion of the building or structure due to temperature changes, pressure variations, or other environmental factors. These joints help prevent cracks and damage to the structure by allowing for movement without compromising the integrity of the materials.
- They are commonly used in roads, bridges, buildings, and other large-scale structures to accommodate thermal expansion, contraction, vibration, or shifting of materials.



Control Joint (in Finishing)



- control joints are designed to enhance the aesthetic appearance or define spaces in finishing work, with less impact on the structural integrity. They are used to separate architectural elements or regulate expansion and contraction in decorative materials (such as walls, floors, and surface finishes).
- Location: Architectural joints are used mainly in interior finishes or between decorative surfaces like flooring, walls, or ceilings.



OUR PROJECT

Kernel New Cairo Mall features an elegant and modern-styled design, it competes with other malls in New Cairo. Affix Developments provides a ground floor and 4 upper floors, in addition to 2 floors for a garage which can accommodate the largest number of cars. Moreover, Mall Kernel Business Hub contains administrative, medical and commercial units to satisfy diverse tastes.

Kernel Mall New Capital extends over an area of 4,400 m² which is ideal for all activities, especially since the height of each floor is 3.5 m. Additionally, Affix provides varying spaces, depending on the type of activity; the spaces of medical units start from 36 m², while the space of administrative units in Kernel Mall starts from 32 m².

KERNEL BUSINESS HUB



Location

New Cairo.

Client

Affix Developments.

Consultant

Affix.

Contractor

Affix.

Quantities

100 M

iChem products used

i424-i330-i870 Floor systems
iFlex PVC.



SKIRTING PROFILES

i4010®

Description

The **i4010®** is an aluminum skirting board system designed for flooring. The product features a sleek, modern profile with a hidden mounting system for a clean finish. It provides durable wall protection while enhancing the overall aesthetic of interior spaces.



Material

Aluminum.

Thickness

1.5mm.

Length

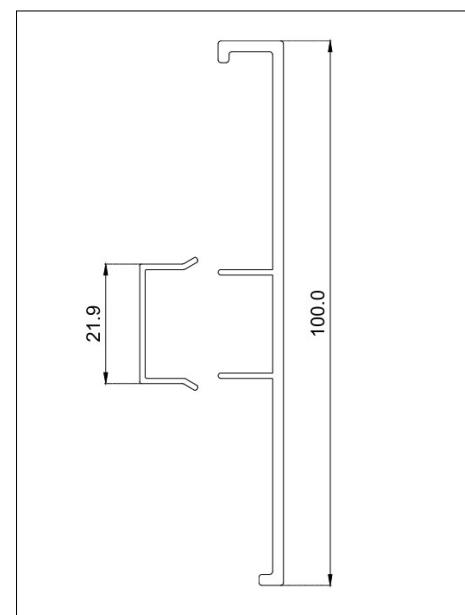
250cm.

Used

skirting board.

Color

Silver.



And a lot of electrostatic colors for Example:



i4011®

Description

The i4011® is an aluminum skirting board system with integrated concealed lighting, designed for flooring. The product features a sleek, modern profile with a hidden mounting system and LED channel for ambient lighting. It provides durable wall protection while enhancing the aesthetic of interior spaces.



Material

Aluminum.

Thickness

1.5mm.

Length

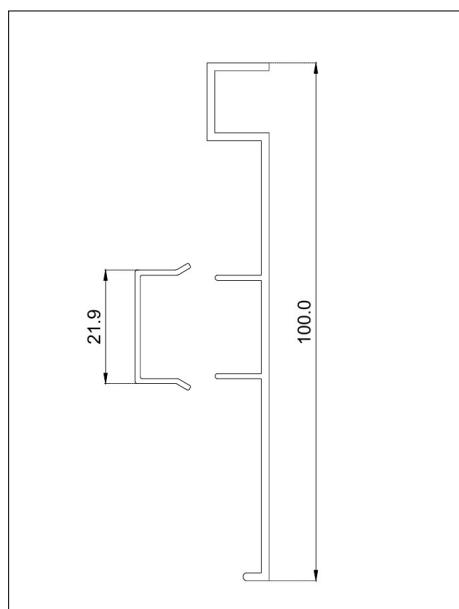
250cm.

Used

skirting board with light system.

Color

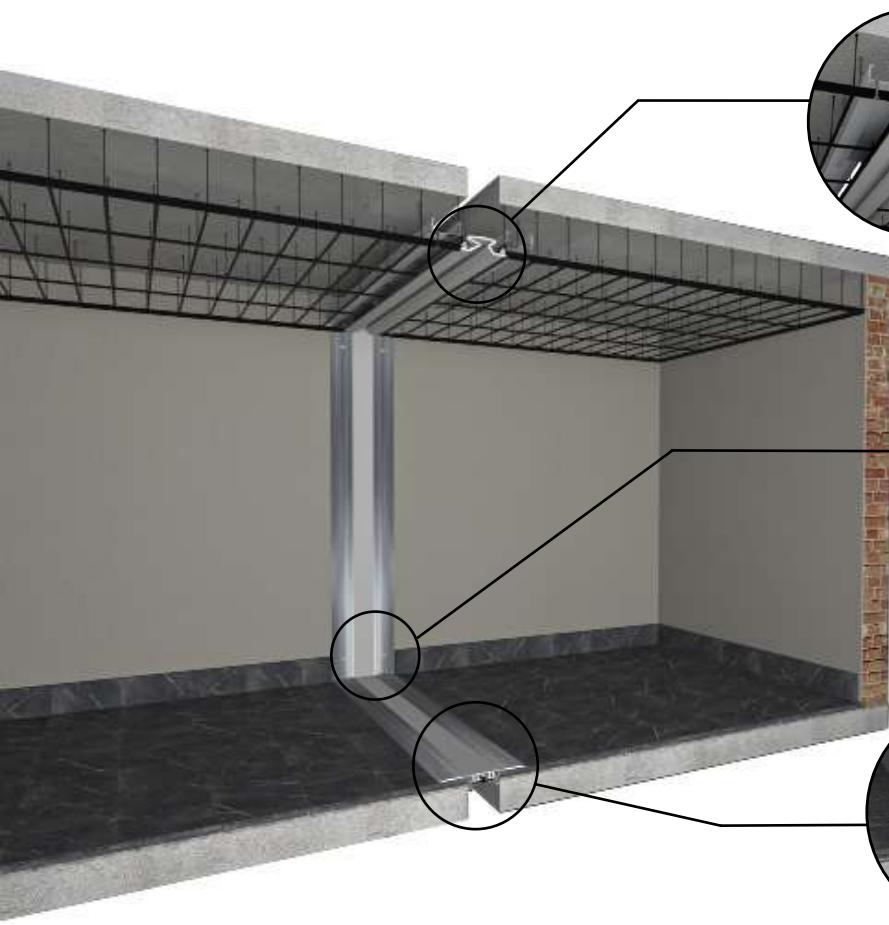
Silver.



With a lot of light system for Example:



Available Finishes

**Ceiling Expansion Joint Covers**

iChem Aluminum Expansion Joint Covers protect ceilings from corrosion and moisture while maintaining structural performance. Their modern design combines aesthetic appeal with engineering flexibility, offering easy installation and color varieties.

Wall & Floor Connection

essential gaps between floor and wall surfaces, designed to absorb building movements from thermal changes, seismic activity, and settlement, preventing cracks and damage to maintain structural integrity and performance.

Floor Expansion Joint Covers

iChem Expansion Joint Covers protect floors from cracking caused by thermal expansion and contraction, ensuring long-term surface stability.

Stocked Finishes

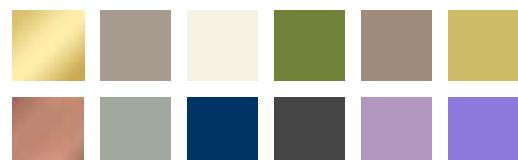
Clear Anodized



Mill



And a lot of electrostatic colors: for Example



Standard Santoprene Seals



White Beige Gray Black



Other Mega Projects

The Heritage City in New Alamein

Location	In New Alamein
Client	Urban Communities Authority
Consultant	ECG
Contractor	(HAC) - (CCC)
Quantities	2100 M
iChem products used	i330-50 / i424-50 Floor systems i870-50 Wall systems iFLEX CSW-50



The Beach Towers in New Alamein

Location	In New Alamein
Client	Urban Communities Authority
Consultant	ECG
Contractor	(HAC) - (CCC)
Quantities	6700 M
iChem products used	i314-50 Floor systems i315-50 Wall systems Fire Barrier



Arab Academy For Science, Technology & Maritime Transport

Location	In New Alamein
Client	Urban Communities Authority
Consultant	ECG
Contractor	(HAC) - (CCC)
Quantities	1000 M
iChem products used	i314-50 / i330-50 Floor systems i315-50 / i317-50 Wall systems



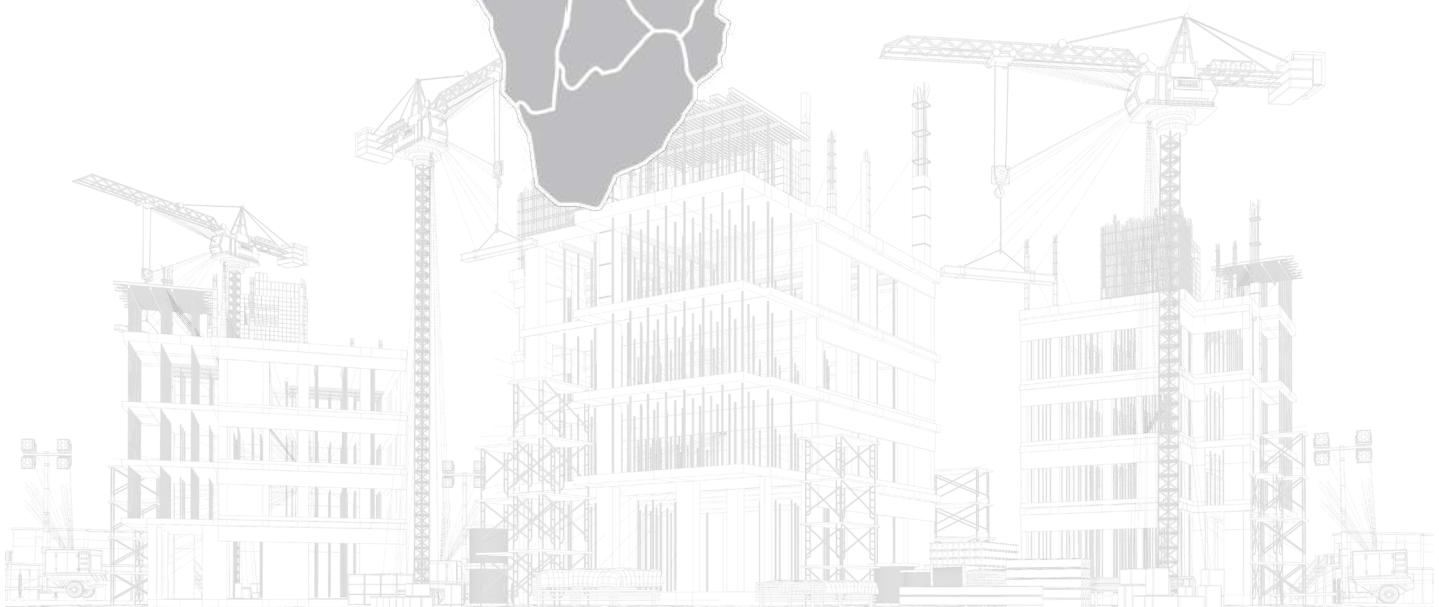
Solas Mall, New Administrative Capital

Location	In New Administrative Capital
Client	Solas
Consultant	DSC
Contractor	Capitalia Capital Company
Quantities	900 M
iChem products used	i330-25/i830-25 Floor systems i870-100 Wall systems +Sealant +iFlex PVC



Our Company's Growth

- Our Location
- Export countries





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