

Floor Expansion Joint Covers

i510[®]

ichem[®]
building solutions

Product Guide



Interior



Exterior



Vapor Barrier
Option



Fire Rated
Option



seismic



Heavy Duty

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.

Materials

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

Stainless steel: Alloy types of 304 or 316.



Application Instructions

Installation: Joint systems: Install in accordance with manufacturer's instructions.

Align work plumb, level and flush with adjacent surfaces. Mechanically anchor to substrate. Allowances should be made where actual structural gap at time of installation varies from nominal design gap. No shimming of frames is permitted. Coordinate with work of other Sections.

If concrete blockouts (rebates) are required, ensure continuous support equal to surrounding substrate structural values.

Fire Rated Assemblies: Where required, install to manufacturer's instructions.

Moisture Barrier: Where required, install to manufacturer's instructions.

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Protect: the completed Expansion Control system work from damage during construction. Damage protection includes surface abrasion and overloading of coverplate by materials handling equipment and construction waste/debris. Protection from environmental factors required throughout installation process until Project Closeout. Protection includes but is not limited to rain events, moisture protection, exposure to temperature fluctuations or direct sunlight for temperature sensitive product offerings.

Store

Store components in original containers in a clean, dry location. Ensure temperature or moisture sensitive components are stored in a tempered location.

Contractor to provide temporary protective covers on all installed finished surfaces. Protection is required to guard against both surface abrasions as well as overloading of horizontal deck components by construction traffic.

Movement $\pm$ 50%

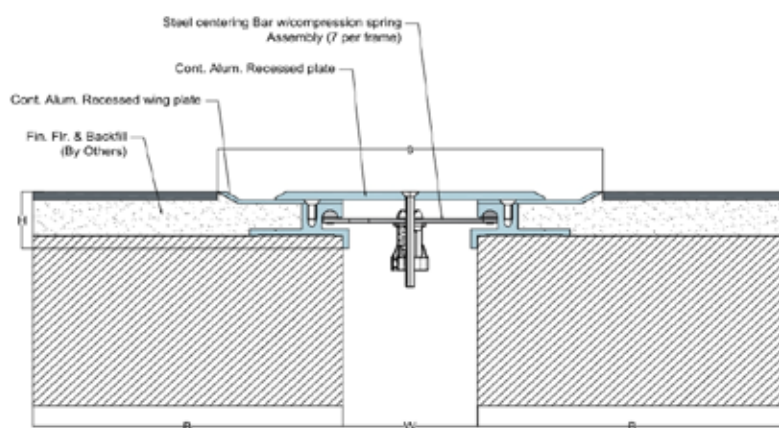
Application	System	W	H1	H2	S	B	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Blockout	Horizontal	Vertical	
		mm	mm	mm	mm	mm	mm	mm	
Floor to Floor	i510-50	50	40	*	300	120	25	50	Truck
	i510-100	100	40	*	300	120	50	50	Truck
	i510-150	150	40	*	375	130	75	50	Truck
	i510-200	200	40	*	450	145	100	50	Truck
	i510-250	250	40	*	500	145	125	50	Truck
	i510-300	300	40	*	630	190	150	50	Truck
	i510-350	350	40	*	705	190	175	50	Truck
Floor to Wall	i510-C-50	50	40	*	32	175	15	50	Truck
	i510-C-100	100	40	*	32	150	25	50	Truck
	i510-C-150	150	40	*	32	125	35	50	Truck
	i510-C-200	200	40	*	32	140	50	50	Truck
	i510-C-250	250	40	*	32	175	65	50	Truck
	i510-C-300	300	40	*	32	200	80	50	Truck
	i510-C-350	350	40	*	32	200	95	50	Truck

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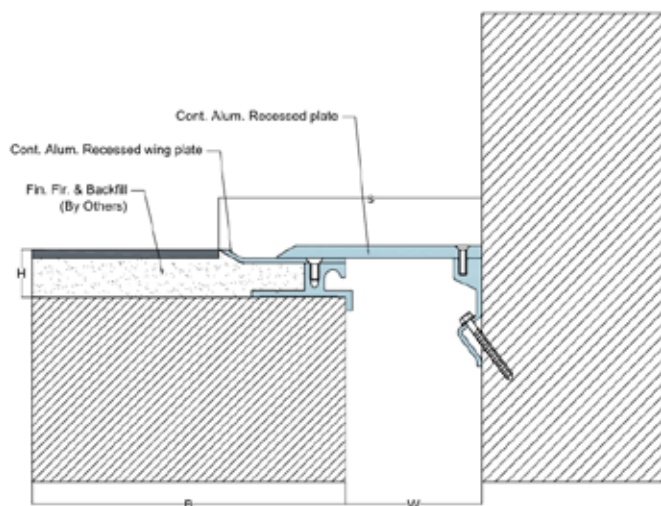
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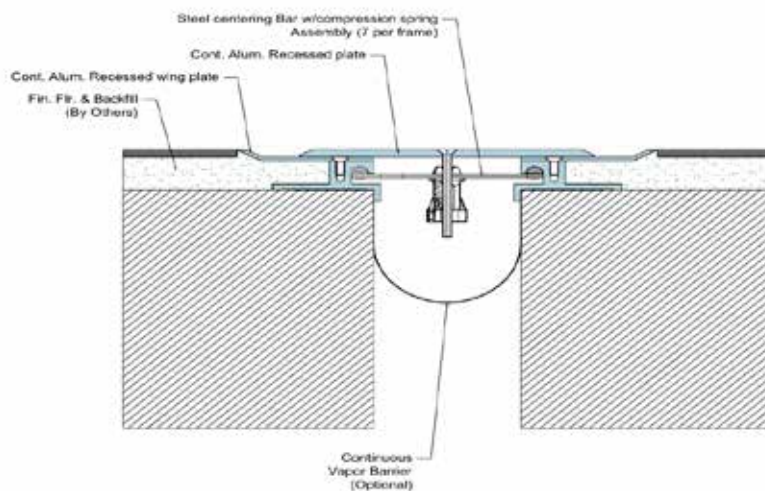
Series i510 - Floor to Floor



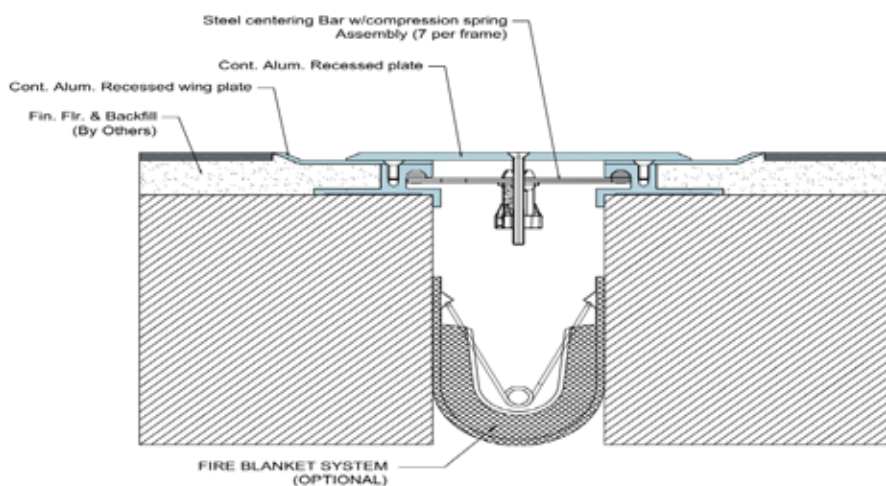
Series i510 C - Floor to Wall



Series i510- iFlex PVC Options



Series i510- FireStop S30 Options



Technical Data Sheet - January 2025, Version 1.2.2

