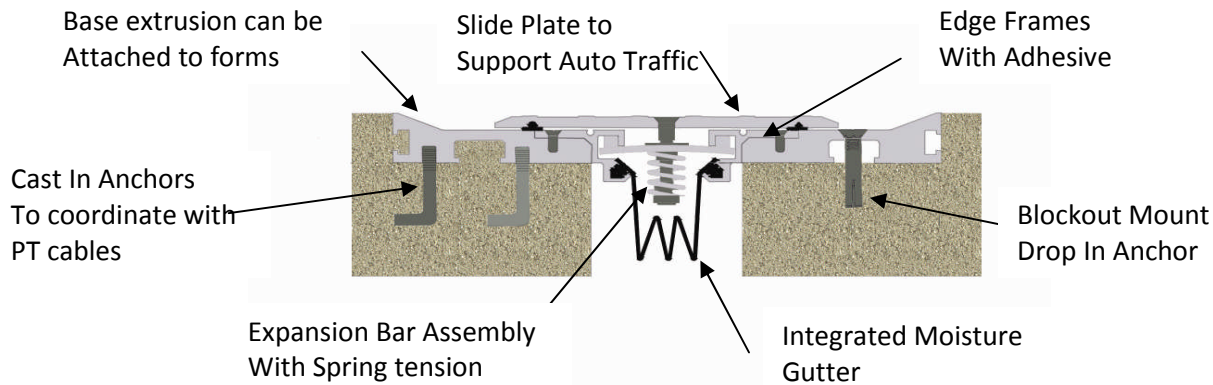


Architectural Art Mfg.
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TECH DATA SHEET

WCI Series

Cast In Seismic Parking Joint Cover System



DESCRIPTION:

The WCI Series is designed for joint openings 4" (100mm) and wider. The WCI can accommodate parking deck loading and multidirectional seismic movement. The cast in aluminum base frames are designed with sloped edges to allow tires to glide over the surface of the system. Anchors can be strategically placed to coordinate with re-bar or PT cables. The heavy duty, load bearing slide plate features a non-slip surface finish and integrated impact sound dampeners. The heavy duty centering spring mechanism allows the slide plate to displace and return to its natural position after a seismic occurrence and Auto Impact. The integrated impact and sound dampener also acts as a water-stop. The integrated-fit Santoprene elastomeric gutter is attached to edge extrusions for maintenance ability to prolong and enhance the system's waterproofing capability.

TYPICAL APPLICATIONS:

The WCI is designed to be used in car parking structures requiring seismic movement capabilities in joints 4" and larger with Cast In place concrete.

FEATURES:

- Heavy duty centering spring mechanism designed to allow multi-directional seismic movement.
- AASHTO HS-20 load carrying capability.
- Heavy duty base frames for cast in or blockout construction.
- Waterproofing – Integrated-fit Santoprene elastomeric gutter and integrated water-stop impact sound dampener.
- Cast In design – Ideal for Post Tension deck construction and poured in place concrete applications.

PACKAGING:

- Expansion joint aluminum components are shipped in standard 10' (3.05 meter) lengths.
- All materials and components are packaged in manufacturer's standard packaging.

PHYSICAL PROPERTIES:

- **Aluminum Extrusions:** Conform to ASTM B221, for alloys 6061-T6, Exposed Finish: Mill.
- **Integrated-fit Gutter:** Conform to ASTM D412 Santoprene 591-65A



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WCI SERIES

Tech Data Sheet - Continued

SELECTION GUIDE:

WCI SERIES - SELECTION GUIDE										
DESIGNATION	JOINT OPENING						TOTAL MOVEMENT		SLIDE PLATE WIDTH	
	MINIMUM		NOMINAL		MAXIMUM					
W40-CI-AL	2.5	64	4.0	102	6.0	152	4.0	102	9.0	229
W60-CI-AL	3.0	76	6.0	152	9.0	229	6.0	152	12.0	305
W80-CI-AL	4.0	102	8.0	203	12.0	305	8.0	203	12.0	305
W100-CI-AL	5.0	127	10.0	254	15.0	381	10.0	254	17.0	432
W120-CI-AL	6.0	152	12.0	305	17.0	431	12.0	305	17.0	432

Bold numbers are in inches. Others are millimeters

INSTALLATION:

- 1) Attach edge frames to concrete forms being careful to keep the joint size to specifications.
- 2) Install Integrated-fit Santoprene elastomeric gutter into aluminum edge frames.
- 3) Apply sealant to base frame at the connecting point of edge extrusions.
- 4) Install seismic expansion bars with spring mechanisms at specified spacing into edge extrusions.
- 5) Attach edge frames with gutters and expansion bars to base frames using fasteners provided.
- 6) Install slide plate with impact dampeners by aligning countersunk holes over expansion bar posts.
- 7) Refer to the WCI installation guidelines for detailed step-by-step instructions.

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If the product has failed under the terms of the warranty, it will be replaced or repaired free of charge. Architectural Art Mfg., a division of Pittcon Architectural Metals, LLC, will not be responsible for installation costs involved in such replacement or repair, consequential or other damages of any nature. This is in lieu of all other warranties expressed or implied and is the sole warranty extended.

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