



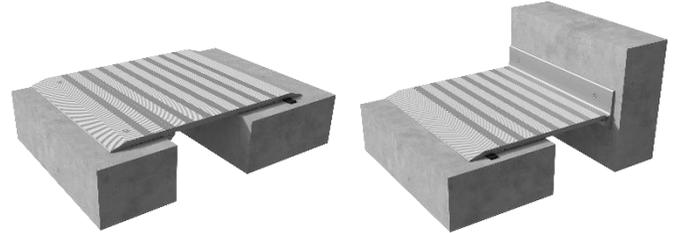
# TECHNICAL DATA SHEET

# WILLSEAL PROTECTOR PLATE™ – FLEX

Cover Plate System for Expansion Joints in High Volume Traffic Areas

## PRODUCT DESCRIPTION

Willseal Protector Plate™ – Flex is designed for covering expansion joint openings in high volume pedestrian and vehicular traffic areas. Willseal Protector Plate – Flex can accommodate vertical offsets of up to 1/2 inch in opposing concrete decks and multi-directional seismic movement. The heavy-duty aluminum safety cover incorporates two mechanical hinges that flex independently in response to changes in vertical displacement. The cover is anchored to the high side thus providing a safe and smooth transition between uneven concrete surfaces.



## BASIC USES

Willseal Protector Plate – Flex is a traffic bearing expansion joint safety cover for concrete decks that deflect due to vehicular traffic loads and can be used to compensate for settlement, that has or may occur, between concrete surfaces, particularly where the concrete slab meets the wall. Willseal Protector Plate – Flex is recommended for use in the following applications and other similar structures:

- Parking garages or areas with low-speed vehicular traffic
- Plaza decks, pedestrian bridges, concourses, and sidewalk areas
- Stadiums

## FEATURES & BENEFITS

Willseal Protector Plate – Flex is ideal for covering expansion joint openings with recessed joint systems or fillers, particularly in high traffic pedestrian areas. The heavy-duty convex aluminum cover of the Flex plate allows accommodation for greater vertical offsets in concrete decks.

- Slab-to-slab applications are rated for low-speed vehicular traffic
- Provides a smooth transition between uneven surfaces

Willseal Protector Plate – Flex is designed to comply with all ADA guidelines. The aluminum frame incorporates integral, raised slip-resistant safety strips to maximize traction and ensure pedestrian safety.

## AVAILABILITY

Willseal Protector Plate – Flex is available as part of a system including a Willseal foam expansion joint with varying degrees of movement, from your authorized Tremco or Willseal Sales Representative, Tremco or Willseal distributor or warehouse. The tables below reference the typical physical properties of the cover plate. For questions about joint behavior or the proper expansion joint material to use, please contact Willseal Technical Service.

For Slab-to-Slab Applications:

Model Number	Suitable for Joint Size			Plate Width	Plate Thickness	Vertical Movement Capability*	
	Minimum	Nominal	Maximum			Movement Down (Anchored Side)	Movement Up (Non-Anchored Side)
FLX-400	1.0 in (25 mm)	4.0 in (102 mm)	6.0 in (152 mm)	13.0 in (330 mm)	0.375 in (10 mm)	-1.2 in (32 mm)	0.5 in (12.5 mm)
FLX-600	1.0 in (25 mm)	6.0 in (152 mm)	9.0 in (229 mm)	16.0 in (406 mm)	0.375 in (10 mm)	-1.8 in (46 mm)	0.5 in (12.5 mm)
FLX-800	1.0 in (25 mm)	8.0 in (203 mm)	12.0 in (305 mm)	19.0 in (483 mm)	0.375 in (10 mm)	-2.4 in (62 mm)	0.5 in (12.5 mm)

\*At the mean gap size. The plate anchored side must be installed on the higher side of the joint. To allow vertical movement up a chamfer 1.2 x 0.4 inch (30 x 10 mm) has to be accommodated on the non-anchored side.

For Slab-to-Wall Applications:

Model Number	Suitable for Joint Size			Plate Width	Plate Thickness	Vertical Movement Capability*	
	Minimum	Nominal	Maximum			Movement Down (Anchored Side)	Movement Up (Non-Anchored Side)
FLX-W-400	1.0 in (25 mm)	4.0 in (102 mm)	6.0 in (152 mm)	9.25 in (235 mm)	0.375 in (10 mm)	-1.2 in (32 mm)	0.5 in (12.5 mm)
FLX-W-600	1.0 in (25 mm)	6.0 in (152 mm)	9.0 in (229 mm)	12.25 in (311 mm)	0.375 in (10 mm)	-1.8 in (46 mm)	0.5 in (12.5 mm)
FLX-W-800	1.0 in (25 mm)	8.0 in (203 mm)	12.0 in (305 mm)	15.25 in (387 mm)	0.375 in (10 mm)	-2.4 in (62 mm)	0.5 in (12.5 mm)

\*At the mean gap size. The plate anchored side must be installed on the higher side of the joint. The plate should be anchored on the wall side of the joint. To allow vertical movement up a chamfer 1.2 x 0.4 inch (30 x 10 mm) has to be accommodated on the non-anchored side.

For more information contact Customer Service by phone at 800-274-2813 or email [custserv@willseal.com](mailto:custserv@willseal.com).

## COMPOSITION

Willseal Protector Plate – Flex is aluminum.

## LIMITATIONS

Concrete must be properly formed, finished, and have sound substrate. Joints located in turning lanes or exposed to heavy wheeled traffic must be engineered for greater impact loads. FLX-W models are not rated for vehicular traffic. The anchors of the Flex plate should be installed on the higher side of any joint with shear or vertical movement. Contact Tremco or Willseal Technical Services for additional information.

All components of the system must be stored in a dry location. Please refer to the Willseal Protector Plate – Flex Application Instructions published on Tremco’s website for additional information on anchoring into substrates other than fully-cured concrete.

## WARRANTY

A repair or replacement warranty is available on all Willseal products. Visit <https://www.tremcosealants.com/warranties/> for details.

Please refer to our website at [www.tremcosealants.com](http://www.tremcosealants.com) for the most up-to-date Product Data Sheets.

NOTE: All Willseal Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.



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