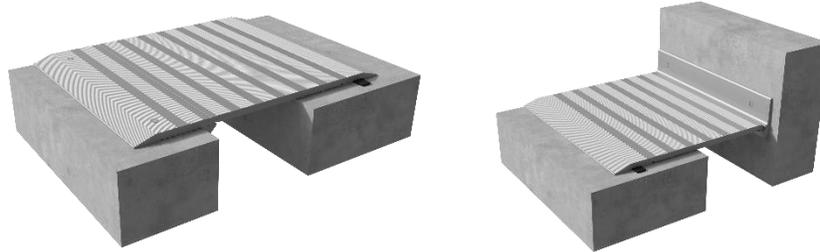




# APPLICATION INSTRUCTIONS

## WILLSEAL PROTECTOR PLATE™ – FLEX

Cover Plate System for Expansion Joints in  
High Volume Traffic Areas



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### 1. PURPOSE

- 1.1 The purpose of this document is to establish typical guidelines for the installation of Willseal Protector Plate™ – Flex. The techniques involved may require modifications to adjust to jobsite conditions. Consult your local Tremco Sales Representative or Tremco Technical Services for specific design requirements.

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### 2. SCOPE

- 2.1 This document will provide typical instructions for installation of Willseal Protector Plate – Flex to qualify for a manufacturer's warranty. If a foam expansion joint system is to be used with the Willseal Protector Plate – Flex, please contact your local Tremco Sales Representative or Tremco Technical Services for specific design requirements.

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### 3. RECOMMENDED TOOLS

- 3.1 Tape Measure
- 3.2 Caulk Line
- 3.3 Marker
- 3.4 Chop Saw with metal cutting disc
- 3.5 Drill (hammer drill recommended for concrete substrates)
- 3.6 Drill bits for masonry and metal
- 3.7 Phillips Head screwdriver or driver bit



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### 4. AVAILABILITY

- 4.1 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.
- 4.2 For questions about joint behavior or the proper expansion joint material to use, please contact Willseal Technical Service.

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### 5. SUBSTRATE PREPARATION

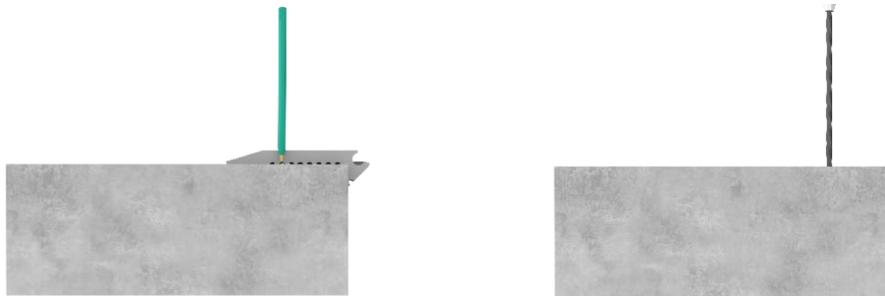
- 5.1 Verify that the joint is clean, sound, and will provide an appropriate surface for installation of Willseal Protector Plate – Flex.
- 5.2 Verify that the surface is flat and free from elevated or concave areas.
- 5.3 Verify that the joint is uniform and repair any spalls prior to installation.
- 5.4 Check the material for appropriate length and width.
- 5.5 If installing a foam expansion joint in conjunction with the Willseal Protector Plate – Flex, the following steps must be accomplished:
  - a. Verify that the joint is clean, sound, and will provide an appropriate surface for the installation of the foam expansion joint
  - b. Use compressed air or a vacuum to clean any loose debris from the joint.
  - c. Apply water or alcohol to a clean cloth and wipe the joint walls to a depth of the foam material, plus 1 inch.
  - d. Verify that the joint walls are uniform and repair any defects prior to installation.
  - e. Open cell materials should be pre-compressed to a size smaller than the intended joint opening.
  - f. Joint depth must allow for the installed material to be recessed 1/4 inch from the substrate surface. Material may require additional recess to accommodate knuckle of Willseal Protector Plate – Flex system.

## 6. APPLICATION PROCEDURE

- 6.1 If a foam expansion joint system will be used with the Willseal Protector Plate – Flex, it should be installed prior to installation of the Willseal Protector Plate – Flex. Foam expansion joint may require additional recess to accommodate the Willseal Protector Plate – Flex knuckle.
- 6.2 When abutting a wall, create a separation joint that is a minimum of 0.4 to 0.8 inch (10 to 20 mm) wide between the plate and the vertical structure to allow for thermal expansion of the aluminum.
- 6.3 For outside joints exposed to sunlight and high temperatures, leave a 0.12 inch (3 mm) gap between the plates to allow for thermal expansion of the aluminium. For extreme heat, increase this gap. Contact your local Tremco Sales Representative or Tremco Technical Services if you need additional information.

### 6.4 Floor to Floor Installation

- 6.4.1 Assemble the plate and place it in its installed position spanning the joint. The anchoring side of the Willseal Protector Plate – Flex system must be installed on the high side of the joint. For questions on anchor placement, contact your local Tremco Sales Representative or Tremco Technical Services.
- 6.4.2 Using the predrilled holes as a template, mark the locations for the anchors on the concrete.
- 6.4.3 Remove the plate and drill the anchor holes at the marked locations.
- 6.4.4 Using compressed air or a vacuum, remove all dust and debris from the anchor holes.
- 6.4.5 Confirm that the three different parts of the plate are assembled by sliding each piece into each of the corresponding ball joints.
- 6.4.6 Place plate in its installed position and, using the fasteners provided with the installation kit, attach the Willseal Protector Plate – Flex to the concrete. Refer to included fastener installation instructions for epoxy and fastener instructions. It is recommended to leave the fasteners loose, at this time, to aid in alignment.
- 6.4.7 When two or more lengths of the Willseal Protector Plate – Flex are required to accommodate the joint length, it is recommended to stagger the plate sides of the system with the anchoring sides. This can be accomplished by trimming the plate side 6 inch shorter than the anchoring side. When the second plate side is installed, it will continue the support from the initial anchoring side, maintaining support across the two plate sections.
- 6.4.8 Ensure it is plumb, level, and properly aligned.
- 6.4.9 Tighten fasteners after alignment has been complete.



### 6.5 Floor to Wall Installation

- 6.5.1 Assemble the plate and place it in its installed position spanning the joint.
- 6.5.2 Using the predrilled holes as a template, mark the locations for the anchors on the wall.
- 6.5.3 Remove the plate and drill the anchor holes at the marked locations.
- 6.5.4 Using compressed air or a vacuum, remove all dust and debris from the anchor holes.
- 6.5.5 Confirm that the three different parts of the plate are assembled by sliding each piece into each of the corresponding ball joints.
- 6.5.6 Place plate in its installed position and, using the fasteners provided with the installation kit, attach the Willseal Protector Plate – Flex to the wall. Refer to included fastener installation instructions for epoxy and fastener instructions. It is recommended to leave the fasteners loose, at this time, to aid in alignment.

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- 6.5.7 When two or more sections of the Willseal Protector Plate – Flex are required to accommodate the joint length, it is recommended to stagger the plate sides of the plate with the anchoring sides. This can be accomplished by trimming the plate side 6 inch shorter than the anchoring section. When the second plate side is installed, it will continue the support from the initial anchoring side, maintaining support across the two plate sections.
- 6.5.8 Ensure that it is plumb, level, and properly aligned.
- 6.5.9 Tighten fasteners after alignment has been complete.

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