



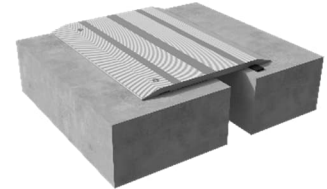
APPLICATION INSTRUCTIONS

WILLSEAL PROTECTOR PLATE™ – PEDESTRIAN

Cover Plate System for Expansion Joints
Exposed to Heavy Pedestrian Traffic

1. PURPOSE

The purpose of this document is to establish typical guidelines for the installation of Willseal Protector Plate™ – Pedestrian. 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.



2. SCOPE

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

3. RECOMMENDED TOOLS

- 3.1 Tape Measure
- 3.2 Chalk Line
- 3.3 Marker
- 3.4 Chop Saw with metal cutting blade
- 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



4. AVAILABILITY

- 4.1 Willseal Protector Plate – Pedestrian 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.

5. SUBSTRATE PREPARATION

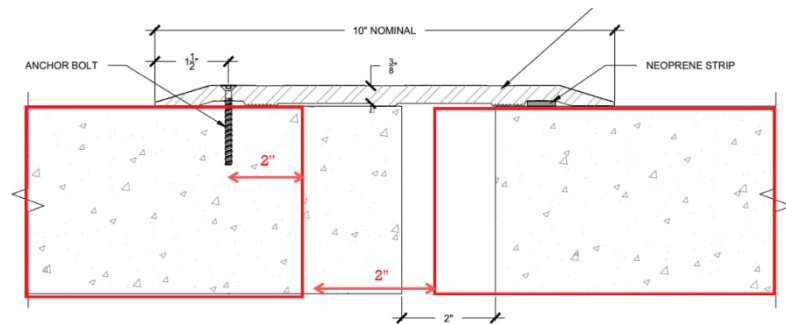
- 6.1 Verify that the joint is clean, sound, and will provide an appropriate surface for installation of the Willseal Protector Plate – Pedestrian.
- 6.2 Verify that the surface is flat and free from elevated or concave areas.
- 6.3 Verify that the joint is uniform and repair any spalls prior to installation.
- 6.4 Check the material for appropriate length and width.
- 6.5 If installing a foam expansion joint in conjunction with the Willseal Protector Plate – Pedestrian, the following steps must be accomplished:
 - a. Verify the joint is clean, sound, and will provide an appropriate surface for 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" from the substrate surface.

6. APPLICATION PROCEDURE

- 6.1 If a foam expansion joint system will be used with the Willseal Protector Plate – Pedestrian, it should be installed prior to installation of the Willseal Protector Plate – Pedestrian.

6.2 Floor-to-Floor Installation

- 6.2.1 Assemble the plate and place it in its installed position spanning the joint.
- 6.2.2 **It is critical that a $\frac{1}{4}$ " (6.35mm) thermal expansion gap be left between the terminating end of the plate and the end of the horizontal joint run (commonly where the joint throat opening ends or upturns at a wall, parapet, column, or other vertical plane). A $\frac{1}{4}$ " (6.35mm) thermal expansion perimeter gap should also be observed where a plate must jog or follow around a column.**
- 6.2.3 For outdoor applications, **it is critical that a $\sim\frac{3}{64}$ " (1mm) thermal expansion gap for every $\sim 3.25'$ (1 lm) of overall coverplate length protecting an expansion joint is maintained between adjoining/subsequent plates on that run.** Example—a horizontal expansion joint that is 20' (6 lm) long will require two 10' (3 lm) cover plates to protect the entire run; the thermal expansion gap between the two plates should therefore be $\sim\frac{3}{32}$ " (2mm).
- 6.2.4 Using the pre-drilled holes as a template, mark the locations for the anchors on the concrete (Ref. 1, this page). **It is critical that a minimum edge distance of 2" (50mm) is maintained between the anchor-side of the joint throat sidewall and the plate anchor bolt.**
- 6.2.5 Remove the plate and drill the anchor holes at the marked locations (Ref. 2, next page).
- 6.2.6 Using compressed air or a vacuum, remove all dust and debris from the anchor holes.
- 6.2.7 Place plate in its installed position and, using the fasteners provided with the installation kit, attach the Willseal Protector Plate – Pedestrian to the concrete deck. 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.
- 6.2.8 Ensure it is plumb, level, and properly aligned.
- 6.2.9 Tighten fasteners after alignment has been complete.



Ref. 1 - Conceptual image to show hole marking; maintain minimum edge distance of 2" (50mm). Actual product dimensions may vary from that shown above.

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Ref. 2 - Conceptual image to show drilling pre-marked anchor holes into substrate. Substrate conditions may vary from those shown above.

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