DHCP-Series (Dual Hinge Cover Plate)

INSTALLATION INSTRUCTIONS

Cover Plates

The following installation procedure is very important and must be fully understood prior to beginning any work. To ensure proper installation and performance of the dual hinge cover plate system the following must be completed by the installing contractor. Failure to do so will affect product warranty.

Material Preparation

1. Carefully read and understand installation procedure. Contact Technical Service Department (716-542-3991) for product assistance.

2. Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service (716-542-3991) with order number for prompt assistance.

3. Inspect substrate or adjacent construction for acceptance before beginning work. Report unacceptable construction to the project manager for scheduled repair work.

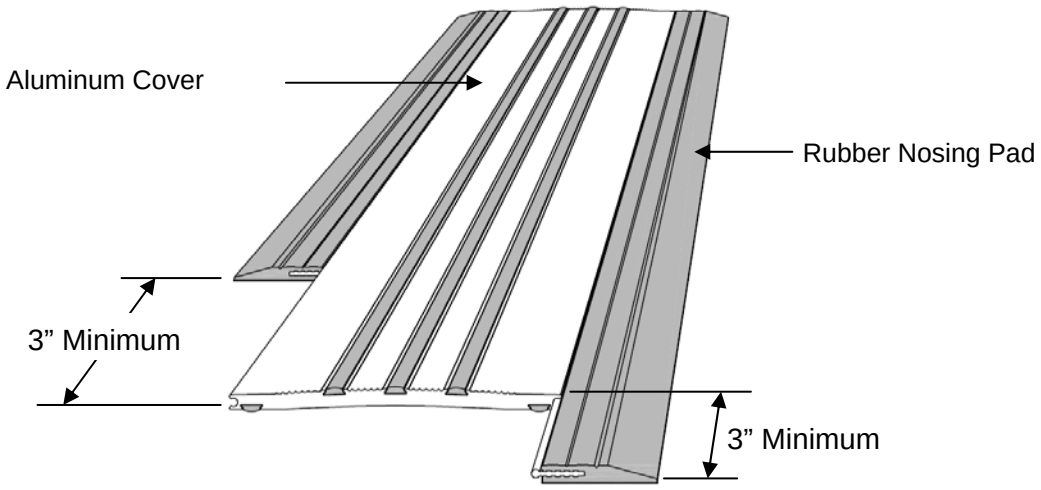
Material Installation

1. Locate the rubber nosing pads, aluminum DHCP cover plates and the 3/8" (10mm) drop-in expansion anchors. Determine which side of the joint opening is to have the nosing pad anchored.

2. Position the DHCP over the expansion joint opening. If a permanent vertical offset exists then be sure to anchor the DHCP on the **high side** of the expansion joint opening. If no permanent offset is present, then position the anchors on the side that will be first exposed to vehicular tire impact.

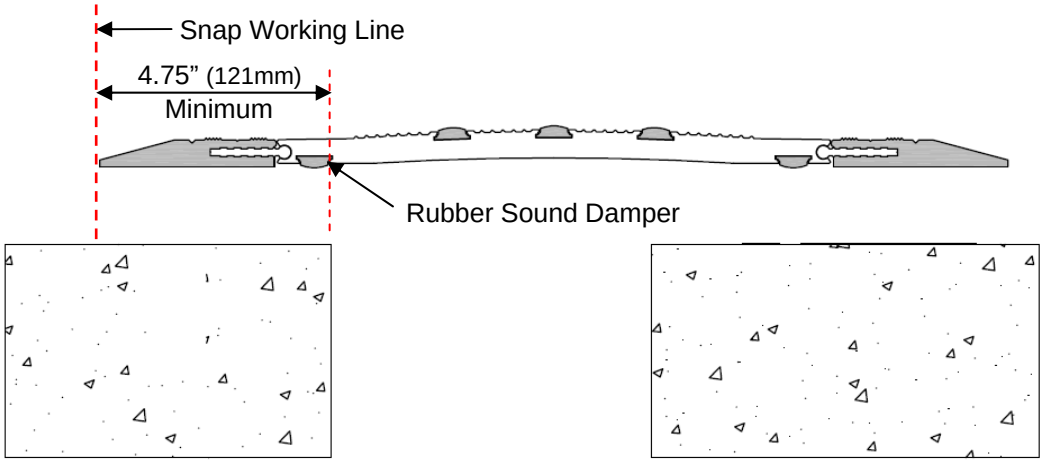
3. Pre-assemble by sliding the nosing pad into the aluminum cover plate. Extend the nosing pad into the next aluminum cover plate by a minimum of 3" (76mm) and nor more than 6" (152mm). The inter-locking of the nosing pad and the aluminum cover plate will help keep the system straight and parallel.

Material Installation



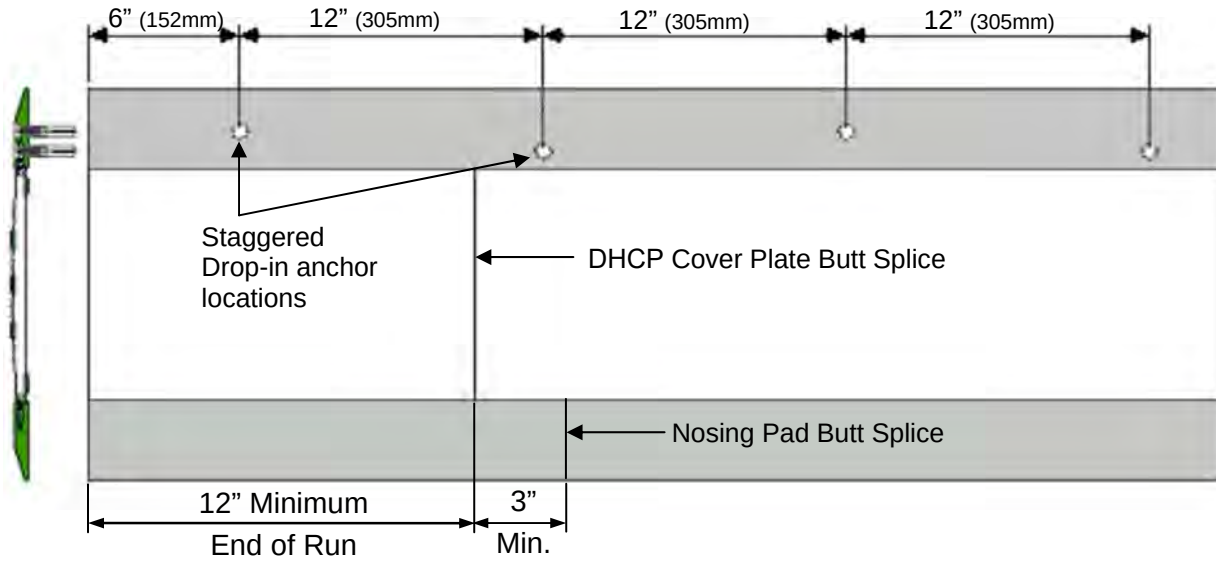
HELPFUL TIP:
Pre-assemble the aluminum cover and the rubber nosing pads prior to locating the anchor holes.

4. Snap a working line to insure that a straight sight line is maintained. Insure that the underside rubber sound damper is resting on solid concrete.

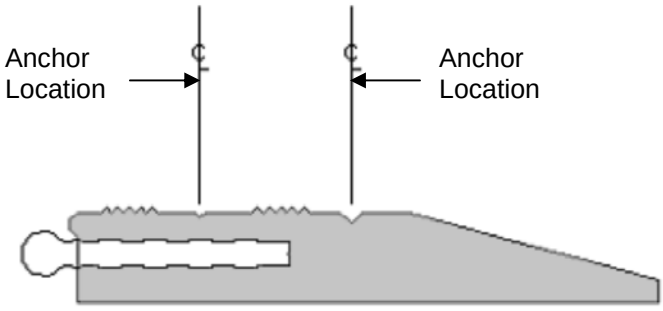


Material Installation

5. The drop-in anchors must be staggered at 12" (305mm). Use the pre-assembled DHCP as the template to locate the holes to be drilled. Mark the anchor hole locations on the rubber nosing pad. Note that the holes must be staggered/offset along the length of the nosing pads.



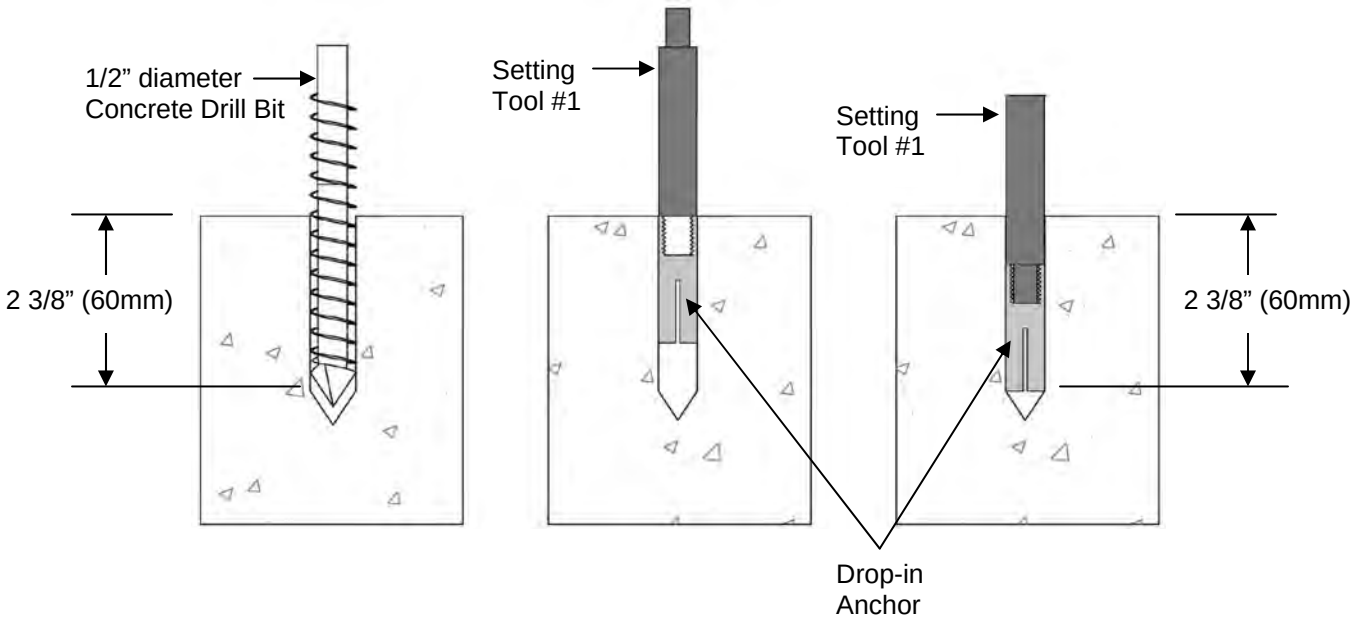
6. Drill holes 3/8" (10 mm) in diameter through the rubber nosing pads and be sure to leave a mark (partial pilot hole) in the concrete slab. Continue with the pilot holes along the full length of the joint. Remember that the anchor holes must be staggered at 12" (305mm). Use the assembled DHCP as the template to locate the holes as shown above.



Rubber Nosing Pad

Material Installation

7. Locate pilot holes from previous step. Next drill a 1/2" (13mm) diameter hole in the concrete slab at the depth shown below. Vacuum out concrete dust from the hole. It is critical that the drop-in anchor is set at the depth indicated.



NOTE: The 2-3/8” Anchor Hole Depth is a Critical Dimension!

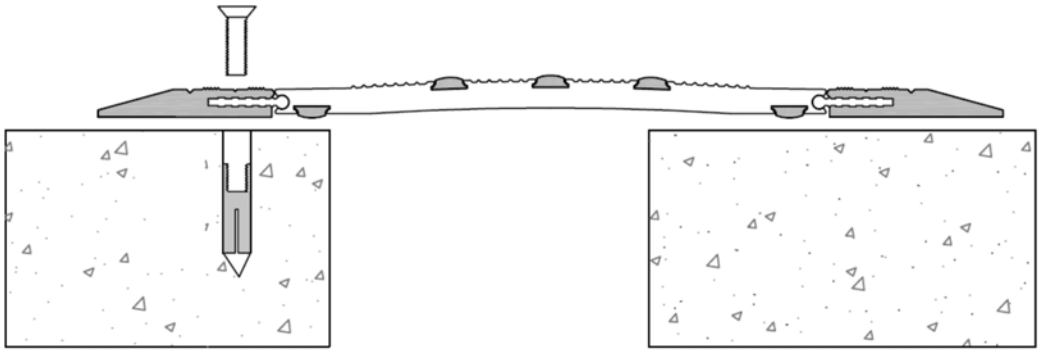
8. Place drop-in anchor in the hole. With Setting Tool #1 use the large side of the tool to tap the anchor down until it reaches the bottom of the hole.

9. Use the small end of Setting Tool #2 along with a hammer to tap down and expand the drop-in anchor and lock it into the hole.

HELPFUL TIP:
Reserve Setting Tools #1 and #2 for their individual purposes since the end being hit by the hammer will be damaged due to repeated blows.

10. Re-position the DHCP cover over the expansion joint opening aligned with the holes drilled in the concrete deck.

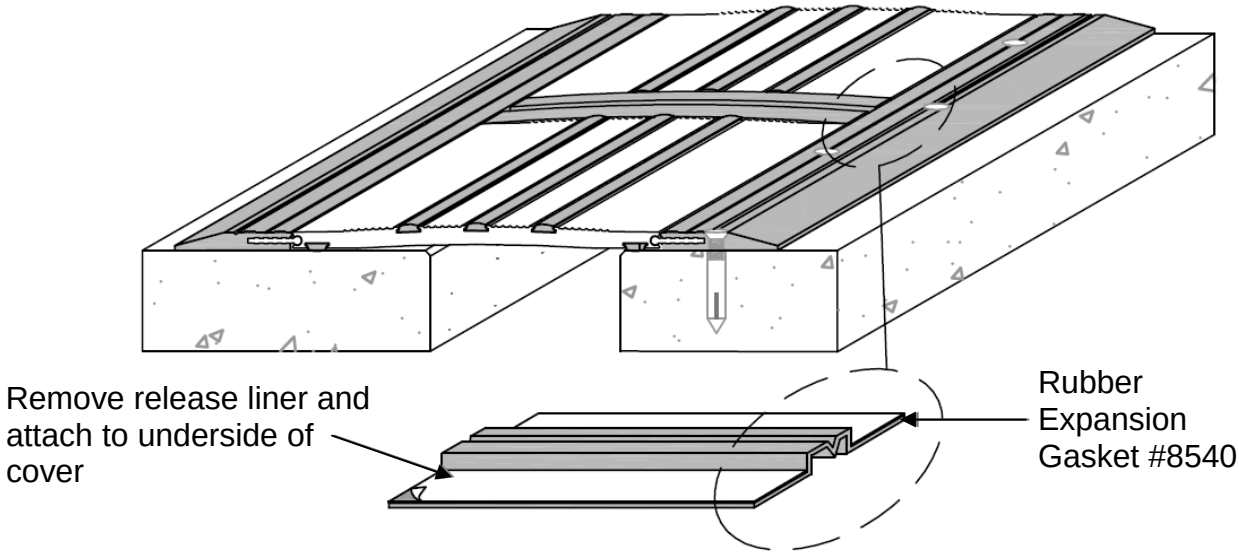
Material Installation



IMPORTANT:
Only anchor one side of the rubber nosing pad. Allow opposite side to slide freely.

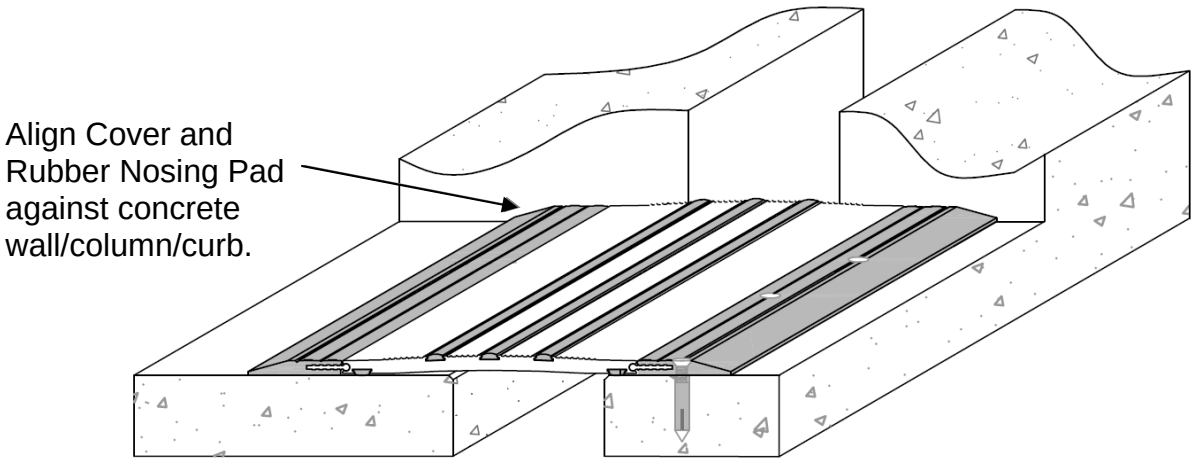
11. Insert anchor screw into the pre-drilled holes and previously installed drop-in anchors. Tighten the anchor screw until the head is slightly recessed into the rubber nosing pad.

12. Expansion Gasket/Vehicular Applications - Allow for expansion of the aluminum cover plate by installing a rubber expansion gasket (ordered separately) in the middle of every drive lane for vehicular applications. Remove release liner from the flap on each side of the gasket. Adhere the flaps to the underside of the aluminum cover. Position between the rubber nosing pads.

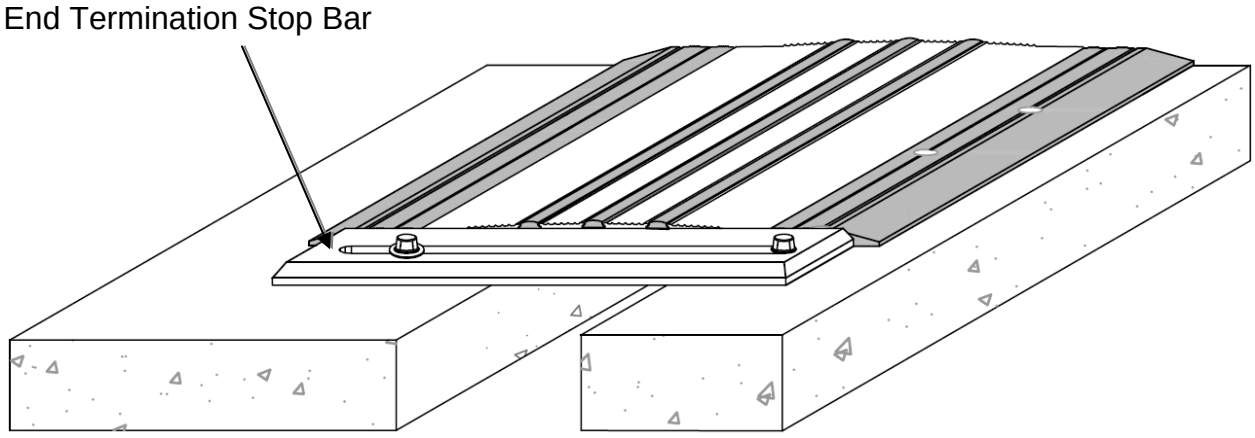


Material Installation

13. The DHCP must terminate against a wall, column, curb or abutment as shown below. The rubber expansion gasket in the center of each drive lane allows the DHCP cover to naturally expand and contract.

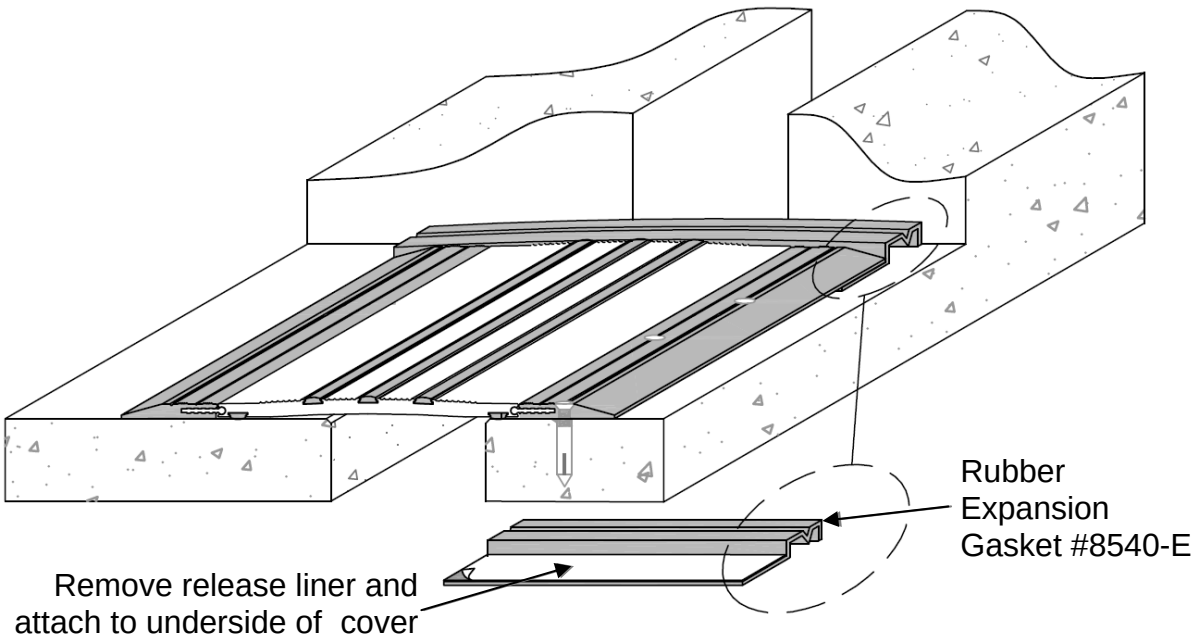


14. If the DHCP terminates in an open area (no wall, column, curb or abutment) then an aluminum stop bar (sold separately) must be used at the end of the run. This prevents the nosing pad and the aluminum cover from being pushed to one side due to vehicular traffic.



Material Installation

15. Expansion Gasket/Pedestrian Applications - Allow for expansion of the aluminum cover plate by installing a rubber expansion gasket (ordered separately) when the DHCP is used in pedestrian only applications as shown below. Remove release liner from the flap of the gasket. Adhere the flap to the underside of the aluminum cover. Position against wall, column, curb or abutment.



Clean Up

1. After work is complete, clean all exposed surfaces with a suitable cleaner that will not harm or attack the rubber or aluminum.

2. Protect the system and its components during construction. Heavy construction vehicles will not be permitted to cross the expansion joint. Subsequent damage to the expansion joint system will be repaired at the contractor's expense.

END OF SLAB-TO-SLAB INSTALLATION

SLAB-TO-WALL INSTALLATION INSTRUCTIONS

Material Preparation

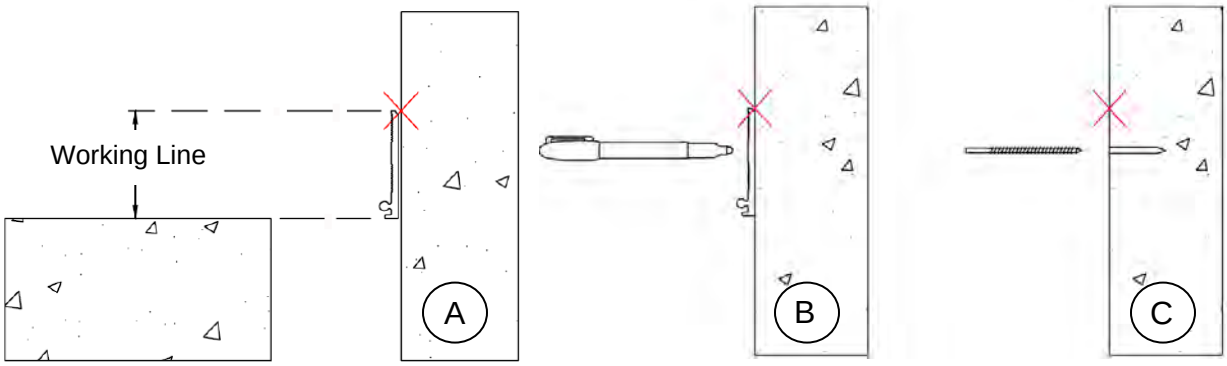
1. Refer to and follow steps on page 1 of Installation Instructions

Material Installation

1. Position the DHCP wall plate over the expansion joint opening. Snap a work line on the wall or column to align multiple sections.

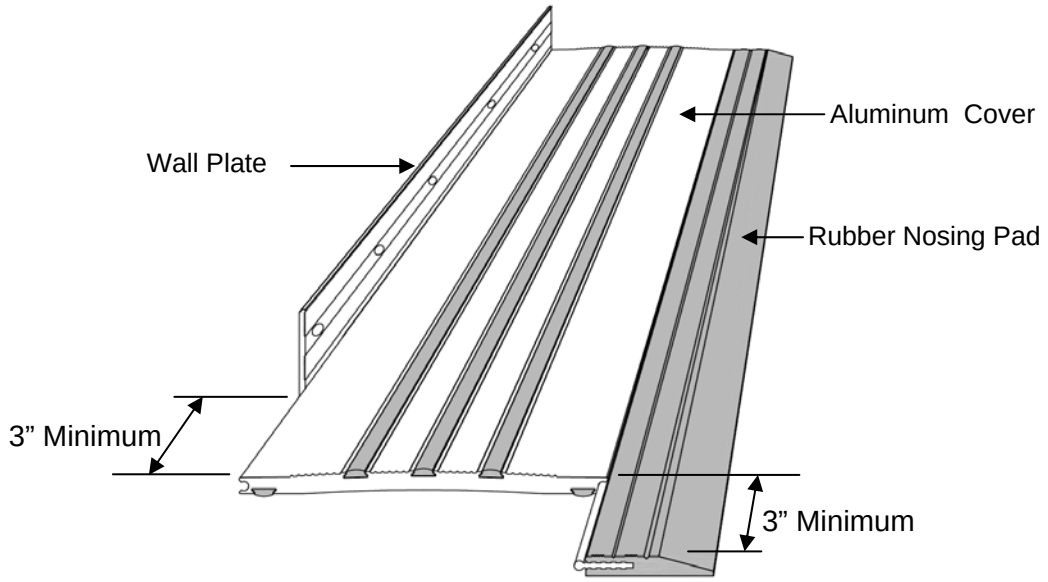
2. Position the DCP wall plate along the work line. Use the wall plate as a template to locate and mark the position of the anchors.

3. Move the wall plates to the side and drill 3/16" (5 mm) diameter x 1-3/4" (44 mm) deep holes.

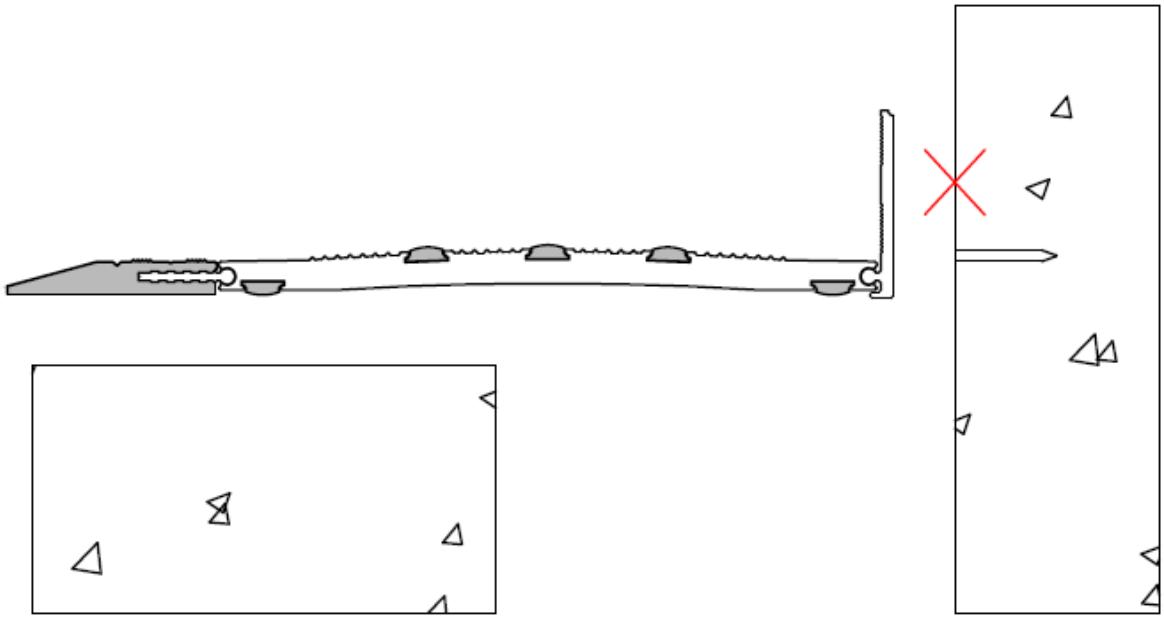


4. Pre-assemble by sliding the nosing pad and wall plate into the aluminum cover plate. Extend the nosing pad and wall plate into the next aluminum cover plate by a minimum of 3" (76mm) and no more than 6" (152mm). The inter-locking of the nosing pad, wall plate and aluminum cover will help keep the system straight and parallel.

Material Installation



5. Position pre-assembled DHCP wall assembly along the working line and align with anchor holes. Vacuum out concrete dust from the holes. Attached pre-assembled DHCP wall assembly using tapcon anchors.



Clean Up

1. After work is complete, clean all exposed surfaces with a suitable cleaner that will not harm or attack the rubber or aluminum.

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END OF SLAB-TO-WALL INSTALLATION