nystrom®

Installation, Operation + Maintenance Manual

RUBBER COATED HEAVY-DUTY SYSTEM – SURFACE APPLICATION

Model(s): RCP-N

GENERAL DESCRIPTION

Nystrom RCP-N series Rubber Coated Heavy-Duty Hinge System is rated for low-speed vehicular traffic but is also commonly used on pedestrian walkways.

GENERAL SAFETY PRECAUTIONS Improper selection, installation, or use can cause personal injury or property damage. It is solely the responsibility of the user, through their own analysis, to select products suitable to the specific application requirements, ensure proper maintenance and use as intended. Follow local, state, and federal regulations for proper installation and operation requirements.

Introduction + Safety

Please read the complete instructions carefully before beginning any work. To ensure proper installation and performance of the product, the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

Transportation + Storage

- Inspect all shipments and materials for missing or damaged components and hardware.
- Material must be stored in a clean, dry location.

Preparation

- Locate the packing slip(s) and/or shop drawings.
- Verify that all products listed on the packing slip are included in the package.
- Check the products for damage. If products are damaged, report a freight claim immediately and leave the products in their packaging. If you sign for products without reporting damage you waive your right to a freight claim and will be responsible for their replacement cost.
- Read the instructions thoroughly before beginning installation.

Tool List

- Tape measure
- Chop saw to cut product to length
- Electric drill with ½" high speed countersunk drill bit, 3/8 masonry drill bit, Torx Bit TX50
- Broom & dustpan or vacuum
- Level
- Silicone sealant

Included with the expansion joint system:

- Standard Screw Anchor 3/8" x 3" carbon steel, zinc coated flathead screws (Item# 32391)

Option(s) available for the expansion joint system:

- Additional Color(s) : Gray and Yellow
- Stainless steel anchors 3/8" x 3" flathead screws (Item# 32392)

Preinstallation

1. Ensure the area where the expansion joint system is being installed (including the blockout area) is smooth and level. High spots should be ground down and low spots filled in. Make sure the substrate is clean by sweeping and/or vacuuming substrate.

2. It is important to understand that anchors are typically installed along one running edge. This allows for any thermal movement of structural expansion joints under the RCP. Specific conditions may require anchors along both edges of the panels. Locations of the anchors are 1.375", 1.50" or 1.625" from the edge of the panel, and are identified by a "V" shaped, continuous groove. The anchors are typically installed at 16" on center with 4" end spacing for 6' panels. For 5' panels the anchors are typically spaced at 18" on center with 3" end spacing.

3. Unpack and lay out the cover plates. Note that the panels have molded tongue and groove ends. Be sure to align the panels so that the mating ends align. Measure and make any cuts on the jobsite to meet overall length conditions. The cover plates can be miter cut in the field to accommodate any change of direction conditions.

Anchoring

1. Drilling of the panels is accomplished by using a 1/2” high speed countersunk drill bit. (by others)

2. Drilling of the typical floor anchorage holes is accomplished by using a 3/8” masonry drill bit. Drill (by others) to a minimum of 3” deep. Blow out all anchor holes to remove all dust.

3. The standard screw anchor is a 3/8” x 3” carbon steel, zinc coated flathead screw (Item# 32391). A stainless-steel option is available which is a 3/8” x 3” stainless steel flathead screw (Item# 32392). Both anchor options utilize a hex head and require a Torx Bit TX50. (by others)

4. Insert the anchor through the cover plate. Drive the anchor into the anchor hole until firmly seated. Follow initial tightening by torquing the anchor to 18’-lbs.

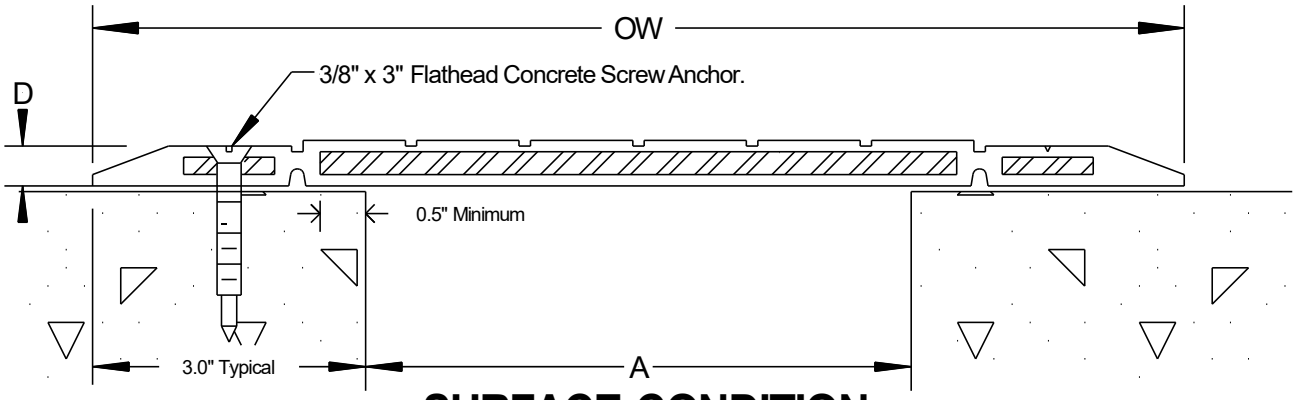
INSTALLATION

1. It is recommended that the cover plates be located over the joint gap per project conditions and that a chalk line should be snapped to ensure a straight installation.

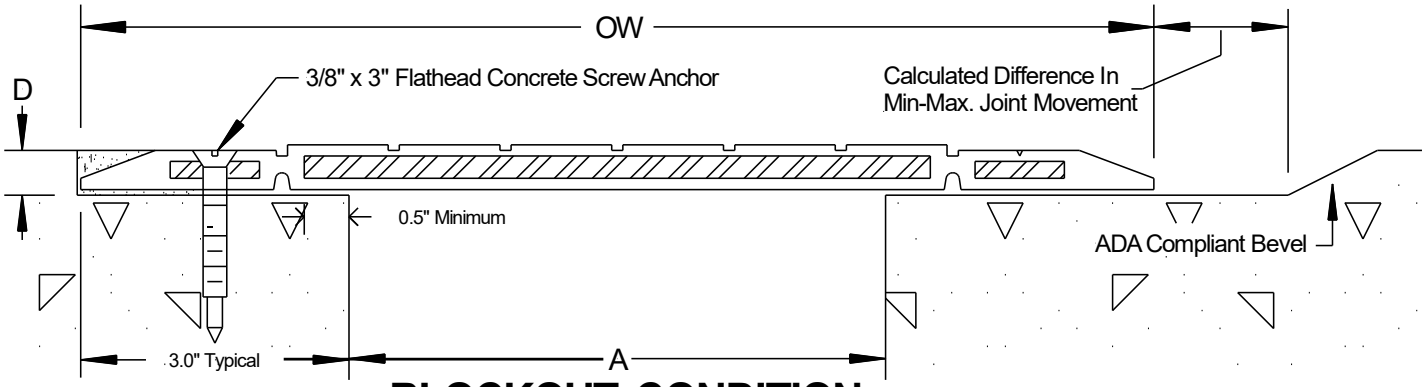
2. Begin by drill the panels utilizing the 1/2” high speed countersunk drill bit as outlined above. Next, using the panel as a template locate and predrill the pilot holes in the concrete deck for the anchor at each end of the 6’ panel, utilizing a 3/8” masonry bit. Blow out any dust and partially insert an anchor in each of the end locations. This will hold the panel in place. Now using the panel as your template, drill a pilot hole in the remaining anchor locations. It is recommended that the adjoining plate section ends be held apart from each other by 1/8” to allow for thermal expansion.

3. All the steps in this process will be repeated for each section.

4. The installation can be opened to traffic once the anchorage is fully secured into place. Ensure that all panels are fully anchored and are well seated to the deck prior to introduction of traffic.



SURFACE CONDITION



BLOCKOUT CONDITION

QUESTIONS?

For more information on installation, repair or replacement, please contact Customer & Sales Support at 800-547-2635 or visit nystrom.com