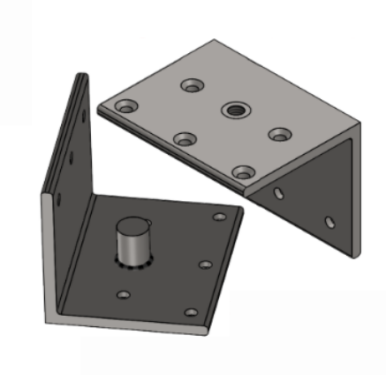
For full installation details, engineering data, & updated specifications, scan the QR code

NB12- Glass Railing Installation Guideline

Model: NB12

Patent Number: US 11,591,799



Substrate Requirements

The NB12 Mount must be installed into a rigid, structural substrate that meet engineer's specifications.

Approved substrates: Wood, Concrete, Steel.

Layout & Pre-Drilling

Position the base shoe on the membrane surface area per layout intent with center of base shoe 1 7/16" away from the edge of the structure.
Mark all attachment hole locations
Remove the base shoe, exposing the marked areas.
Drill holes at each mark using a **1" diameter bit to a depth of 1.25".**
Clear debris from all drilled holes.

Dry Fitting

- Bolt the NB12 Mounts to the base shoe using **hand tools only.**
- Apply manufacturers recommended sealant to the underside of NB12 and dry fit the NB12 assembly with the base shoe attached, into the pre-drilled holes so the mounts sit flush and aligned on the membrane surface.

Fastening to Structure

Secure the **NB12** mounts to the substrate into all countersink fastening holes (3 on surface & 3 on face of structure) using the following:

- Wood: Project-engineer-approved #14 Stainless steel flathead screws
- Concrete: Project-engineer-approved #14 stainless steel flat head screws
- Steel: Project-engineer-approved #14 self-tapping screws

Base Shoe Removal & Port Protection

- Unbolt and remove the base shoe.
- Fasten 2 remaining countersink holes. Make sure **NB12** is level.
- Insert port protection caps into the internal threaded ports of each **NB12** to prevent contamination during waterproofing.

Surface Prep & Waterproofing

- Scarify and apply waterproofing to each NB12 mount per the waterproof flashing manufacturer's recommendations.
- After curing, cut out the port protection caps slightly beyond their diameter to fully expose the internal threads.

Washer Placement & Reassembly

1. Place a metal washer of at least 2.5" x 2.5" x 1/16" thick over each waterproofed **NB12** mount before installing the base shoe.
    - Never allow the base shoe to sit directly on the membrane
    - Use additional/thicker washers to adjust as needed.

2. Align and bolt the base shoe into the internal threaded ports of the **NB12** mounts using:
    - ½"-13 bolt
    - Ensure bolt is fully seated in the port without bottoming out
    - Torque to 60 ft-lbs using a hand tool only
    - Medium-strength Loctite recommended
    - Do not use power tools for final tightening.

Need Help?

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