



| NYLON NAIL ANCHORS | | | | | | | | | | FF-S-325, Group V, Type 2, Class 4 | | | | | |
|--------------------|------------------------|---------------|-------|-----------|-------|------------|-------|------------------|-----------------------|------------------------------------|----------------------|--------------|--------------------|--------------|--|
| Anchor Size | Fixture Clearance Hole | H1 | W1 | H2 | W2 | H3 | W3 | Performance Data | | | | | | | |
| | | Mushroom Head | | Flat Head | | Round Head | | Embedment Depth | In 4000 psi. Concrete | | In C-90 Hollow Block | | In Solid Red Brick | | |
| | | Height | Width | Height | Width | Height | Width | | Tensile (lbs.) | Shear (lbs.) | Tensile (lbs.) | Shear (lbs.) | Tensile (lbs.) | Shear (lbs.) | |
| | | Ref | Ref | Ref | Ref | Ref | Ref | | | | | | | | |
| 3/16 | 1/4 | 1/8 | 9/16 | 1/8 | 3/8 | 1/8 | 3/8 | 3/4 | 195 | 320 | 170 | 280 | 155 | 320 | |
| | | | | | | | | 1 | 220 | 320 | 180 | 280 | 170 | 320 | |
| 1/4 | 5/16 | 1/8 | 9/16 | 1/8 | 7/16 | 1/8 | 7/16 | 5/8 | 140 | 500 | 110 | 320 | 150 | 500 | |
| | | | | | | | | 3/4 | 240 | 500 | 160 | 320 | 200 | 500 | |
| | | | | | | | | 1 | 250 | 500 | 170 | 320 | 220 | 500 | |
| | | | | | | | | 1 1/2 | 270 | 500 | 200 | 320 | 240 | 500 | |
| | | | | | | | | 2 | 285 | 500 | - | - | - | - | |

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| Description | A fastening system which consists of two parts: (1) a nylon piece similar in design to a blind rivet which has a cylindrical shank split on two sides, 180° apart, extending from the bottom of the shank up most of the distance to the head. The shank has several ribs extending completely around its circumference. Mushroom, pan and flat head styles are available; (2) a steel pin expander which passes through a concentric channel extending from an opening in the top of the head of the nylon piece down into the shank to a point just below the spot where the split ends below the head. The pin has a slot across the top of its head, a chiseled point similar to a nail, and threads on its own shank which helps to lock the anchor in place upon installation. |
| Applications/ Advantages | Installation is achieved by inserting the end of the nylon shank into a pre-drilled hole and hammering the head of the nail until it meets the head of the anchor body. Driving the nail through the body expands the split ends which allows the ribs to grip the wall of the prepared hole. This is a light duty anchor for use in solid materials such as concrete, brick and block, preferred when fixtures must be attached without chipping the fixture or the masonry. Can also be used like a toggle bolt in wallboard or plaster, or as a blind rivet in joining several thicknesses of material together, especially in applications subject to vibration. The nylon withstands temperatures from -40°F to 170°F. |
| Material | Body: Injection molded thermoplastic nylon Expander Pin: AISI 1018-1021 or equivalent cold rolled steel, zinc plated |
| Anchor Spacing | Anchors should be spaced 18-24 inches apart (measured from the center of the anchor) |
| Minimum Hole Depth | Hole should be drilled to a depth of at least 1/4" deeper than the required embedment. Likewise, the thickness of the base material should be at least 125% of the embedment to be used. |
| Tensile Strength | Nylon nail anchors shall not be removable or show evidence of failure when subjected to axially applied proof test loads as specified in the above table when set in concrete of 3000 psi. compressive strength. The suggested safe working load is one-fourth the loads shown in the above table. |