

NAILBASE NO. 4004

SUBJECT: FASTENING TO CONCRETE OR FULLY-GROUTED CONCRETE MASONRY WALLS

DATE: APRIL 2010 (REVISED JANUARY 2019)

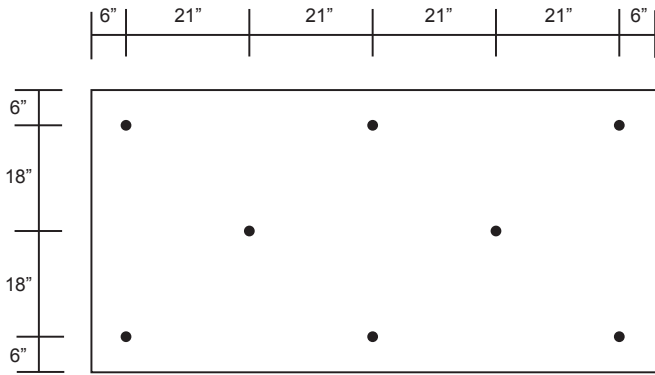
Minimum fastening requirements for R-Shield® Nailbase attached to concrete or fully-grouted concrete masonry walls with 1/2” (12.7mm) diameter Titen HD® screws have been developed in cooperation with Simpson Strong-Tie Anchor Systems. Various numbers of fasteners per 4’ x 8’ R-Shield Nailbase panel provide for a range of allowable loads that R-Shield Nailbase could support when installed flush over a concrete or fully-grouted concrete masonry wall. Examples of uniformly distributed loads that R-Shield Nailbase could support include gypsum board or other interior finish materials. Non uniform loads from cabinets, interior fixtures, or plant equipment are not covered in the table and shall be supported using additional fasteners attached to the concrete or fully-grouted concrete masonry wall.

R-Shield Nailbase Walls - Uniformly Distributed Loading attached with 1/2” (12.7mm) diameter Titen HD® Screws into Concrete or Fully-Grouted Concrete Masonry¹⁻⁷	
Number of Fasteners⁶	Allowable Load, psf (kPa)
8	13 (0.62)
12	34 (1.63)
16	52 (2.49)
24	52 (2.49)

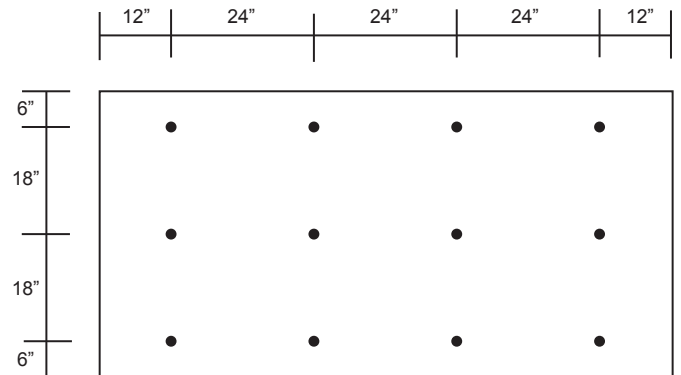
1. Applicable to 4’ x 8’ R-Shield Nailbase up to 5” thick.
2. The minimum anchor embedment is 2-3/4”.
3. The minimum wall thickness is 8” for fully-grouted concrete masonry and 5” for concrete.
4. For installations in fully-grouted concrete masonry, the minimum distance from the anchor to any vertical mortar joint is 1.5” and the minimum distance to any edge on the face of the wall is 6”. For installations in concrete, the minimum distance to any edge of the face of the wall is 6”.
5. Values do not consider the application of positive or negative pressures (such as wind).
6. Please refer to page 2 of this bulletin for fastening patterns.
7. Building Codes may require special inspection of anchors installed in concrete or masonry. For compliance with these requirements, it is necessary to contact the local and/or regional authority having jurisdiction.

Titen HD® is a registered trademark of Simpson Strong-Tie Anchor Systems.

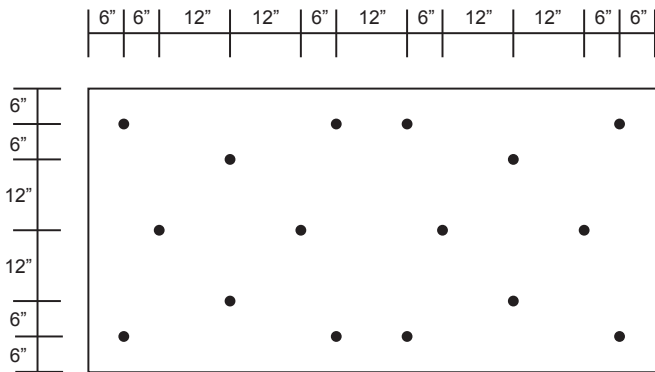
FASTENING PATTERNS FOR 4' X 8' NAILBASE



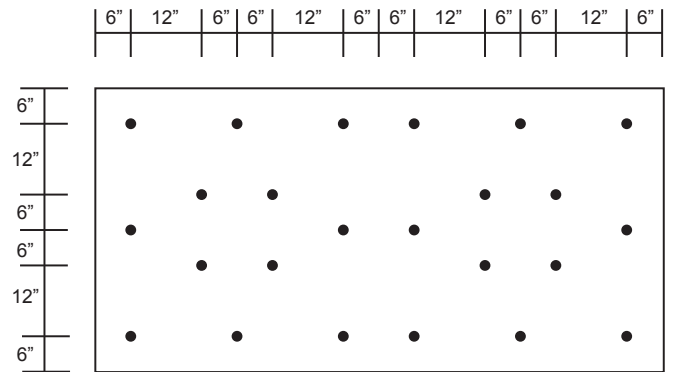
8 FASTENERS/BD.



12 FASTENERS/BD.



16 FASTENERS/BD.



24 FASTENERS/BD.