

*Bottom Plate Attachment through
1/2" EXACOR® Underlayment¹*

EXACOR® underlayment panels are installed over the structural subfloor prior to the installation of bottom plates and framing. In this situation, fastener penetration into the joist, rim joist, band joist, or blocking is reduced due to the added layer of underlayment. As a result, additional fasteners are required to fasten the wall bottom plate through the 1/2" EXACOR underlayment in braced and unbraced wall panel applications constructed using prescriptive methods. An attachment detail may also be engineered by a licensed design professional.

The fastening requirements for bottom plate attachment to 1/2" EXACOR panels installed over subfloor can be found in the table below, and it contains two options for braced and two options for non-braced walls. Nails with a 0.131" diameter are normally referred to as 8d common but are only 2-1/2" long. In order to achieve the required penetration, the length must be increased to 3.5". For either application (i.e., braced or unbraced), either fastener alternative is acceptable as long as the stated fastener size and on-center spacing is used.

Application ^{2,3}	Fastener Size	On Center Spacing
Unbraced Wall Panel Applications	two 0.131" x 3.5" nails	12" o.c.
	two 0.162" x 3.5" nails (16d common)	16" o.c.
Braced Wall Panel Applications	four 0.131" x 3.5" nails	8" o.c.
	two 0.162" x 3.5" nails (16d common)	8" o.c.

1. This Technical Tip addresses the bottom plate attachment for 1/2" EXACOR underlayment. For EXACOR panels used as underlayment that are 5/8" or thicker, bottom plate attachment must be detailed by a licensed design professional.
2. All fasteners must penetrate into floor joist/truss, rim board/joist, band joist or solid blocking.
3. All fasteners used to attach the wall bottom plate must be corrosion resistant or coated for corrosion resistance (hot-dipped galvanized or better).