Issued: January 12, 2012
Revised: February 2, 2026

Technical Newsletter #30 2.0

Subject: Criteria for selecting fasteners (nails and staples) to install MIRAGE flooring

This newsletter provides the criteria for choosing the right nails and staples to install MIRAGE flooring as well as a few rules of thumb to ensure the installation is just right.

Fastener selection criteria

Product	Fastener gauge		Minimum length	Space between fasteners	Distance of fastener from the ends
	U-shaped staple	L- or T-shaped nail			
TruBalance/ Northern Solid Sawn 3/4" (19 mm)	Min.: 18 ga Max.: 15,5 ga	Min.: 18 ga Max.: 15,5 ga	1-1/2" (38 mm)	4 to 6" (100 à 150 mm)	Between 2" and 3" (50 and 75 mm)
TruBalance Lite/ Northern Solid Sawn Lite 9/16" (14 mm)	Min.: 19 ga Max.: 18 ga	Min.: 20 ga Max.: 18 ga	1-1/4" (32 mm)	4 to 6" (100 à 150 mm)	Between 2" and 3" (50 and 75 mm)
Solid 3/4" (19 mm)	Min: 17 ga Max: 15,5 ga	Min: 18 ga Max: 15,5 ga	1-3/4" (44 mm)	6 to 8" (150 to 200 mm)	3" (75 mm)
Engineered 1/2" (13 mm)	Min: 19 ga Max: 18 ga	Min: 20 ga Max: 18 ga	1-1/4" (32 mm)	4 to 6" (100 to 150 mm)	Between 2" and 3" (50 and 75 mm)

Fasteners (nails and staples)
Make sure each fastener is placed in exactly the right spot. If it's off just a few millimeters, the surrounding wood fibers will be subjected to excessive pressure and stress.

- Fasteners should be driven in at a 45° angle.
- Fastener heads should be positioned in the provided slot in the board.
- Fasteners should not be driven too deep into the tongue and should not interfere with board positioning on the next row.

Tool maintenance
Installation tools should be regularly inspected and maintained to avoid any damage.

- The tools should not damage board sides or tongues.
- Tools may need to be adjusted for proper positioning.
- Striking force and/or air pressure may need to be adjusted for proper anchoring.

Notice
Install a vapor retardant if required. Please refer to our Technical Newsletter #27 for more information. Local building codes do prevail over any guidelines including any installation instructions supplied by the manufacturer.

Do not use a compressible acoustic underlay pad since it would create excessive noise when used with a mechanical fastener.

Installing floors with nails or staples may lead to slight shifting, causing creaking. Minor dimple effect near the fasteners is also normal. Using a fastener gauge of 18 ga could reduce this phenomenon.

MIRAGE will not accept any claims for damage caused by the use of improper or defective installation tools.

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