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# Technical Newsletter #30 1.3

## 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 from ends
	U-shaped staple	L- or T-shaped nail			
<b>Mirage Classic</b> 3/4" (19 mm)	Min: 17 ga Max: 15 ga	Min: 18 ga Max: 15 ga	1-1/2" (38 mm)	8 to 10" (200 to 250 mm)	3" (75 mm)
<b>Mirage Engineered</b> 1/2" (13 mm)	Min: 19 ga Max: 18 ga	Min: 20 ga Max: 18 ga	1-1/4" (32 mm)	4 to 5" (100 to 125 mm)	2" (50 mm)
<b>Mirage Engineered</b> 3/8" (10 mm)	Min: 19 ga Max: 18 ga	Min: 22 ga Max: 19 ga	1" (25 mm)	4 to 5" (100 to 125 mm)	2" (50 mm)
<b>Mirage Engineered</b> 3/4" (19 mm)	not recommended	Min.: 18 ga Max.: 15 ga	1-1/2" (38 mm)	4 to 5" (100 à 125 mm]	2" (50 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 inspected regularly 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 #15 black felt paper or equivalent under solid wood floors (Mirage Classic) if required. Local building codes do prevail over any guidelines including any installation instructions supplied by the manufacturer.

Using a compressible acoustic underlay pad under solid wood floors can create excessive noise when used with a mechanical fastener.

Installing floors with nails or staples may lead to slight shifting, causing creaking. Minor localized warping near the fasteners is also normal.

Mirage (Boa-Franc G.P.) will not accept any claims for damage caused by the use of improper or defective installation tools.

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