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Technical Newsletter #30 ^{1.5}

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			
Mirage Classic 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)	Between 2" and 3" (50 and 75 mm)
Mirage 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)
Mirage Engineered 3/8" (10 mm)	Min: 19 ga Max: 18 ga	Min: 22 ga Max: 18 ga	1" (25 mm)	4 to 6" (100 to 150 mm)	Between 2" and 3" (50 and 75 mm)
Mirage Engineered 3/4" (19 mm)	not recommended	Min.: 18 ga Max.: 15 ga	1-1/2" (38 mm)	4 to 6" (100 à 150 mm)	Between 2" and 3" (50 and 75 mm)
Mirage TruBalance 3/4" (19 mm)	Min. : 18 ga Max. : 16 ga	Min. : 18 ga Max. : 16 ga	1-1/2" (38 mm)	4 to 6" (100 à 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 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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