



## Technical Newsletter #30 1.8

### 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          |                   |                            |                                     |
| <b>Mirage Classic</b><br>3/4" (19 mm)          | Min: 17 ga<br>Max: 15,5 ga   | Min: 18 ga<br>Max: 15,5 ga   | 1-3/4"<br>(44 mm) | 6 to 8"<br>(150 to 200 mm) | 3"<br>(75 mm)                       |
| <b>Mirage Engineered</b><br>1/2" (13 mm)       | Min: 19 ga<br>Max: 18 ga     | Min: 20 ga<br>Max: 18 ga     | 1-1/4"<br>(32 mm) | 4 to 6"<br>(100 to 150 mm) | Between 2" and 3"<br>(50 and 75 mm) |
| <b>Mirage TruBalance</b><br>3/4" (19 mm)       | Min.: 18 ga<br>Max.: 15,5 ga | Min.: 18 ga<br>Max.: 15,5 ga | 1-1/2"<br>(38 mm) | 4 to 6"<br>(100 à 150 mm)  | Between 2" and 3"<br>(50 and 75 mm) |
| <b>Mirage TruBalance Lite</b><br>9/16" (14 mm) | Min.: 19 ga<br>Max.: 18 ga   | Min.: 20 ga<br>Max.: 18 ga   | 1-1/4"<br>(32 mm) | 4 to 6"<br>(100 à 150 mm)  | Between 2" and 3"<br>(50 and 75 mm) |

#### Fasteners (nails and staples)

Make sure each fastener is placed in exactly the right spot. If it's off by 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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