

**Q: Are there any adverse effects that the magnetic field generated by the underlayment would have on the following:**

- **Desktop computers, laptop computers and servers**
- **Wifi networks in a home or business**
- **Personal electronic devices ie smart phones, tablets, smart watches, etc.**
- **Medical equipment in a healthcare environment**
- **Pacemakers or other medical electronic implants**

**A:** No. The magnetic field of the underlayment is highly localized within a few millimeters. When the floor/wall products are installed, the magnetic flux density will be negligible. Extensive results of testing the magnetic flux emissions from the Magnebuild magnetic installation are compiled in a report from the Airmid Healthgroup Ltd. In the report it states conclusively:

*“It is important to add, given the present state of knowledge, that there is no scientifically reliable evidence, epidemiological or other, that exposure to the extremely low-level static magnetic fields likely to be encountered by close contact with the overlay and underlay materials which are the subject of this study, i.e., levels in the range 0 – 200  $\mu$ T, are in any sense harmful to humans, including those fitted with active medical implants.”*

Test reports are available for review at [magneticbuildingsolutions.com](http://magneticbuildingsolutions.com).

**Q: Are there any health-related concerns relative to the magnetic field generated by the Magnebuild underlayment?**

**A:** No. Same reason as explained above.

**Q: Is the type of magnetism used in the MBS underlayment similar to the magnets used in pain management products like magnetic wristbands?**

**A:** Yes, it is a flexible magnet with weak magnetic field.

**Q: What is the sound-performance of the underlayment when used in conjunction with LVT from the perspective of STC and IIC? Is there a  $\Delta$ IIC rating available for the MBS Underlayment?**

**A:** Reports from Magnetic Building Solutions have an STC of 53 and the IIC of 46. Metroflor is conducting 3rd party tests for STC, IIC, and  $\Delta$ IIC and will publish test results as soon as available.

**Q: How long does it take, approximately, to install a standard-size room of 15' x 20' (300 sq. ft.)?**

**A:** Estimated time to complete installation of a project of this size would take approximately 2-3 hours. This would not take into account any substantial floor prep, etc., that might be appropriate. Also, keep in mind that the magnetic underlayment will only be touched during the initial install, so subsequent installs should take about half the time. With that said, a 4 man crew installed 3000 sq. ft. of Attraxion LVT in just under 6 hours in the performance hall at Curb Records in Nashville, TN.

**Q: What should an installer expect to be paid to install our Deja New with Attraxion?**

**A:** The first installation, where installation of the magnetic layer will be required, will be similar in cost to any comparable floating installation. Some time will be saved due to the absence of a locking mechanism, but most installation companies will probably expect a similar rate. It is also important, I believe, to encourage our installation people to embrace this installation method and if the rate dips

(too much) below the norm, it could be counter productive.

**Q: Is the underlayment glued to the subfloor?**

**A:** No. The underlayment is loose laid on the floor but in some instances may need to be attached the subfloor at the perimeter and seams with Magnebuild double-stick tape. (Identify instances.)

**Q: Can the underlayment be used as a vapor barrier for moisture mitigation?**

**A:** Yes. In order to dual purpose the underlayment as a vapor barrier, tape the seams from the bottom side of the underlayment using Magnebuild's waterproof single-side tape.

**Q: Will water adversely affect the magnetic attachment?**

**A:** No. The magnetic underlayment actually repels water/moisture, pushing it to the perimeter of the underlayment.

**Q: What is the size of the underlayment roll?**

**A:** The roll size is 3' wide x 30' long and weighs approximately 80 lbs./roll.

**Q: What are the fire/smoke ratings for the underlayment?**

**A:** Full test reports are available at [magneticbuildingsolutions.com](http://magneticbuildingsolutions.com)

- ASTM E648 Critical Radiant Flux: 1.14 Watts/cm<sup>2</sup>; Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101.
- ASTM E662 Smoke Density (Flaming): 61; PASSES the requirements of 450 or less.
- ASTM E662 Smoke Density (Non-Flaming): 70; PASSES the requirements of 450 or less.

**Q: Is an expansion gap required?**

**A:** Yes. ¼" expansion gap is required for the underlayment and the LVT at the perimeters of the installation to allow for any thermal expansion.

**Q: Is acclimation of the underlayment and LVT required?**

**A:** Yes. 48 hours of acclimation is required in the room where the floor will be installed at between 65°-85°F (18°-29°C) and 35%-85% RH.

**Q: Is there a top and bottom side of the underlayment?**

**A:** Yes. The magnetic or top side of the underlayment faces up when the underlayment is rolled out on the floor. The magnetic/top side is also the shiny side of the underlayment.

**Q: Does the magnetism of the underlayment have a lifespan?**

**A:** No. The magnetism of the underlayment does not diminish over time and can subsequently be used with multiple Attraxion LVT installations for an indefinite period of time allowing the enduser to substantially reduce the cost and time of installation for the subsequent installations.

**Q: How does the LVT attract to the magnetic underlayment? Is there metal in the LVT?**

**A:** A "receptive" film layer is applied to the bottom of a dryback LVP/LVT that contains a ferrite (iron) powder that attracts to the magnetic underlayment and facilitates the attachment.

**Q: Will the Attraxion LVT stay in place or is there potential to slide and cause gapping at the seams?**

**A:** While the Attraxion LVT plank or tile can be easily lifted vertically, the resistance to horizontal movement is extremely strong with a sheer strength that is greater than or equal to that of a glue down installation. Test reports of sheer strength are available upon request.

**Q: Can the Attraxion system be used over access floor systems?**

**A:** Yes. The flooring can be easily lifted and the underlayment cut with a utility knife to access the trunk system. Afterwards, the underlayment is replaced and the seam sealed from the bottom using the Magnebuild single-sided tap to secure the underlayment in place. The flooring is then placed back into its original position.

**Q: Can the underlayment be installed over radiant floor heating systems?**

**A:** Yes. The surface of Radiant-heated substrates must not exceed 85°F (29°C).

**Q: How do I cut the underlayment?**

**A:** The underlayment is easily cut with a utility knife.

**Q: Can Attraxion LVT be installed over existing flooring?**

**A:** Attraxion LVT can be installed over the following types of existing floor coverings:

- Resilient Sheet Vinyl
- VCT (on grade or suspended)
- Ceramic Tile, Terrazzo, and Marble (fill groutlines)
- Concrete (all grade levels)
- Polymeric Poured Floors



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