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# Technical Newsletter #20 1.4

## Mirage recommended waterproof acoustic membranes for use under TruBalance or Lock with floated installation.

The goal of this technical newsletter is to review waterproof acoustic membranes and the minimum parameters needed to maintain the Mirage TruBalance or Mirage Lock lifetime structural warranty.

- When installing TruBalance or Lock floors with floated installation, Mirage recommends using the membrane distributed by Mirage.
- For greater flexibility in selling TruBalance or Lock products, you may also use other membranes. However, they have to meet the following minimum criteria:

	Minimum criteria	Limit and comment	Standard
A	Compressibility at 25% deflection or Maximum Deflection @ 5 psi of load <i>test done on one membrane only</i>	≥ 6 psi if between 1 mm and 2.5 mm thick	ASTM D-3575
		≥ 8 psi if between 2.6 mm and 3.5 mm thick	
B	Maximum service temperature	120°F [50°C]	
C	Thickness	≤ 3.5 mm	
D	Water vapor transmission [WVT]	≤ 0.6 lb / 1,000 sq. ft. / 24 hrs	ASTM E-96

### IMPORTANT NOTE:

Once you have selected your membrane, Mirage cannot be held responsible and makes no guarantees whatsoever with regard to

1. The membrane manufacturer's long term warranty
2. The acoustic performance of the membrane or the floor assembly
3. The chemical composition of the membrane [VOCs, formaldehyde, or other products]
4. Problems installing the membrane or its accessories
5. The membrane supplier's claim management process
6. A membrane that compromises the stability of the floor due to a slippery top layer causing floor displacement in some areas *\*\* The use of installation springs [specially designed for floating products] can help reduce some floor movement.*

When you select a membrane, the manufacturer must guarantee in writing that the membrane meets all the minimum criteria [A, B, C and D, if waterproof] recommended by Mirage. The membrane manufacturer must also assume sole responsibility for meeting the above-mentioned parameters [1 to 6].

Choosing the right membrane is a critical step in ensuring the short and long term integrity of your TruBalance or Lock floor assembly. **Using a membrane that does not meet the above criteria or that causes any damage to the floor automatically invalidates the lifetime structural warranty on Mirage TruBalance or Mirage Lock products.**

We thank you in advance for your cooperation and invite you to notify your sales staff and dealers, as well as their customers, of these changes.

Dino Tremblay, Technical Department Manager 1-800-463-1303