

Manero ULTRA-LITE (R) the portable dance floor

The ultralative among the dance floors

Manero ULTRA-LITE – the portable dance floor ... that is good for your health.

You can feel it: you tire more easily on hard floors, and your feet burn. Your joints and tendons suffer, and there is often a risk of painful long-term damage.

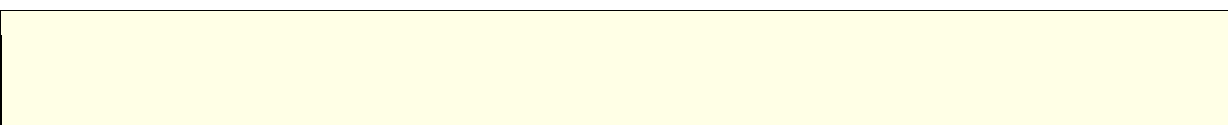
You know it: cushioned floors are good for you, for your musculoskeletal system, and they reduce the risk of long-term damage.

You know it: the floors where you perform and train are often relentlessly hard.

You and all stage engineers and stagehands know it: cushioned floor systems are either unavailable, or no-one wants to store or transport these heavy things for “the few” minutes of performance or the “few” hours of training, let alone to spend hours assembling them.

That is why we have developed the mobile sub floor Manero ULTRA-LITE for you:

- the active composite foam system provides 37% cushioning
- jigsaw system for easy laying
- low weight and volume saves work, storage and transportation costs.



Ultra-sparing

Have you ever wondered why classical dance floor systems are so painfully hard? Especially since they are supposed to absorb 50% and more of the force with which you land on them?

The answer lies in their mass and their system. Classical dance floor systems do not start to function until the force with which you land on them is high enough. This force is not high enough at the first contact, and you feel pain especially in the elbows, knees, hand, finger and foot joints, or in your head.

Manero ULTRA-LITE spares you right from the first contact!

Unlike classical dance floors, the active composite foam system functions right away and spares your joints not only inside your body, but also reduces the direct impact pain on the surface of the skin.

Ultra-healthy

With all due focus on health during dance and acrobatics: would you want to ruin your back while assembling heavy dance floor boards?

Manero ULTRA-LITE is healthy for everyone!

37% cushioning for the health of the performers.

7kg/m² light for the assembly team.

Ultra-dynamic

You want fly high – especially when you jump.

Manero ULTRA-LITE has an incredible 100% ball reflection. For you to take off!

Manero ULTRA-LITE – the portable dance floor ... that makes your life easy.

Ultra-easy to assemble

You never want any tiresome discussions again about who is going to assemble the heavy dance floor for how long and what for, just for a few hours of training or a few minutes of performance?

Simply assemble the easy Manero ULTRA-LITE jigsaw pieces yourself – and disassemble them again!

But then, helpers will soon be queuing up to help you with this playful activity anyway.

Ultra-easy to transport

Do high transportation costs, overloaded elevators and trucks annoy you?

Do you start to sweat when you merely think about all the heavy transport trolleys on which you had to push the classical “portable” dance floors to wherever they were needed in the past?

Spare yourself all that with the Manero ULTRA-LITE due to 75% less weight:

Spare yourself 75% “shoving and sweating”.

Spare yourself 75% of the transport costs.

Ultra-easy to store

Do the many storage trolleys bearing your classical “portable” dance floor waste space in your storage area?

Spare yourself 75% of the storage and transport volume with Manero ULTRA-LITE – and save a lot of money in the process.

Manero ULTRA-LITE – the portable dance floor ... that you can rely on.

Ultra-strong

Rolling loads are the rule on the stage. Manero ULTRA-LITE takes on even the heaviest rolling loads, such as pallet trolleys or forklifts, with ease.

Ultra-robust

Manero ULTRA-LITE doesn't give up, even when you drop hard, heavy objects such as hammers on it. Even high heels or stilettos cannot harm it.

Ultra-safe

Manero ULTRA-LITE is permanently flame-retardant according to EN 13501 class Cfl- S1.

Factbox: Manero ULTRA-LITE – save money, time and space 3x

3x lighter

Manero ULTRA-LITE is 3 times lighter than classical dance floors.

7kg/m² instead of 21kg/m² ensure easy assembly and you also save transportation costs.

3x more space-saving

Manero ULTRA-LITE needs 3 times less space than classical portable dance floors.

13mm instead of 40mm storage height saves storage space and thus storage costs.

9x faster

It takes less than one minute to assemble a Manero ULTRA-LITE element. That makes you almost ten times faster than when assembling groove-and-tongue systems – you save about 90% in working time and assembly costs!

Footnote: Based on 3-man team consisting of one person pushing the transport trolley and two people assembling the Manero ULTRA-LITE.

Factbox: Manero ULTRA-LITE – technical data

High-end compound system for robustness and permanent elasticity

Manero ULTRA-LITE is a compound system of special foams and several bearing layers. The aging-resistant ultra-elastic special glues guarantee permanent elasticity and extreme robustness, combined with low weight and high cushioning.

CNC precision milling for perfect fit

All Manero ULTRA-LITE elements are CNC-milled. This guarantees a perfect fit, even with follow-on orders many years later.

Standard testing in accordance with EN 14904

As a high-end sub floor, Manero ULTRA-LITE must also meet the highest mechanical demands. In addition to long-term tests and quality assurance samples during production, the Manero ULTRA-LITE was subjected to the following standard testing based on the standard EN 14904 for sport floors:

- Force reduction acc. to EN 14904: 37% - rating as sport floor type 2
- Vertical deflection acc. to EN 14904: fulfilled
- Vertical ball rebound acc. to EN 14904: 100%
- Rolling load behaviour acc. to EN 1569: fulfilled with floor covering
- Fire behaviour acc. to EN 13501: Cfl-s1 flame-retardant
- Indentation resistance acc. to EN 1516: fulfilled with floor covering
- Impact resistance acc. to EN 1517: fulfilled with floor covering
- Formaldehyde emissions acc. to EN 717-2 max. 3.5 mg/m²h: fulfilled
- Pentachlorophenol content acc. to EN 14904 max. 0.1%: fulfilled

Factbox: Manero ULTRA-LITE - application

Standard elements

Manero ULTRA-LITE is available in the following standard elements:

Panel large: 95x190cm

Panel small: 95x95cm

Edge element type "0": 95x60cm

Edge element type "1": 95x65cm

Corner element 65x65cm

Weight: 7kg/m²

Thickness: 13mm

Special shapes are available on request.

Assembly

Manero ULTRA-LITE is assembled easily and without the use of glues or adhesive tapes.

The patented jigsaw system ensures immediate and stable interlocking. The use of "small" panels allows for an offsetting of the panels that makes the assembly even more stable.

The type "0" edge elements close off the two edges with the "jigsaw tongues", whilst the type "1" edge elements close off the two edges with the "jigsaw groove". Four corner elements connect the edge elements.

Floor covering

Manero ULTRA-LITE is a sub floor and intended only for use with floor coverings.

TÜCHLER recommends the use of the dance floor coverings Drosselmeyer, ConfiDance or Consor. The test data for combinations of these floor coverings with Manero ULTRA-LITE with regard to force reduction, vertical deflection, vertical ball rebound, rolling load behaviour, fire behaviour, indentation resistance and impact resistance are available.

1. Visible impact

Standard tests in detail

Testing of rolling load behaviour in accordance with EN 1569

The floor is exposed to a loaded test wheel made of steel that is rolled back and forth.

- Weight: 1500n / 150kg
- Total number of passes: 300
- Wheel diameter 100 mm
- Width 30 mm

The floor is exposed at the critical areas (module joints).

The residual impression remaining 20 minutes after performance of the load test must not be greater than 0.5 mm according to ÖN EN 14904. There must not be any visible damage.

Impact resistance testing according to EN 1517

The floor is stored at 50°C for 14 days and then exposed to impacts with a cylindrical test stamp (diameter 11.3 mm) with a mass of 800 g that is dropped from a height of 1 meter at a temperature of 10°C.

The test is performed at various points. Any damage to the floor is described and the deformation in the exposed area is measured after a period of 24 h (ÖN EN 14904 requirement: no cracks, no splinters, no permanent indentation).

Indentation resistance testing according to EN 1516

The floor is exposed to a cylindrical test stamp (diameter 25 mm) with a force of 500 N for 5 hours. The deformation beneath the load point is measured 5 min and 24 hours after the end of exposure (residual load 3 N). The mean value of the residual indentations measured 24 h after the end of exposure is assessed in accordance with EN 14904 (max. 0.5 mm).

Standard tests are tough – our tests are even tougher

As if the standard tests weren't tough enough, we subjected the Manero ULTRA-LITE to additional tests with a pallet trolley weighing 1100kg and a forklift with a total weight of about 5900kg. Watch the video on www.tuchler.net!

Patent and trademark information

Manero ULTRA-LITE patent pending.

Manero is a registered trademark of TÜCHLER Bühnen- & Textiltechnik GmbH.

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