What Are the DIN (Deutsches Institut für Normung) Standards?

The DIN Standards were developed in Germany and are recognized worldwide as the best method for evaluating sports floors. The standards were developed to ensure that dance and aerobic athletes received the greatest degree of safety and performance from a flooring surface when participating in dance aerobic exercise. Dr. Peter Francis, a member of the Board of Advisors for IDEA and a researcher in the field of exercise safety at San Diego State University advises, "The German DIN Standards are the only known criteria for safe dance and aerobic floors."

The construction of L'AIR Suspended Floor Systems have been tested under these standards and have been found to meet or exceed them, as shown in the table below.

Certification Test Results for DIN Standard 18032 Part II

As reported by Otto Graff Institute, Stuttgart, Germany

Floor Type	Shock Absorption	Deflection Standard	Area of Deflection
DIN – Standard 18032 Part II	*Min. 53%*	*Min 2.3m*	*Max. 15%*
L'AIR Floor Suspended Systems (measured centre panel)	66.7%	3.4 mm	14.7%

Why is this important?

Shock Absorption - Insufficient shock absorption causes activity related injuries to ankle and knee joints. Correct shock absorption reduces fatigue and significantly lowers the risk of injury.

Deflection (Resilience) - Inadequate energy return in a floor causes sore ankles and a surface too "hard" for safe, strenuous activity.

Area of Deflection (Impact Isolation) Without proper impact isolation, participants' movements can interfere with each other, creating the possibility of injury.

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