

The Safety Benefits of LVT

Slip and Fall Protection for
Higher Education Environments

Milliken™



LVT SLIP & SAFETY GUIDE

When specifying Luxury Vinyl Tiles, it's important that the LVT doesn't just offer the desired aesthetic but is also engineered to meet stringent safety standards.

Slips and trips occur across all education premises, therefore safety considerations should be part of the specification process and the appropriate flooring selected for its intended environment.

Milliken's LVT complies with:

- Class 33 certification for heavy commercial use
- CE safety certifications for fire, static and slip

Our LVT collections are rigorously tested using the following methods:

- CE mark co-efficient of friction test - EN 13893
- Ramp Test - DIN 51130
- Pendulum Test - BS 7976

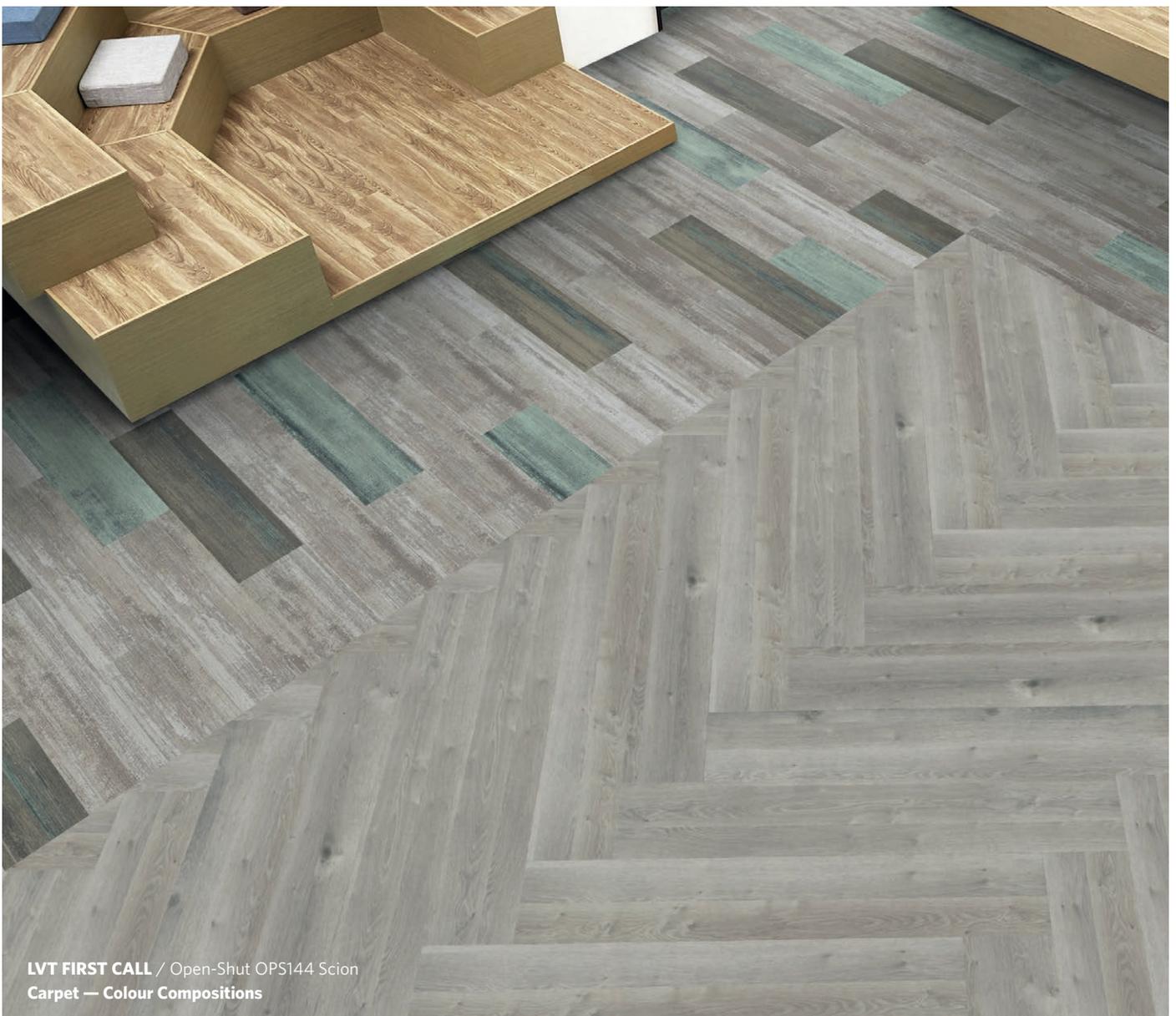
The better the slip resistance, the lower the risk of accident.



SELECTING THE CORRECT FLOORING FOR DIFFERENT EDUCATION ENVIRONMENTS

Milliken's LVT offers the best slip rating required for commercial use. Our slip resistant LVT collections are perfect for the following education environments:

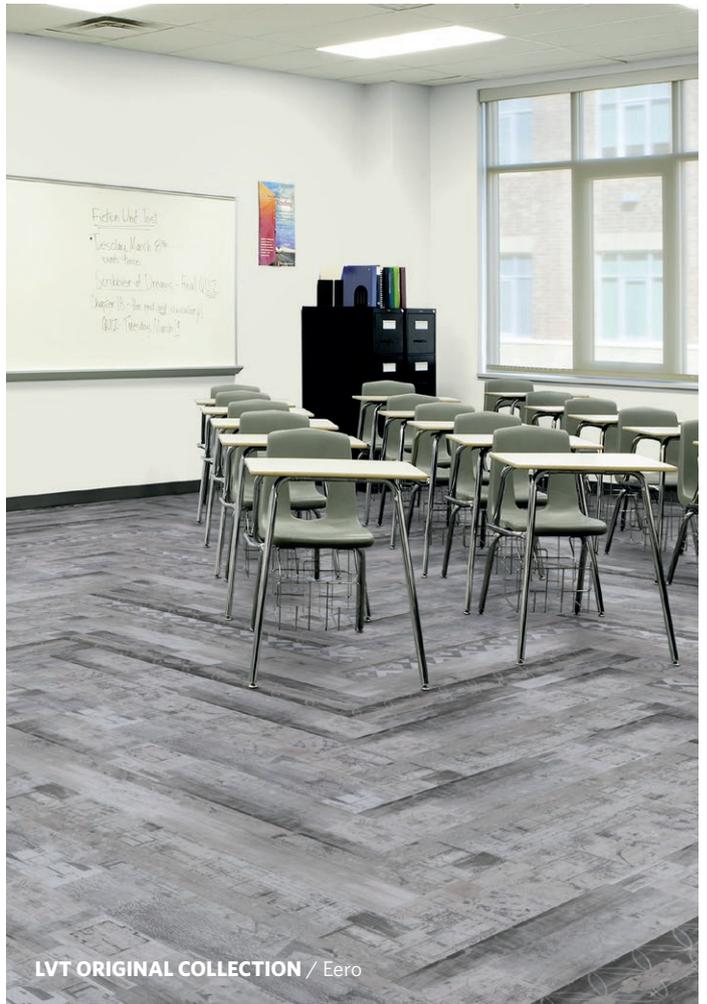
- Classrooms
- Study Areas
- Libraries
- Dining Areas
- Corridors
- Computer Labs
- Lecture Halls
- Student Accommodation



**LVT FIRST CALL / Open-Shut OPS144 Scion
Carpet — Colour Compositions**



LVT CHANGE AGENT / Rootwork



LVT ORIGINAL COLLECTION / Eero



LVT FIRST CALL / Open Shut



LVT CHANGE AGENT / Earth Science



LVT CHANGE AGENT / Conjure / Rootwork



LVT CHANGE AGENT / Conjure



LVT ORIGINAL COLLECTION / Eero

SLIP RESISTANCE – TEST METHODS

Milliken's LVT not only complies with Class 33 certification for heavy commercial use, but also meets the CE safety certifications for fire, static and slip.

Our LVT collections are rigorously tested using the following methods:

A. CE mark co-efficient of friction test - EN 13893

How does the test work?

Weighted sliders are pulled across the dry LVT horizontally at a constant speed. The result is calculated by measuring the force required to move the slider and the weight of the slider.

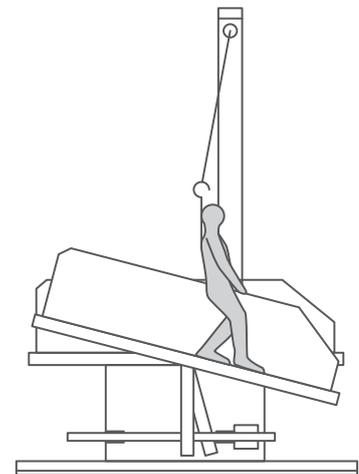


B. Ramp Test - DIN 51130

How does the test work?

Humans walk over the LVT which has been contaminated with oil or water. The flooring is tilted at ever increasing angles of inclination. Ratings are given according to the angle at which a slip occurs.

The industry required standard as a minimum is R9/R10, with <6 registering as Unclassified.



C. Pendulum Test - BS 7976

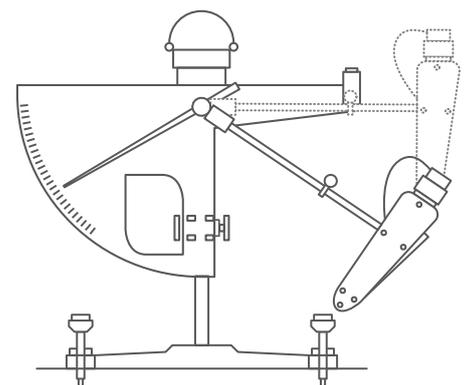
How does the test work?

A swinging arm fitted with a rubber slider is made to glide over a set distance of LVT flooring.

Pendulum Test Values (PTVs) are given according to the height lost on the overswing.

Each flooring sample is tested numerous times and in three different directions: 0°, 90° & 45°.

The flooring is tested as a dry surface and then as a wet surface, with both sets of PTVs recorded.



"The pendulum test... This is HSE's preferred method of testing":

https://www.hse.gov.uk/SLIPS/step/general/advanced/8E7F777B-3B84-49FE-A3D6-D0324E25A801/HSLCourseTemplate/28531/slidetype1_280757.htm
See also: <https://www.hse.gov.uk/pubns/geis2.pdf>

UKSRG (UK Slip Resistance Group) guidelines:

"...for unencumbered, reasonably active pedestrians aged between 18 and 60, a Pendulum Test Value (PTV) of 36 or above represents an acceptably low risk of slipping when walking in a straight line on a level surface."

SLIP RESISTANCE – MILLIKEN OFFERS

All Milliken LVT products have **DS** class for CE mark, **R10** class for ramp test as a minimum, and **low (≥36) to moderate (≥25)** ratings for wet pendulum test.

Format	Collection	Design	CE Mark	Ramp test	BS 7976 Pendulum test	
			EN 13893	DIN 51130	Dry	Wet
Loose Lay	Original Collection	Eero	DS - Does not slip	R10	55	40
		Heritage Wood	DS - Does not slip	R10	64	41
		Kokutan 5.0	DS - Does not slip	R10	63	39
		Power Grid	DS - Does not slip	R10	51	28
		Polished Concrete	DS - Does not slip	R10	57	28
Flexform Sound™	First Call	On Point	DS - Does not slip	R10	59	32
		Open Shut	DS - Does not slip	R10	60	40
	Change Agent	Earth Science	DS - Does not slip	R11	60	38
		Rootwork	DS - Does not slip	R10	59	36
		Conjure	DS - Does not slip	R10	59	36

Key: probability of slip classification
BS 7976

PTV	Slip potential
0-24	High
25-35	Moderate
≥36	Low

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