

The Acoustic Benefits of FlexForm
Sound™ LVT and Modular Carpet
for Higher Education

Milliken™

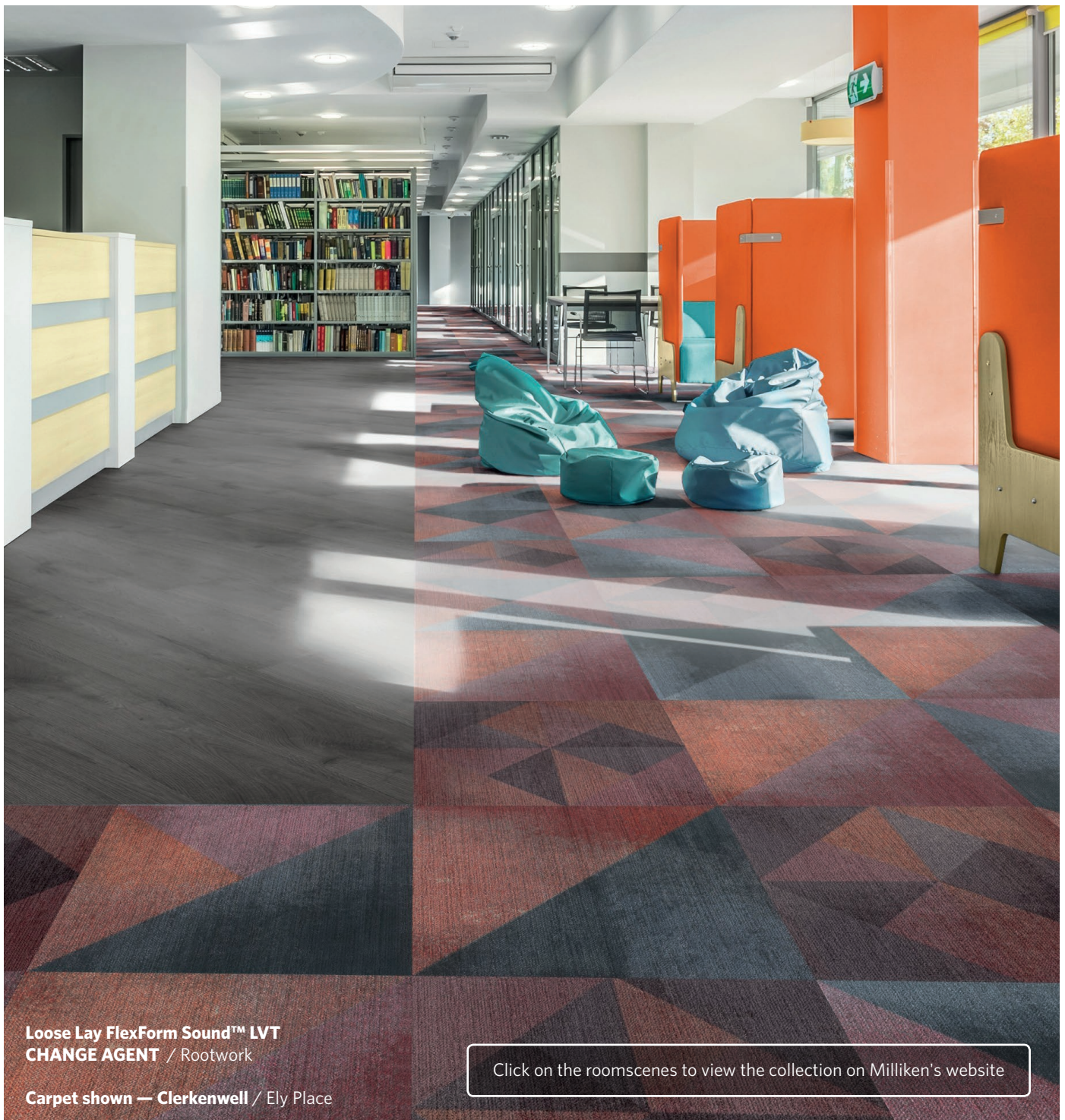


WELL-BEING AND ACOUSTICS

Quieter spaces improve learning.

Numerous studies have shown that reduced noise levels improve knowledge retention and reduce error rates among students and can even minimise vocal chord strain for teachers.

The right floor covering choice, for the appropriate area can create an environment where sound levels are more comfortable, boost concentration, memory and focus and increase morale and productivity.



Loose Lay FlexForm Sound™ LVT
CHANGE AGENT / Rootwork

Carpet shown — Clerkenwell / Ely Place

[Click on the roomscenes to view the collection on Milliken's website](#)

UNIVERSITIES & COLLEGES

WHEN PERFORMANCE MATTERS

Milliken's cushion-backed carpet can have a powerful impact on learning. By absorbing up to 60% more ambient sound than hard-backed tiles and up to twelve times more than hard surface products, our cushion backing makes it easier for students and teachers to hear, communicate and concentrate.

Milliken Cushion Backed Carpet absorbs up to

60%

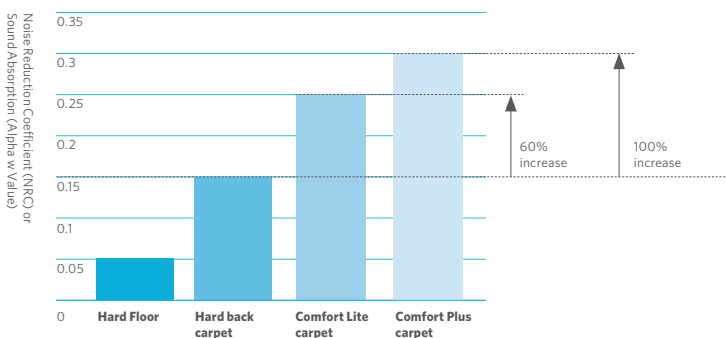
more noise than hardback

Milliken cushion backing has also been shown to reduce impact sound, for example, from foot traffic in and around classrooms, by up to 40% when compared to hardback carpet. This can help make spaces feel much calmer and less frenetic.

Well-being and Floor Covering

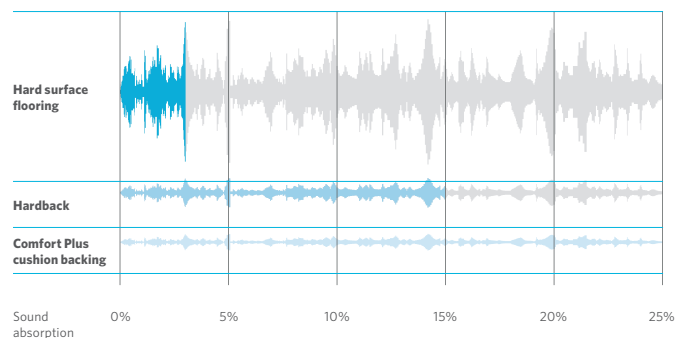
Milliken's floor coverings offer many tangible well-being benefits in terms of approved acoustics, comfort, indoor air quality and safety, all of which enhance students' well-being.

Impact Noise Comparison



Comfort Plus® reduces impact sound (e.g. from foot traffic) by up to 40%

Sound Absorption Comparison



Milliken Cushion Backing provides:

- 24% less noise generation than hardback carpet
- 90% less noise generation than a hard surface

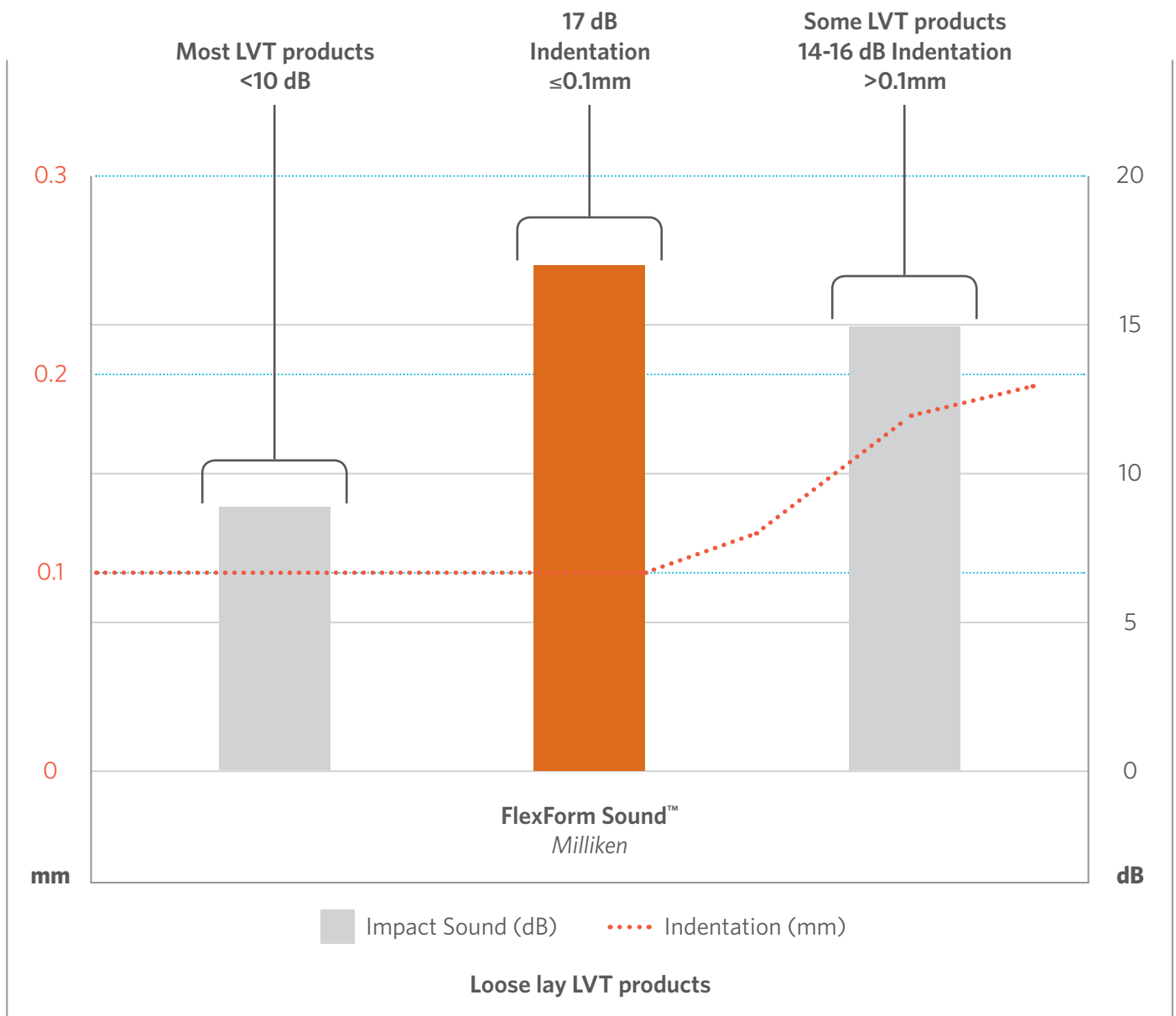


THE ACOUSTIC BENEFITS OF FLEXFORM SOUND™ LVT

For improved acoustic performance our FlexForm Sound™ construction (as featured in our First Call and Change Agent LVT collections) incorporates a compact cushion layer to reduce impact sound. This innovative layer can **reduce impact sound by up to 17dB** (this compares to as little as 2dB for Standard Glue Down LVTs and typically 4-9dB for Loose Lay LVTs without cushion layer).

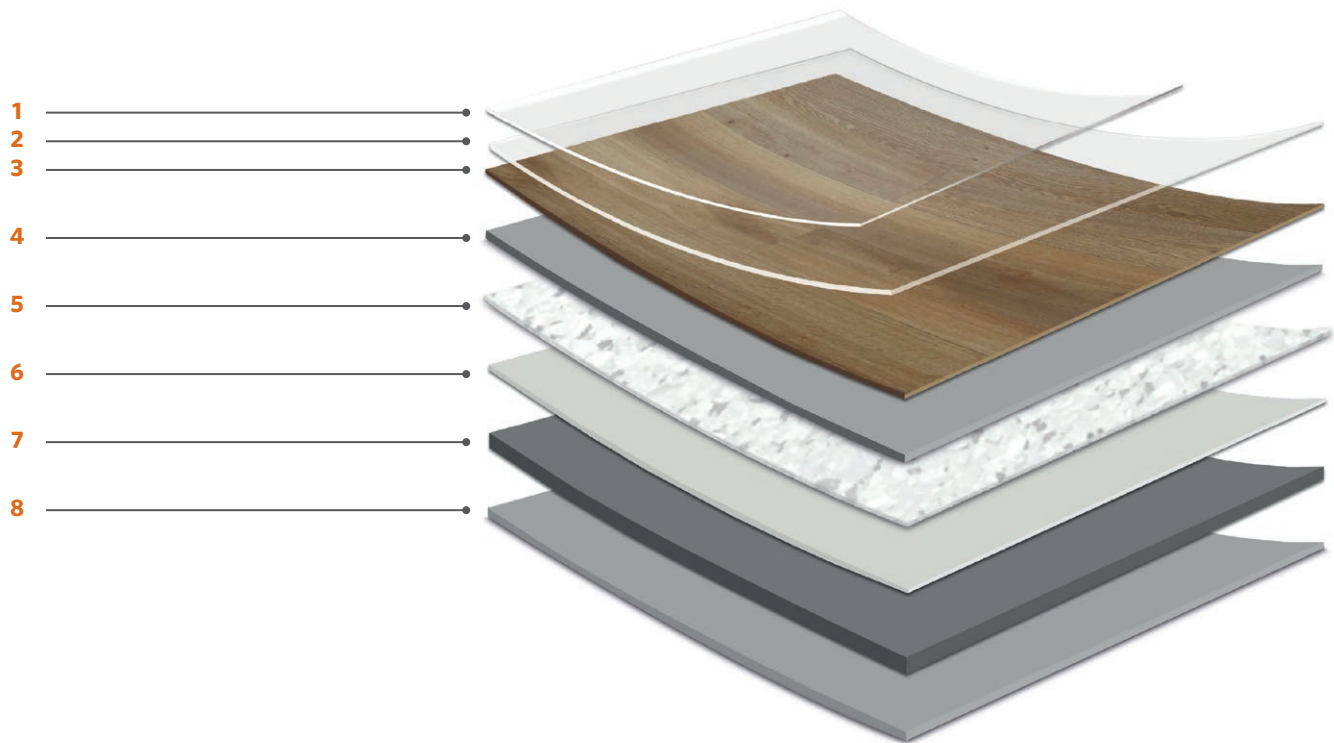
FlexForm Sound™ LVT provides an improved impact acoustic sound performance (≥17db) while not sacrificing its indentation performance (<0.1mm).

Minimising indentation is another key consideration for maintaining the long term appearance of your flooring installation, as furniture may be reconfigured multiple times, with changing office needs.





LOOSE LAY FLEXFORM SOUND™ FORMAT

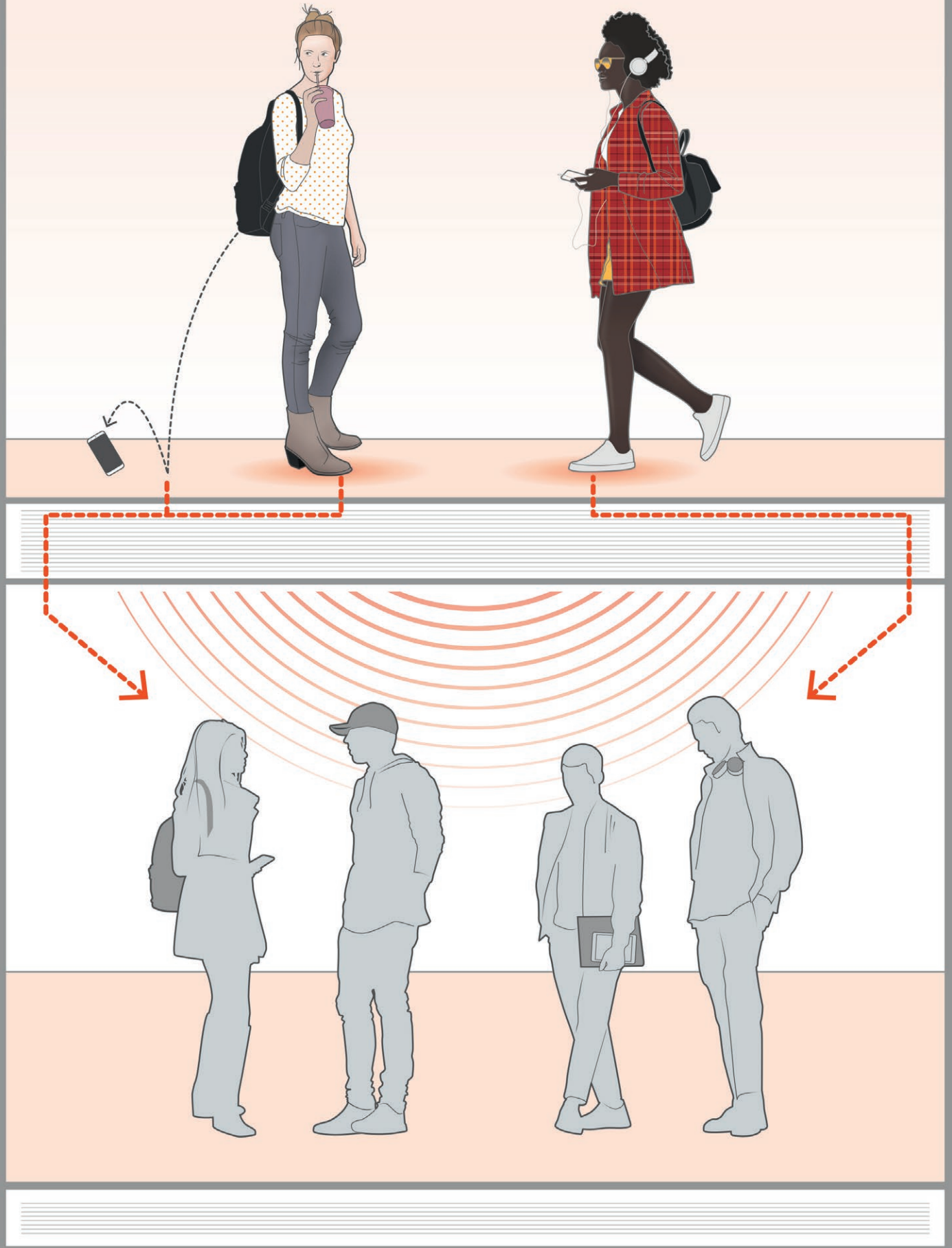


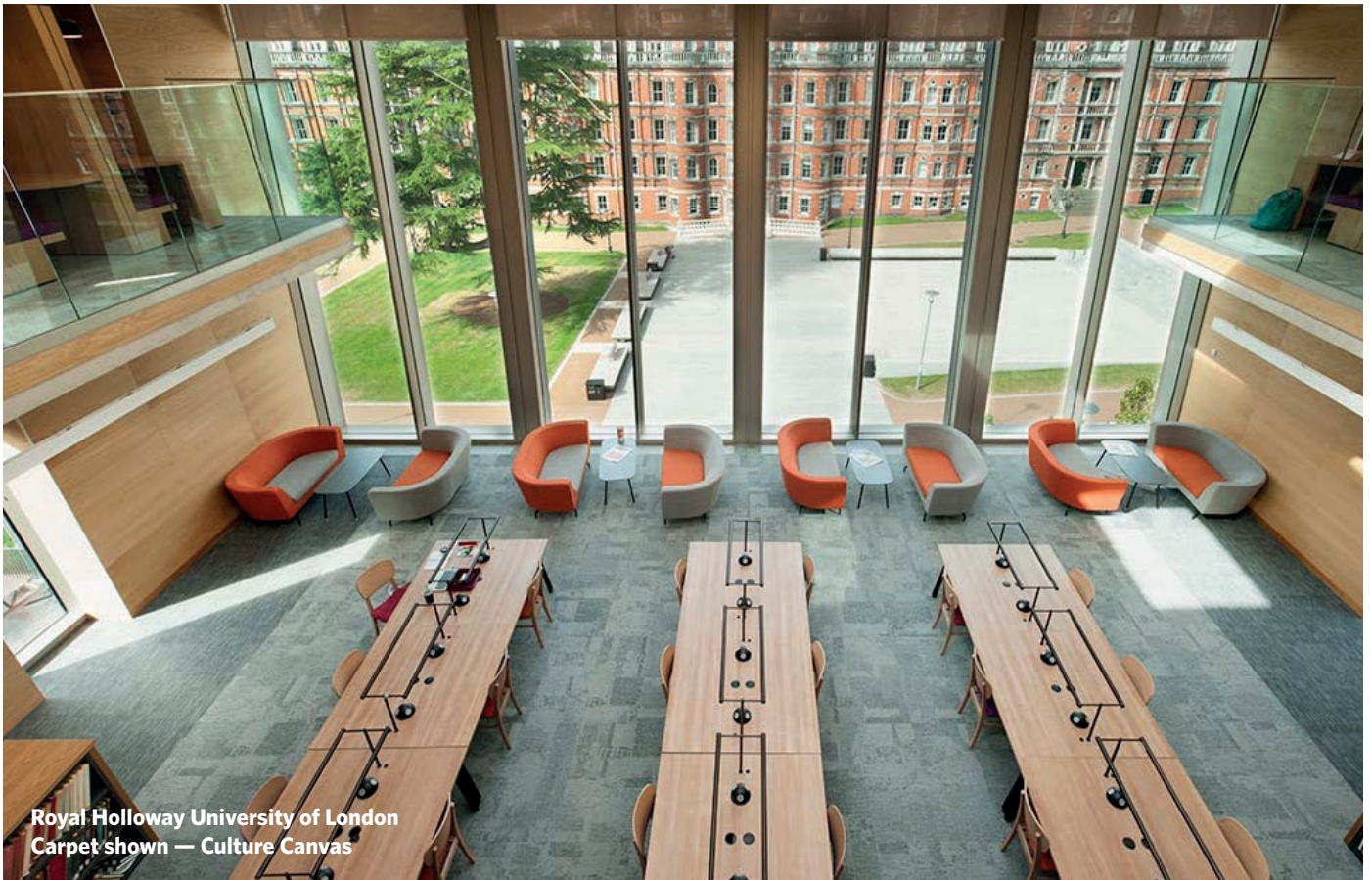
- 1 ProGuard MAX™ - Urethane Coating**
Provides excellent stain and abrasion resistance, eliminates the need for wax, polishes and harsh chemicals—reduced maintenance costs and improved IAQ.
- 2 Transparent wear layer**
0.55mm **embossed**, hard-wearing layer, provides long lasting appearance retention in heavy commercial traffic environments. Embossed for authentic appearance and increased levels of slip performance.
- 3 Printed layer**
This layer utilises high definition print film for stunning, eye-perfect, authentic visuals.
- 4 Core layer**
High performance, non rigid layer, that provides extra stability and durability.
- 5 FlexForm™ Sound Compact Cushion Layer**
Provides enhanced acoustic properties, reducing impact sound by 17dB.
Located centrally for maximum protection, indentation resistance and dimensional stability.
- 6 Glass fibre layer**
Minimises expansion and contraction under extreme temperatures.
- 7 Backing layer**
High vinyl content backing layer provides robust foundation and impact resistance.
- 8 Non-skid backing**
Allows adhesive free installation and replacement.**

* The diagram relates to Milliken's Change Agent and First Call LVT collections.

** See installation guide for full recommendations.

In a college or university with multiple floors, installing a floor covering that reduces impact sound, can dramatically reduce the intensity of sound on the floor below from both impact noise (eg walking) and background noise (eg telephones or conversations.)





Royal Holloway University of London
Carpet shown — Culture Canvas

To transform, enhance and increase the well-being and acoustic performance in any education environment, view our entire floor covering portfolio [here](#)



London School of Economics and Political Science
Carpet shown — Colour Compositions



Kings College London, Bush House
Carpet shown — Custom Design

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