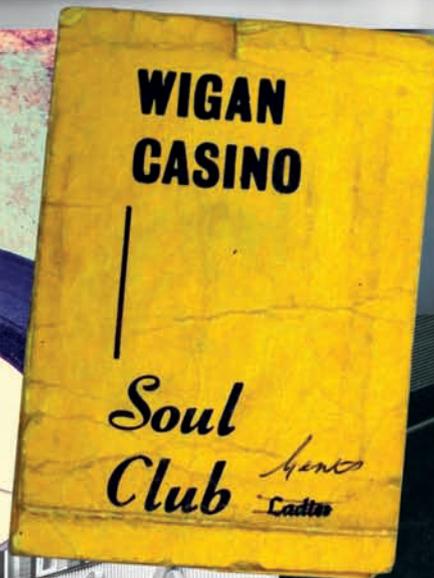


NORTHERN SOUL

Engineered for
Acoustic Excellence

Milliken™



SSSSHHH.... OUR PRODUCTS ABSORB **SOUND** SO YOU CAN HEAR YOURSELF THINK

Unwanted noise in the workplace is a significant contributor to stress, fatigue, illness and absenteeism.

Sound is one of the 10 Concepts in the WELL Building Standard (WELL v2). A study by Cornell University* indicated that workers in open-office environments exhibited increased levels of stress hormones, which made it more likely for them to become less motivated and less creative. In fact, data shows that productivity can go down by as much as 66%**.

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.



NORTHERN SOUL / Strobe Light
STL213-250 Spin
NORTHERN SOUL / Floor Filler
FFR250-144 Spin

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

* Evans, G.W. & Johnson, D. (2000). Stress and open-office noise. *Journal of Psychology*, 85 (5), 779-783
** The 4 ways sound affects us, Julian Treasure, Talk at TEDGlobal 2009, July 2009

WHEN PERFORMANCE MATTERS

Milliken's cushion-backed carpet can have a powerful impact on productivity. 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 everyone to hear, communicate and concentrate.

Milliken Cushion Backing 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 workspaces, 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 everyone's well-being.



NORTHERN SOUL / Floor Filler

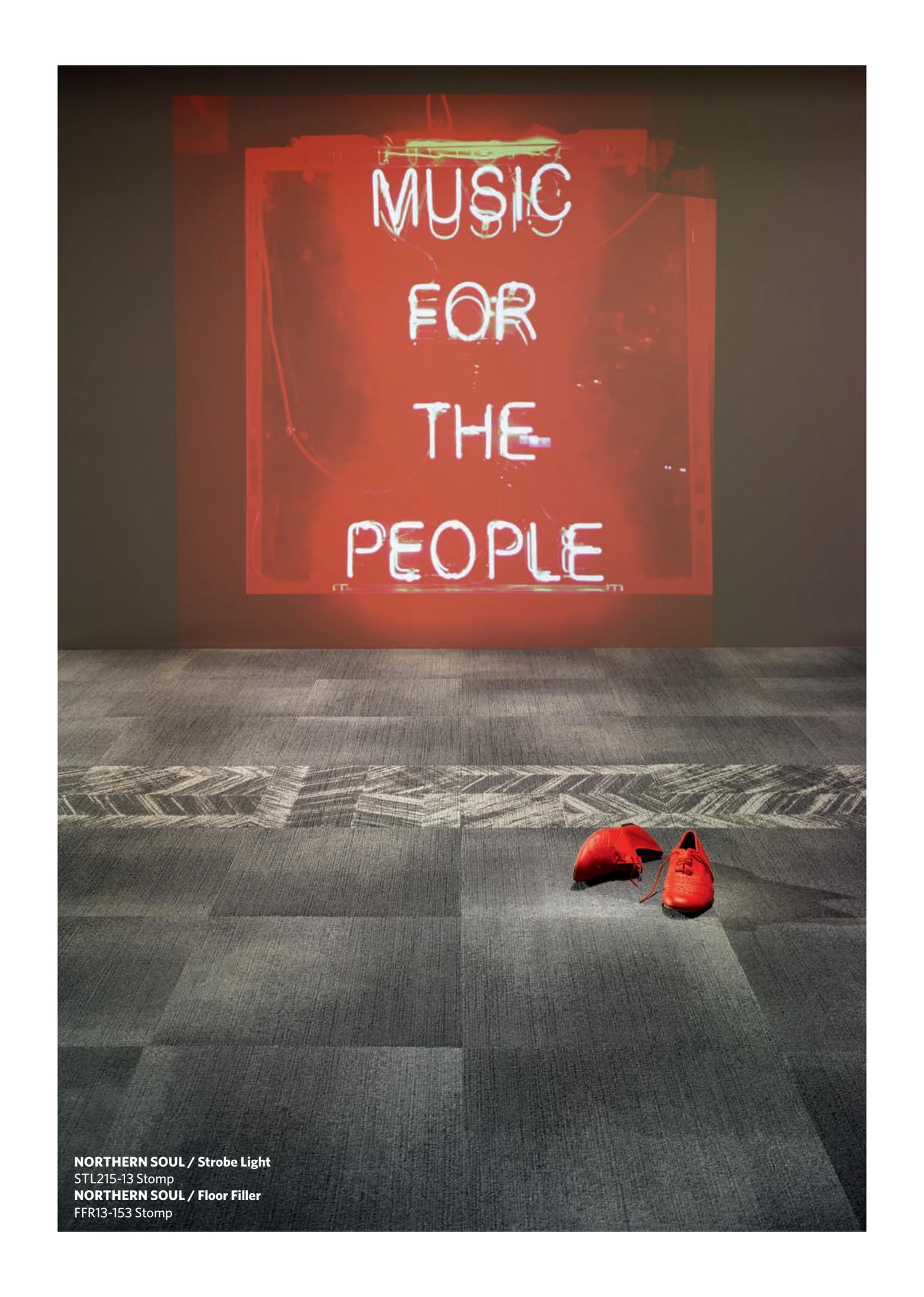
FFR13-153 Stomp

FFR51-201 Club

FFR259-21 Weekend

FFR215-153 Float

FFR164-102 Backdrop

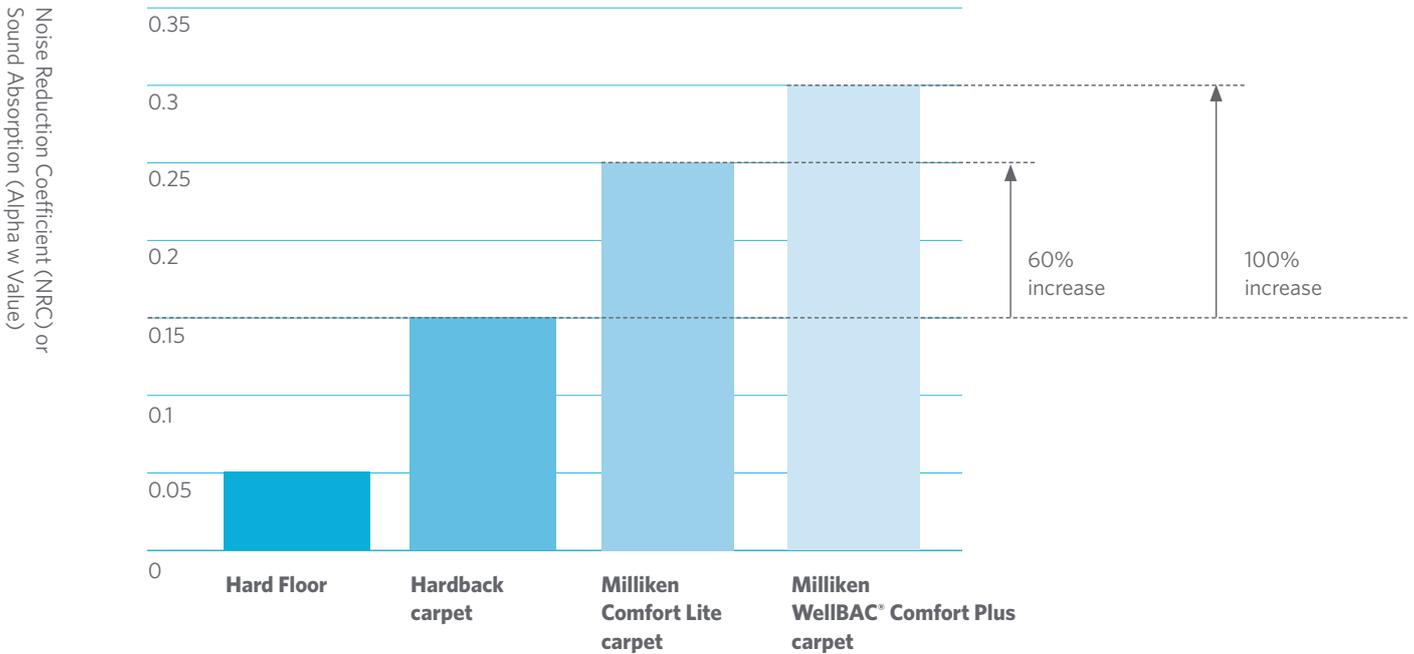
A photograph of a stage. A large red light projection is cast onto a wall, displaying the text "MUSIC FOR THE PEOPLE" in a white, stylized, hand-drawn font. The text is arranged in four lines: "MUSIC", "FOR", "THE", and "PEOPLE". Below the text, a pair of red leather shoes is placed on a dark grey carpet with a light-colored herringbone pattern. The shoes are positioned in the lower right foreground, illuminated by a spotlight. The overall scene is dimly lit, with the red light being the primary source of illumination.

MUSIC
FOR
THE
PEOPLE

NORTHERN SOUL / Strobe Light
STL215-13 Stomp
NORTHERN SOUL / Floor Filler
FFR13-153 Stomp

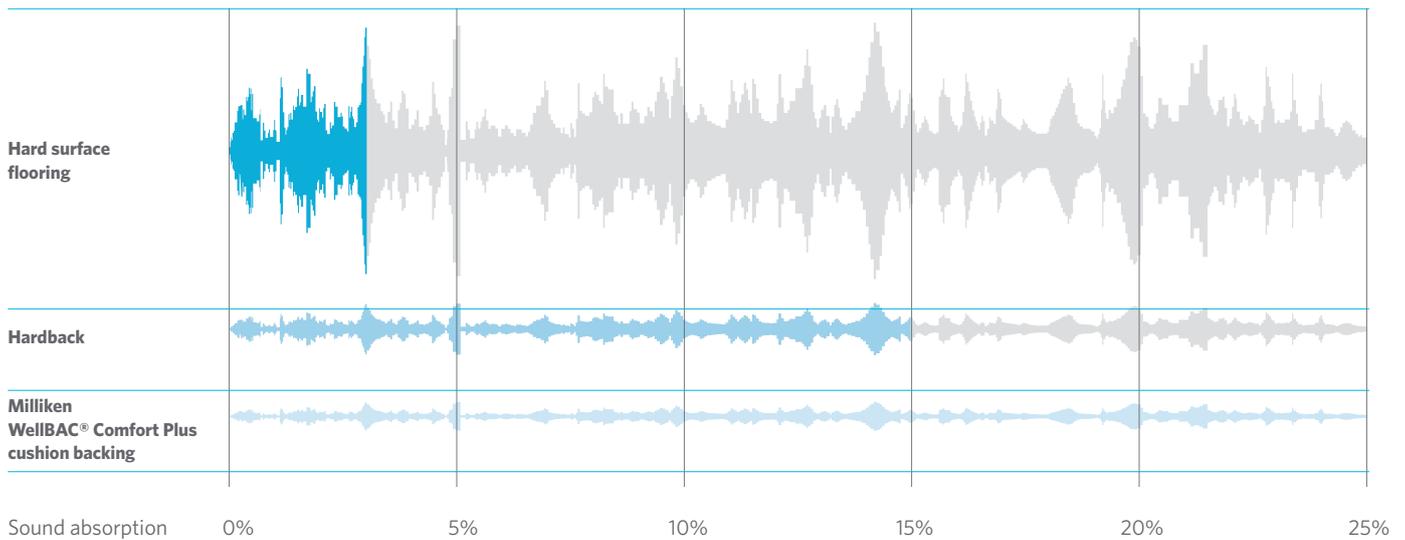
MAKE A **SOUND** CHOICE WITH MILLIKEN

Impact Noise Comparison



WellBAC® 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**

Acoustic Values

NORTHERN SOUL / Floor Filler / Night Flyer / Soundtrack / Strobe Light



Sound Absorption (ISO 354)

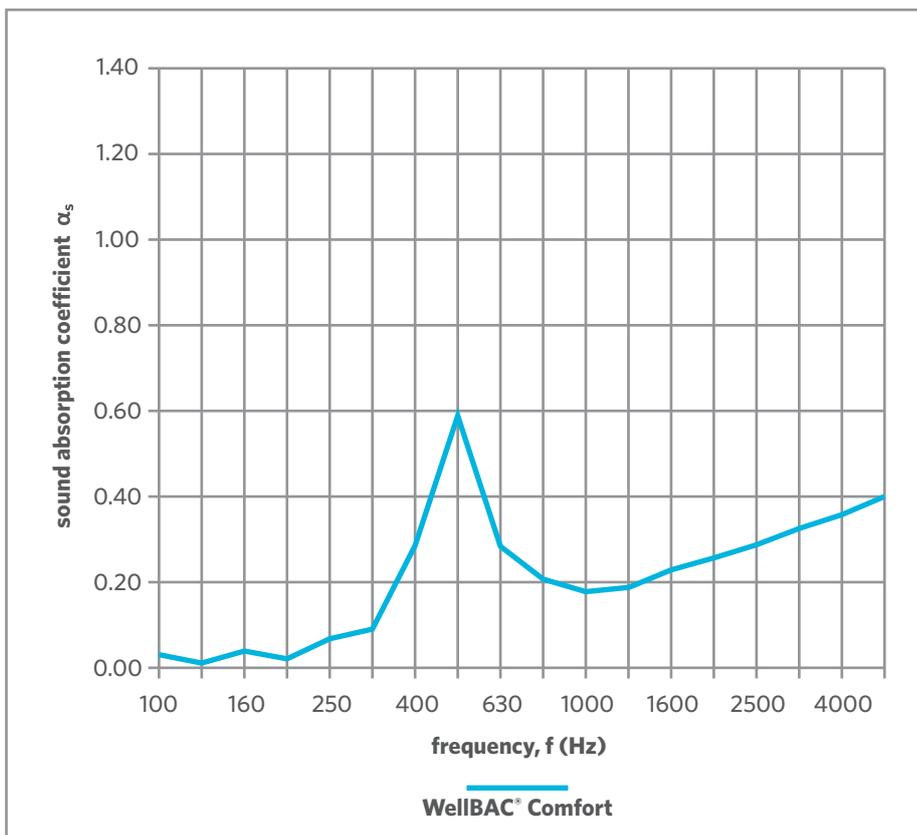
Impact Sound (ISO 140-8 / ISO 10140-3)

Northern Soul WellBAC® Comfort
 α_w 0.25 Class E

Northern Soul WellBAC® Comfort
 ΔL_w 31dB

Sound absorption coefficient α_s

FREQUENCY (Hz)	WellBAC® Comfort α_s
100	0.03
125	0.01
160	0.04
200	0.02
250	0.07
315	0.09
400	0.28
500	0.59
630	0.29
800	0.21
1000	0.18
1250	0.19
1600	0.23
2000	0.26
2500	0.29
3150	0.33
4000	0.36
5000	0.40



α_{pi} values (WellBAC® Comfort)

125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
0.05	0.05	0.40	0.20	0.25	0.35

α_w Class

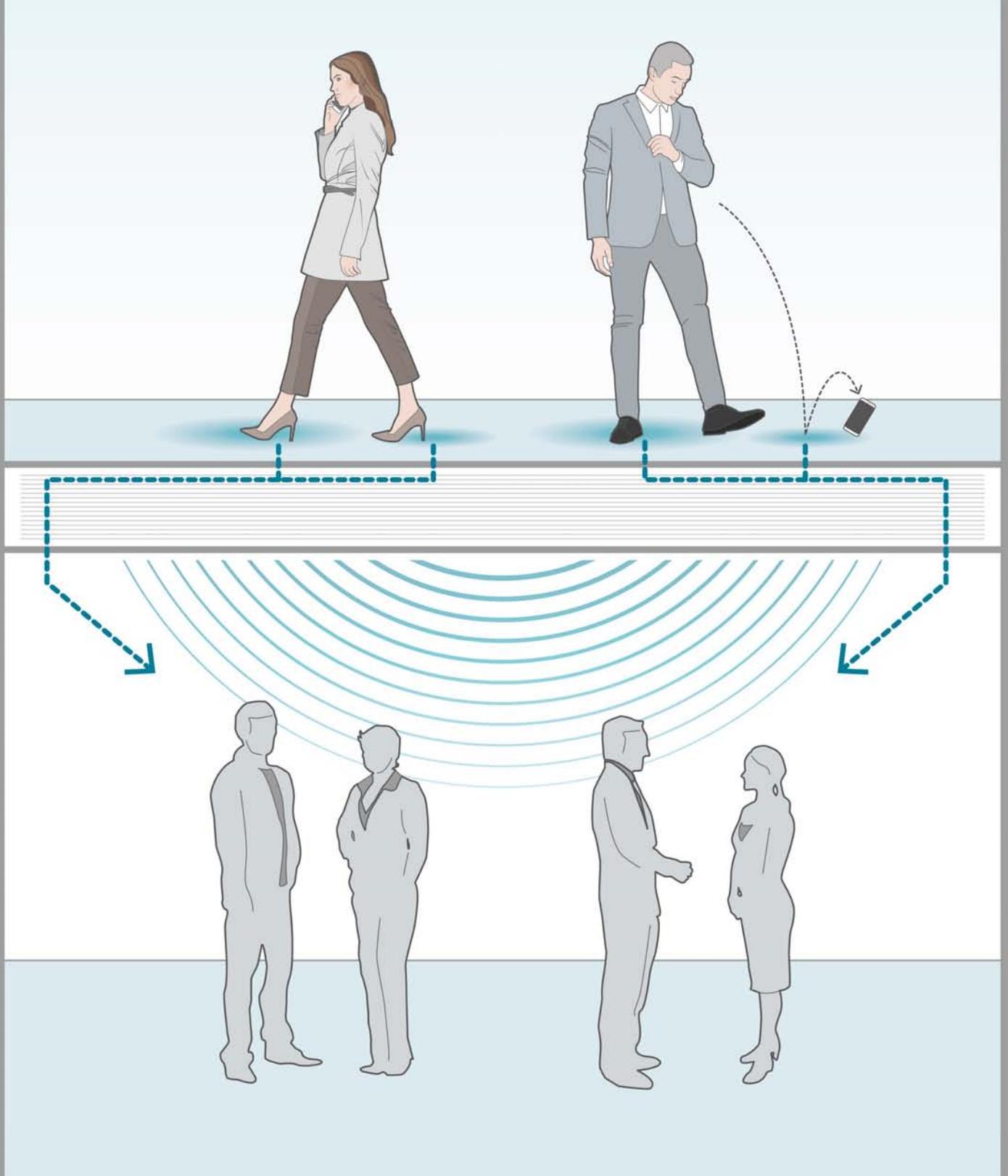
α_w (overall value)	Class
0.25	E



NORTHERN SOUL / Soundtrack Bright
STR21-133-102

SOUND TRAVELS

In a building 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.)



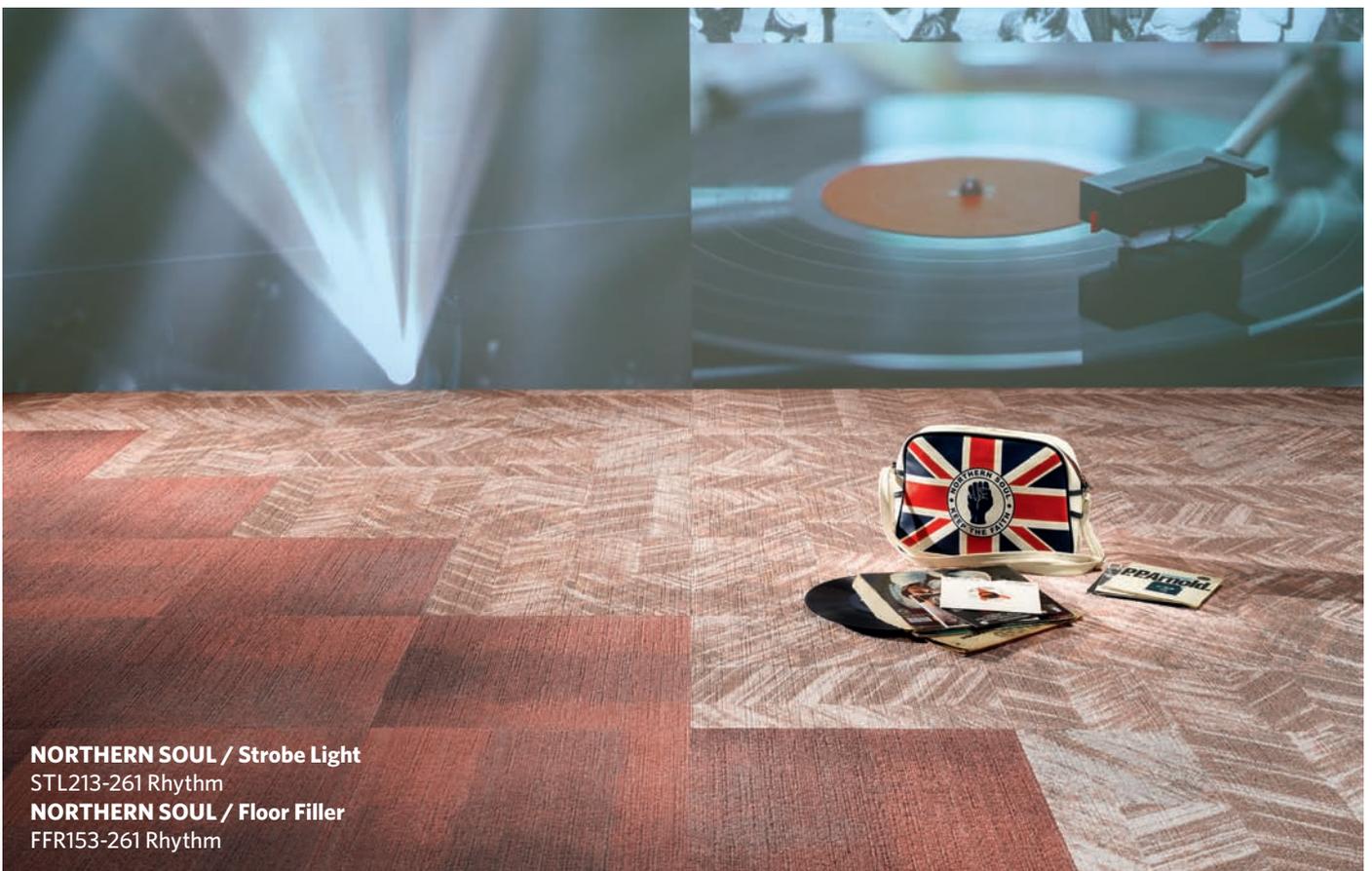


NORTHERN SOUL / Strobe Light
STL215-13 Stomp



NORTHERN SOUL / Night Flyer Bright
NTF102-144-201

To transform, enhance and increase the well-being and acoustic performance in your interior space, view our entire Northern Soul collection [here](#)



NORTHERN SOUL / Strobe Light
STL213-261 Rhythm
NORTHERN SOUL / Floor Filler
FFR153-261 Rhythm

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Milliken™