LUXCUSHION Tuntex

Nore Than Comfort

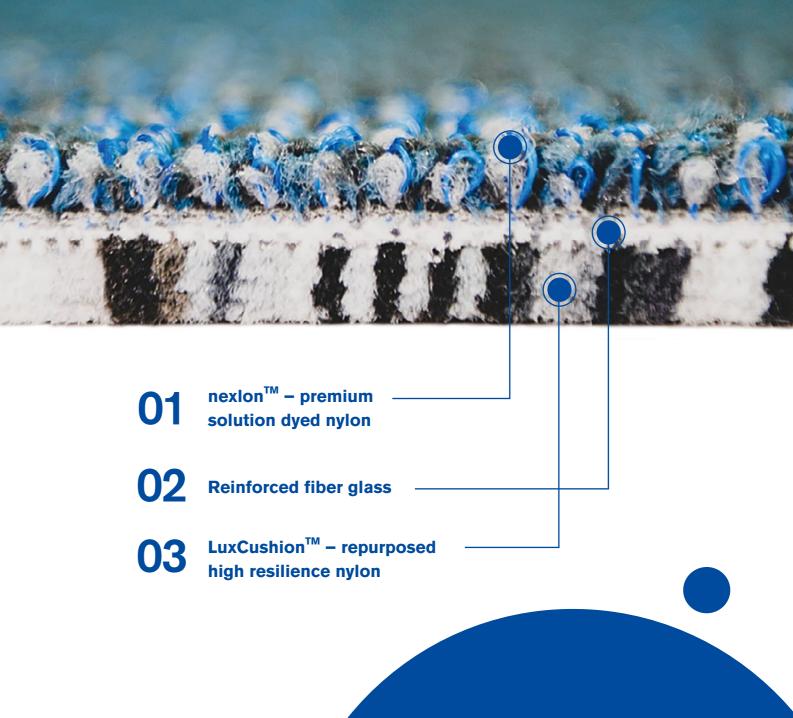
LUXCUSHION[™]

Aims to Create a Delightful Living Environment with Ensured Comfort and Wellbeing.

For over 50 years, creating a more sustainable and healthier living environment has been Tuntext's ultimate goal. The innovation of LuxCushion[™] takes one step further to achieve that goal. It's a revolutionary technology that is completely different from typical backing systems, a cutting-edge invention to redefine comfort and softness of carpet.



Revolutionary New Backing System



Patent Pending Technology Unique Sandwich Design

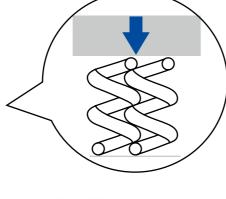
Chinese Patent No.: ZL 202020360039.5 United States Patent No.: US 11.668.046B2

Creative Backing Structure

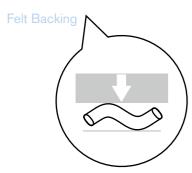
Different from typical backing systems, LuxCushion[™] repurposes high resilience nylon that is a byproduct from yarn wasted during carpet manufacturing process. Compared to typical felt or foam backing, LuxCushion[™] shows a superior resilience performance thanks to its unique 3D structure. Tufted like "springs", LuxCushion[™] provides better underfoot comfort for indoor environment.

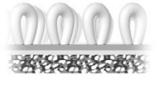


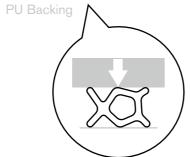
LUXCUSHION[™]

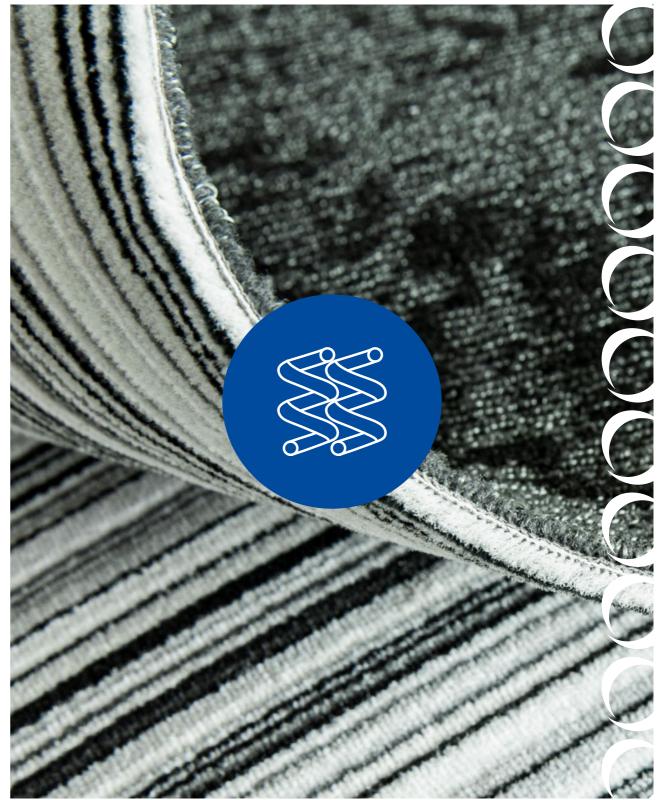












DESIGN FOR COMFORT



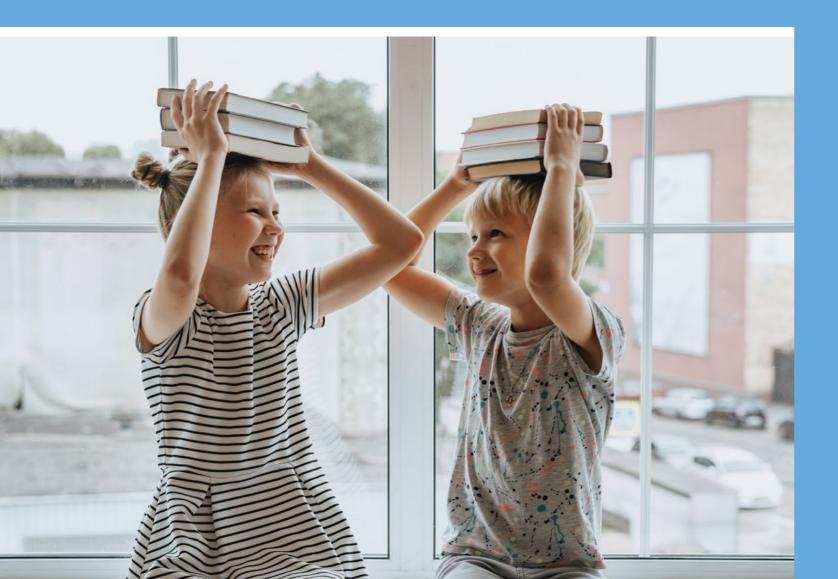
Sustainable and safe materials, **Deodorizing technologies protect** the indoor environment





30.2%

Comfort is one of the most important aspects of architectural design, and also the reason to introduce LuxCushion[™]. The development of LuxCushion[™] is a revolutionary upgrade to carpet backing systems, taking performance and comfort experience to the next level.



19.8%

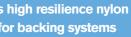


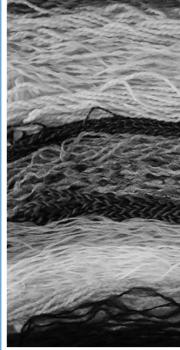
Improve **Underfoot Comfort**



LuxCushion[™] repurposes high resilience nylon as the major material for backing systems

The yarns are arranged spirally and vertically, showing outstanding strengths of support and resilience. It brings unprecedented underfoot experience in terms of improving softness and relieving foot fatigue. Also, more security is provided to reduce the risk of falls and injury. It can be applied







More Softness, Better Comfort

Tuntex Lab has performed load testing on different backings. Results show a positive correlation between the thickness of backings and softness. The backing of LuxCushion[™] is softer than felt backing and the softness increased by three times.

LUXCUSHION™





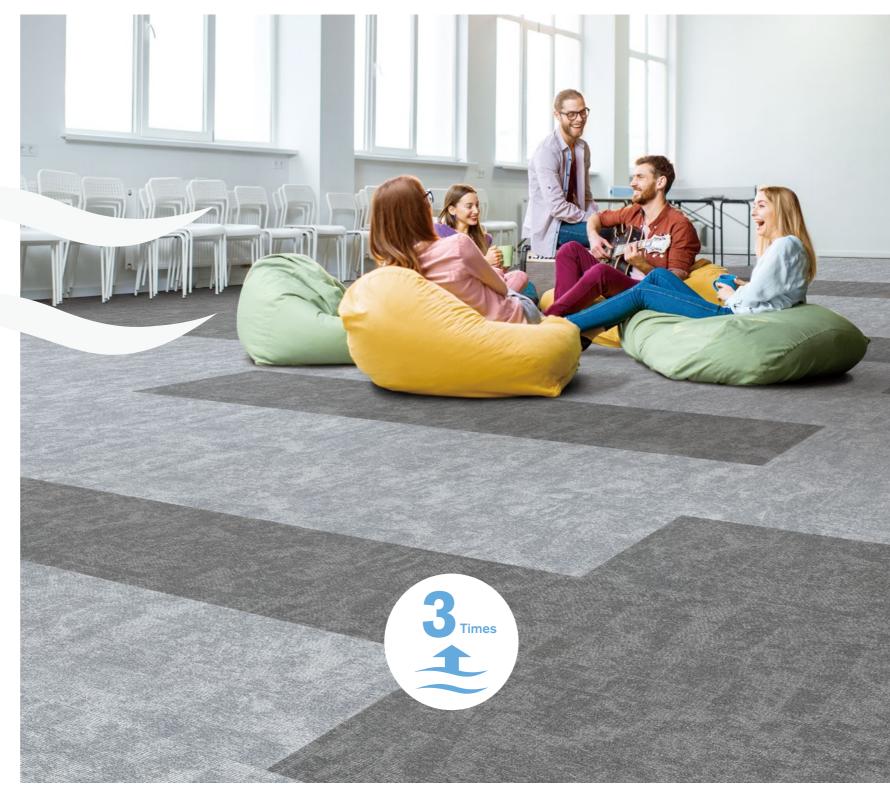
before





Felt Backing





Significantly Reduces Foot Fatigue

With greatly elevated softness, LuxCushion[™] gives not only sound underfoot comfort but also better foot support. Both can effectively work with relieving the soreness and fatigue of muscles. Experiments prove that compared to typical backing systems, carpets with LuxCushion[™] improved comfort level by about 30.2% and reduced foot fatigue by about 19.8%.

academic staff are required and comfort of flooring main Tuntex cooperated with a p week field research to test and carpets with different to to give feedback after class

LUXCUSHION[™]



Comfort level improved by approximately 30.2%



Foot fatigue reduced by approximately 19.8%



ten has higher requirements on flooring materials. In particular, stand for prolonged periods. It has largely challenged the softness als

nary school in Chengxiang Town, Taicang City, and conducted twoe functionality of LuxCushion[™]. Different control groups were set kings were installed in the podium area. Staff members were invited Results showed that LuxCushion[™] performed better in terms of f muscle aches and pains.

esearch data in the article comes from Tuntex Lab. All rights reserved.

Superior Resilience to Ensure Long-lasting Comfort



A long-lasting comfort rather than a one-time disposal

Tuntex believes that improving the space comfort doesn't mean temporary feels, but a state of long-lasting experience. LuxCushion[™] is proven to have solid characteristics of resilience, flexibility, and durability. It remains soft after longterm usage, lengthening the comfortable experience.

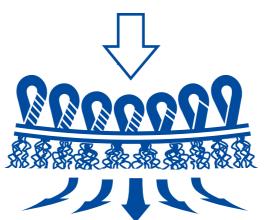


Better Resilience Than Typical Backing Systems

Tuntex Lab shows evidence that the recovery rate of LuxCushion[™] outclasses the performance of felt backing and PU backing after industry accepted Hexapod testing.



Felt Backing





Fiber glass is added to ensure excellent dimensional stability and durability

Yarn of LuxCushion[™] adopts the shape of spring. With a superior resilience performance, the carpet can recover quickly after usage.

*The research data in the article comes from Tuntex Lab. All rights reserved.

Better Acoustic Comfort



A comfortable space delivers joy and balance between physical and mental conditions

Noise plays a vital role in affecting indoor comfort, and how to reduce noise through interior design and architecture has always been the vision of Tuntex. The innovative sandwich design of LuxCushion[™] utilizes two layers of nylon fiber, achieving better noise reduction effect and acoustic comfort.



Impact Sound Insulation ΔLw

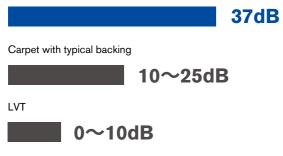


More Than Comfort

Impact sound insulation refers to the ability to prevent the transmission of impact noise, such as footsteps, dragging furniture and falling objects between floors or rooms.

LuxCushion[™] tests a reduction of transmitted impact noise by 37dB according to ISO 10140, which is 5 times better than LVT, and an increase of 50% compared to typical backing.

LUXCUSHION[™] Carpet with LuxCushion[™]



Hard Flooring (Wood, Concrete, etc)



Note: Impact sound insulation of other flooring coverings is a reference value and will vary depending on products.



- .
- Sound absorption refers to aw and use a weighted sound absorption coefficient from 0 to 1 to measure performance



Sound Absorption QW



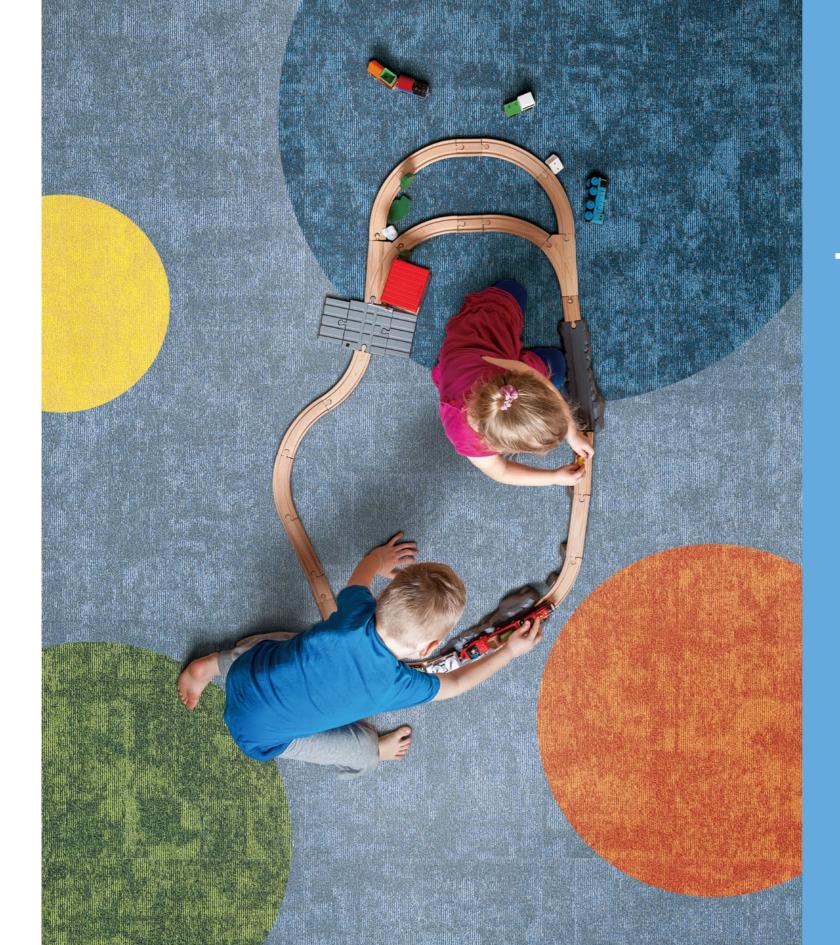
Sound absorption indicates the capacity to absorb sound energy in the air. Absorption can lessen other unpleasant background noise within the room, for example echo. According to EN ISO 354, LuxCushion™ tests an impressive sound absorption coefficient of 0.40.

0~0.05 Hard Flooring (Wood, Con]	0.15~0.2 Carpet with type
0.00	0.10	0.20
	LVT 0~().10

.20

bical backing





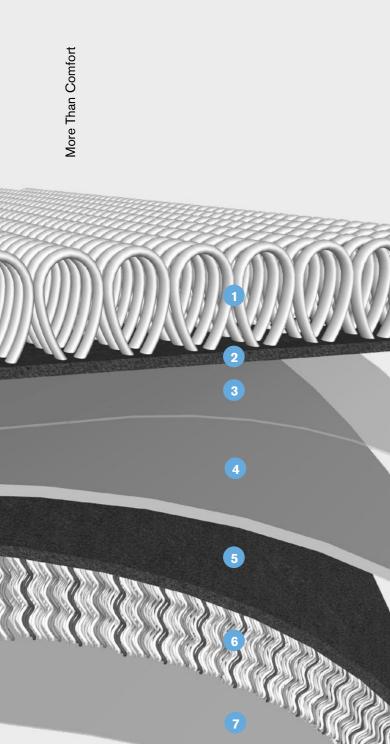
Safe Materials and Special **Treatments Improve Indoor Comfort**

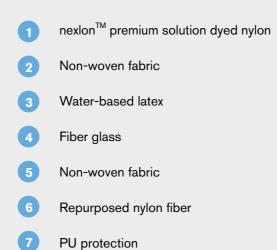


People and indoor space interact with each other

Indoor pollutants contribute to health risks. LuxCushion[™] functions to restrain the emergence and growth of these health











Mininum TVOC

LuxCushion[™]'s simplified structure requires less adhesive, and thus fewer chemical emissions of TVOC generated during manufacturing. LuxCushion[™] has passed the TVOC testing in many countries, providing safety and reliability.

Plasticizer Free

No plasticizer has been added during the manufacture. It leads LuxCushion[™] to be a safer and more environmentally-friendly choice.

Reduces Indoor Odor

EcoFresh[™] technologies use a mixture of organic and inorganic ingredients that do not contain any harmful chemical substances. Embedded in the carpet, it benefits the removal of indoor odors. The lasting deodorant effect helps refresh the indoor air.



ECOFRESH[™]





Anti-microbial

Tuntex's unique anti-bacterial and antimildew treatments can effectively reduce health threats and concerns caused by bacteria, microorganisms, and mold. It can inhibit the growth of staphylococcus and aspergillus niger to safeguard your health and living environment.

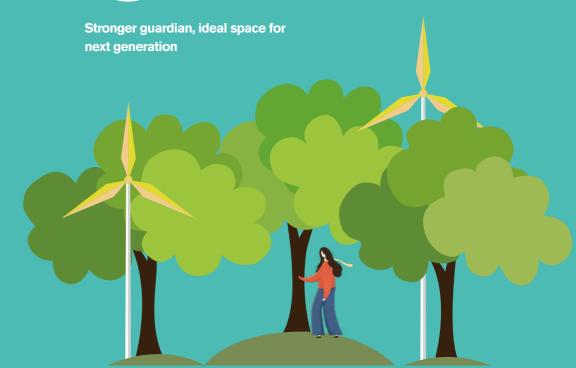


MICROSHIELD[™]

DESIGN FOR FUTURE







Design for Future

The ideal design is not only about today, but also the future. LuxCushion[™] applies the novel pending technology to education space, aiming to create a more comfortable and safer environment for the growth of the next generations.The environmental-friendly concept embedded in the design of LuxCushion[™] is more about the wellbeing of mankind. In light of energy-saving, emission reduction, extending the life cycle of carpets, recycling, and reusing, carpet can be more than itself.





Louder voice, green space for a more sustainable future

Ideal Growing Space For Next Generation



Space environment affects physical state. Similarly, the design of education space acts critically on the growth of children. LuxCushion[™] accommodates the various demand for childhood education and can provide a better growth environment for the younger generations.



Enjoy the Silence

Reduced noise to achieve a high level of concentration

Health and Vitality

Improved softness to provide better support and relieve fatigue

Extra Care with Credibility

Extra provided cushion to reduce risks caused by accidental falls

Safety and Reliability

Controlled pollution to make indoor air and the environment safer

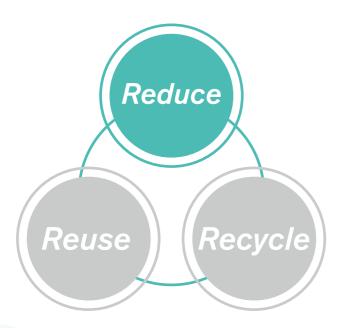


Seeking a Better Tomorrow



Tuntex has always been seeking green manufacturing through continuous innovations. The concept of sustainable development also runs through the research and development of LuxCushion[™].









Melt

By shortening manufacturing process and logistics distances, it helps to achieve an overall reduction of **water resources**, energy, and carbon emissions.

Traditional backing systems require a tedious flow path from raw plastic to finished products, which consumes a great deal of water resources and energy, and generates plenty of carbon emissions.



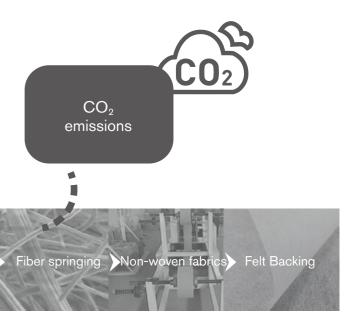


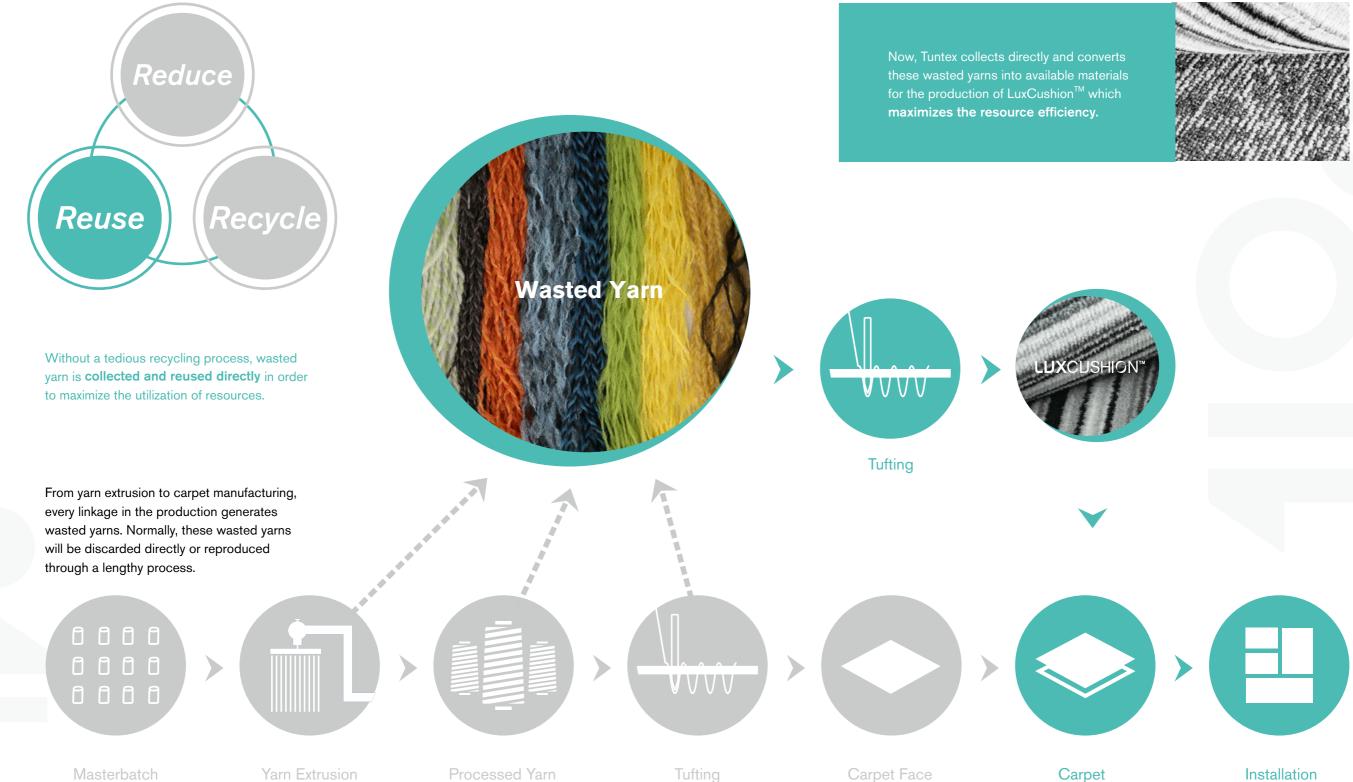
Manufacturing process of typical backing systems

Smash

Recycle plastic

LuxCushion[™] repurposes high resilience nylon that is a byproduct from yarn wasted during the carpet manufacturing process and directly reproduces into the backing in the original factory. Energy, resources and carbon emissions that were required in the past have been decreased to protect the environment.



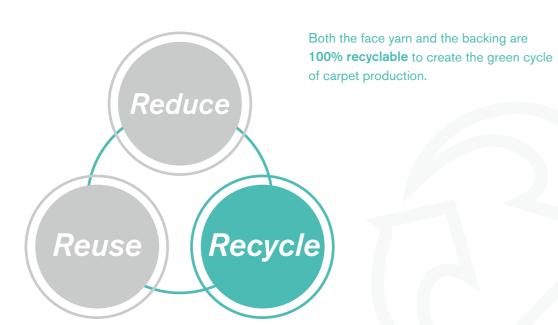




Carpet

Installation









LUXCUSHION[™]

100	

LUXCUSHION[™]

Better Flooring Solution For Indoor Space

Education

Secure the growth with eco-friendly materials



Hospitality

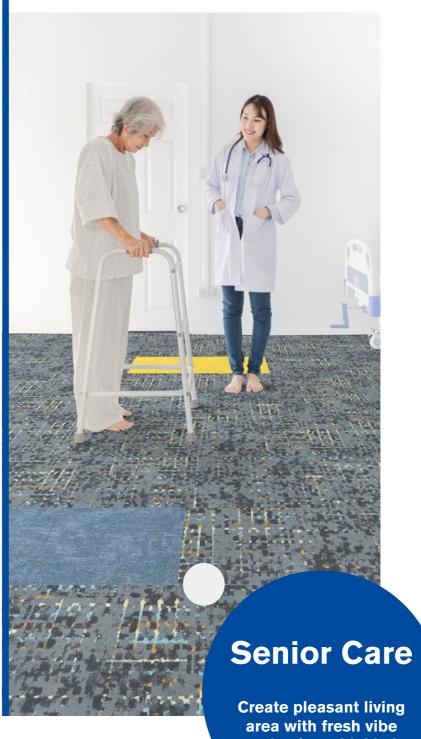
Enhance indoor aesthetics with beauty and functionality

Office

0

Delight your mood with softness and anti-noise





Create pleasant living area with fresh vibe and safety-shielded function

TUNTEX[™]

ShangHai Office

666 ShenHong Rd., ZhengRong Center, Bldg 1, 3F, ShangHai, 201106, China TEL: +86 400 663 8686 EMAIL: ShangHai@tuntexcarpet.com

Taiwan Office

No.1, ChengGong Rd., West Central Dist, Tainan City, 70050, Taiwan TEL: +852 9181 9610 EMAIL: Taiwan@tuntexcarpet.com

HongKong Office

Room 2306, Billion Trade Centre, 31 HungTo Rd., Kowloon, 852, HongKong TEL: +852 28580353 EMAIL: HongKong@tuntexcarpet.com

Japan Office

3-16-10, Yushima, Bunkyo-ku,Tokyo, 113-0034, Japan TEL: +81 3 38345148 EMAIL: Japan@tuntex-carpet.com

Singapore Office < South East Asia> No.60 Paya Lebar Rd., #10-43 Paya Lebar Square, Singapore, 409051 TEL: +65 9040 0991 EMAIL: SouthEastAsia@tuntexcarpet.com

UK Office<Europe, Middle East, Africa and India> Yoxall Lodge, Scotch Hill Rd., Newchurch, Burton on Trent, DE13 8RL, UK TEL: +44 7836 506105 EMAIL: UK@tuntexcarpet.com

Australia Office<Australia and New Zealand> 5 Coolaroo Avenue, Hurstbridge, Victoria, 3099, Australia TEL: +86 182 0622 3276 EMAIL: Australia@tuntexcarpet.com

Mexico Office < Latin America > General Salvador Alvarado 56. Col. Escandon I secc. Del. Miguel Hidalgo. CP 11800. Mexico TEL: +52 1 55 1654 0939 EMAIL: LatinAmerica@tuntexcarpet.com



Official Website