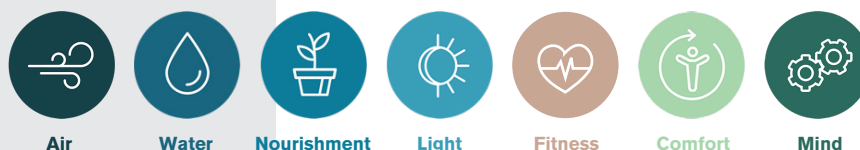


The image features a white background with decorative elements on the left. A large blue square is positioned at the top left, with a smaller blue square to its right. Below these, a vertical blue bar is present. On the far left, a vertical strip shows silhouettes of five people walking along a beach at sunset, with the sun low on the horizon creating a bright glow. The TUNTEX logo is centered in the upper half of the page.

**TUNTEX™**

**TUNTEX  
CONTRIBUTION  
TO WELL V1**

**As** humans, we have always been dependent on our environments, both indoors and outdoors. We spend increasing amounts of time in buildings we create; thus, making sure where we live, work, and eat is beneficial to our health and wellbeing is important. WELL is a leading tool created by the International WELL Building Institute™ (IWBI™) for advancing health and wellbeing in buildings globally; it explores how designs, operations, and behaviours within the places we stay in can be optimised to advance human health and comfort. WELL v1 is the original framework published in 2014 for improving buildings' impacts on health and wellbeing. It encompasses 7 different categories:



**WELL V1** operates on a points-based system for each category:

CONCEPT	PRECONDITIONS		OPTIMIZATIONS		CONCEPT SCORES
	APPLICABLE	ACHIEVED	APPLICABLE	ACHIEVED	
Air	12	12	17	3	5
Water	5	5	3	0	5
Nourishment	8	8	7	7	10
Light	4	4	7	2	6
Fitness	2	2	6	3	7
Comfort	5	5	7	2	6
Mind	5	5	12	12	10
Total	41	41	59	29	7

Low scores (0-4) comprise the compulsory Precondition features; a score less than 5 would denote failure to meet the Preconditions in that concept and thus failure for overall certification or compliance. Silver scores (5-6) mean that all compulsory Precondition features have been met in the concept. Gold scores (7-8) and Platinum scores (9-10) comprise the non-compulsory Optimizations.

## Your Wellbeing is Important To Us

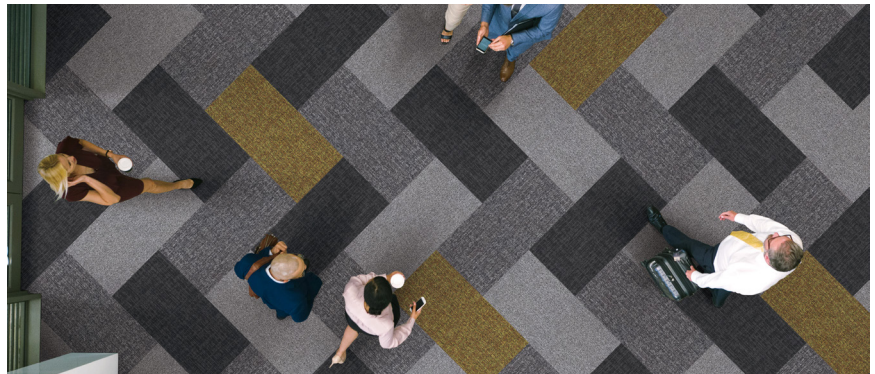
- Tuntex was founded on the mission to not only strive for innovation and quality, but to also contribute to a better environment and genuinely care about its customers. Nowadays, people spend 90% of their time indoors, so the quality of indoor flooring solutions is extremely important when it comes to human health and comfort. With this in mind, Tuntex makes sure its products can advance health and wellbeing in buildings - its vision is to deliver the best flooring solution to any business environment in terms of quality and its impact on end-users physically and mentally.

## Aiming For a Comfortable Indoor Space

- Tuntex values how its customers feel just as much as it values the quality of its products. Tuntex's advanced treatment built in the carpet allows occupants in indoor spaces to feel physically comfortable and spend quality time in clean spaces.

## Breaking Through Misconceptions About Carpets

- When thinking of indoor air quality, many people are convinced carpeted flooring has a negative impact, however it's the opposite. Tuntex understands how important its role is to educate people about the benefits of carpet, which is also why Tuntex aims to help contribute to the WELL certification scoring process by utilising fewer resources and incorporating treatments in Tuntex's products to help the carpets gain resistance against any kind of substance and organisms that might be harmful to human beings.



Credit Category	Tuntex Contribution	Potential Points
<b>[Air]</b> 04 VOC Reduction	<p><b>Part 1:</b> Tuntex adhesive passed California Department of Public Health (CDPH) Standard Method v1.1 and met all VOC emission threshold set by the program. Tuntex adhesive passed SCAQMD Rule 1168 and met all VOC emission threshold set by the program.</p> <p><b>Part 2:</b> Tuntex products hold a CRI Green Label Plus Certification and have been tested and reported according to CDPH/EHLB/Standard Method V1.2 2017[1].</p>	<b>Precondition</b>
<b>[Air]</b> 25 Toxic Material Reduction	<p><b>Part 1:</b> Tuntex products do not contain any halogenated flame retardant components.</p> <p><b>Part 2:</b> Tuntex products use only non-phthalate materials.</p>	<b>Optimization</b>
<b>[Air]</b> 27 Antimicrobial Activity for Surfaces	<p><b>Part 1:</b> Tuntex products are featured with Microshield™— an antimicrobial treatment built into our carpet to resist the growth of micro-organisms and mildew.</p>	<b>Optimization</b>
<b>[Air]</b> Cleanable Environment	<p><b>Part 1:</b> Tuntex carpet and LVT products are easy to remove and replace, as WELL standard recommends.</p>	<b>Optimization</b>

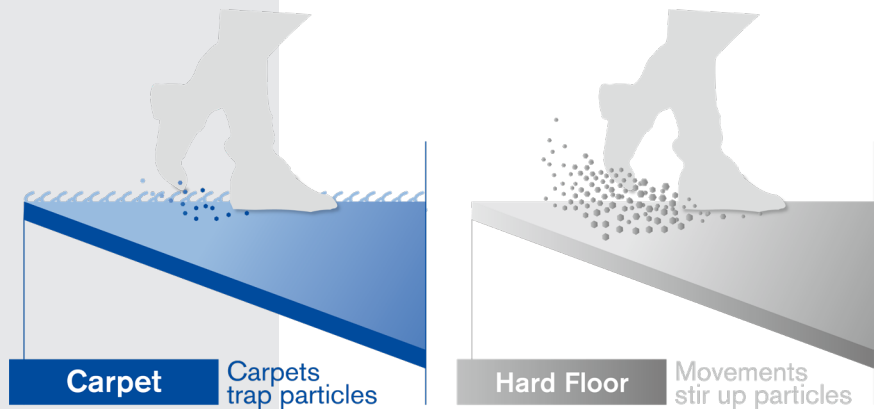
[1] Please refer to page 6 for report details

Credit Category	Tuntex Contribution	Potential Points
<b>[Mind]</b> 87 Beauty and Design	<b>Part 1:</b> Tuntex has been offering leading flooring designs for more than 50 years. Tuntex offers over a thousand combinations of textures, styling and colours, which ensure aesthetics and allow endless design possibilities.	<b>Precondition</b>
<b>[Mind]</b> 88 Biophilia I -- Qualitative	<b>Part 1:</b> Tuntex products are designed with natural elements to create a pleasant and comfortable indoor environment. With the most advanced tufting machine, ColorPoint, Tuntex is able to create any complicated design patterns to coordinate with other design aspects in the space.	<b>Precondition /Optimization</b>
<b>[Mind]</b> 97 Material Transparency	<b>Part 1:</b> Tuntex holds a third party verified Health Product Declaration (HPD).	<b>Optimization</b>
<b>[Innovation]</b> 101 Innovate Well	<b>Part 1:</b> Tuntex Ecofresh is an innovative product designed to help reduce indoor odour. It is a self-renewing technology that neutralises indoor odour by breaking down organic molecules in the air into inert materials. It helps to eliminate common smells from nicotine, ammonia, hydrogen or foods. It is a long-lasting feature embedded in Tuntex carpets that helps to keep a pleasant indoor environment and benefit occupants, both physically and mentally.	<b>Optimization</b>

# IMPROVING AIR QUALITY

## CRI Research About How Carpet Helps Trap Airborne Particles Better Than Hard Surface

- One of the biggest misconceptions about carpets is that they are the home of allergens and micro-organisms. But according to research from CRI, carpets actually have the ability to trap allergens, preventing airborne substances from floating around in the air. Floating dander, dust, and other particles are often the cause of allergic responses, so it is beneficial for people with allergies to stay in carpeted rooms, as movements on hard surfaces actually stir up particles easily. CRI conducted experiments with test walkers moving around on hard floors and carpeted floors. The results showed that the rise of particle levels in the air was much more gradual and the peak level 8 times less than that of a hard surfaced floor. Consequently, installing carpet tiles in indoor environments is highly likely a better choice than hard surface floors when considering the impacts on human health and wellbeing.





Tuntex Exclusive:

## ECOFRESH™



Odour Reducer



Safety



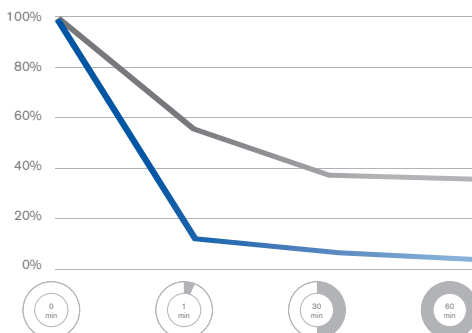
Durability

Tuntex aims for not just sustainable carpet tiles, but it also prides itself on providing its customers a comfortable indoor environment that will last for years. With Ecofresh, a self-renewal odour reducer, Tuntex's carpets help maintain fresh indoor air quality. Tuntex products have the ability to neutralise different types of odours such as smoke/ nicotine, food smell, and so on. With proper airflow conditions in the room, Ecofresh can effectively reduce smell within 15 minutes to 25 minutes, depending on how spacious the space is.



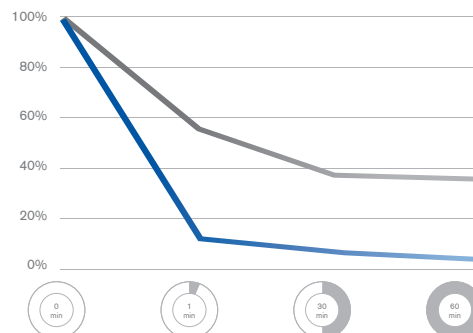
Pyridine (e.g. Nicotine)

— UNTREATED  
— ECOFRESH™



Ammonia

— UNTREATED  
— ECOFRESH™





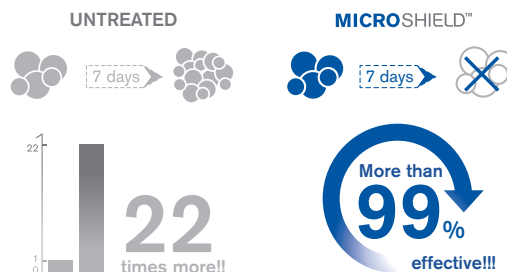
## MICROSHIELD™



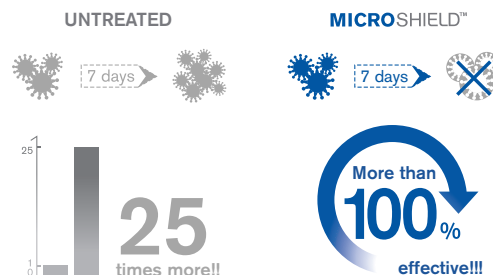
# TUNTEX™

On top of carpets' built-in ability to trap particles and allergens from floating in the air, Tuntex took an extra step to make sure its products can enhance its customers' health and wellbeing by incorporating Microshield™ in its carpets. Microshield is applied to Tuntex's carpet tiles, providing an anti-microbial function and resisting the growth of microorganisms and mildew.

**\*Staphylococcus aureus AATCC 100 Textile Tests**



**\*Aspergillus Niger AATCC 30 Textile Tests**





- Health Product Declaration (v. HPD) Third Party verified by US GreenCircle




Singapore Green Building Product Certificate -- Tuntex's adhesive has received 3 ticks from the Singapore Green Building Council, which contributes to the precondition in WELL Air – VOC Reduction.

- Singapore Green Building Product Certificate Nylon 6 4 ticks



Tuntex adhesive passed California Department of Public Health (CDPH) Standard Method v1.1 and met all VOC emission threshold set by the program, which helps contribute to WELL Air – VOC Reduction.

- **US California Department of Public Health (CDPH) Section 01350 Version 1.1 (TUV test)**


**TÜVRheinland®**  
 Precisely Right.

**Products**

**Report No.:** 0154257867a 001 Page 1 of 11

**Client:** SuZhou Tuntex Fiber & Carpet Co.,Ltd.  
No.28 ChengXi South Road,TaiCang,JiangSu,215400 China.

**Manufacturer's name:** SuZhou Tuntex Fiber & Carpet Co.,Ltd.

**Manufacturer ID:** N/A  
**Product name:** Modular Carpet Adhesive  
**Product category:** Adhesive for modular carpet installation  
**Product commercial part no.:** TX-500/TX-2000  
**Product item no.:** N/A  
**Date manufactured:** 2017-06-15  
**Date collected:** 2017-06-15  
**Date shipped:** 2017-06-15  
**Date received:** 2017-06-16  
**Sample no.:** N/A


**Conditioning period start & duration:** 2017-07-06 10days  
**Test period start & duration:** 2017-07-16 96hours

**Test specification:** Customer's requirement:  
1. CDPH/ EHLB/ Standard Method Version 1.1 – California Specification 01350

**Test result:** Please refer to page 4 – 8

**Other information:** Manufacturer's recommended coverage:10~15m<sup>2</sup>/L

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.

  
 Jet Lee / Department Manager

2017-07-27 Date Name/Position

Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

AWTA Product Testing – Evaluation of Volatile Organic Compound Emissions.  
Tuntex meets the criteria of emitting little VOC that is harmful to human beings.  
(The criterion for TVOC is <500, Tuntex's test result is 73.9)

- AWTA Product Testing – Evaluation of Volatile Organic Compound Emissions

## AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 526 214 156  
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O. Box 246, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2409

---

**Client :** Victoria Carpet Co Pty Ltd  
7-29 Gladstone Road  
Dandenong VIC 3175

**Test Number :** 15-004292  
**Issue Date :** 27/09/2015  
**Print Date :** 1/09/2015

---

**Sample Description** Clients Ref: "153612"  
Nylon carpet tile with Tuntex Duraback

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**Test Method** Carpet Institute of Australia Environmental Certification Scheme incorporating ISO 10580 "Resilient, Textile and Laminate Floor Coverings: Evaluation of Volatile Organic Compound Emissions"

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Carpet Institute of Australia Environmental Certification Scheme Data	Emission Factor Criterion (24 Hour) $\mu\text{g}/\text{m}^3/\text{h}$	Emission Factor Test Result (24 Hour) $\mu\text{g}/\text{m}^3/\text{h}$
Formaldehyde	-10	+1.3
Acetaldehyde	-20	+1.3
Vinyl Acetate	-600	+1.0
Benzene	-66	+0.8
Toluene	-260	+0.8
4-Vinylcyclohexene	-66	+0.3
Xylenes	-60	+0.3
Styrene	+410	+0.3
1-Methyl-2-Pyrrolidone	-300	+0.0
2-Ethyl-1-hexanol	-60	34.0
Octanal	-24	+1.0
Nonanal	-24	+1.0
2-Ethylhexanol	-66	+0.0
Naphthalene	-20	+0.0
Caprolactam	+120	+0.0
4-Phenylcyclohexene	-60	+0.3
Hydrocarbons (C10-C14)	-200	28.1
<b>Total Volatile Organic Compound</b>	-600	<b>73.9</b>

34130 7075
Page 1 of 2

6. Customer hereby warrants on behalf of the customer:

6.1. Samples have been taken in accordance with the testing methodology specified in the test protocol and the test results are accurate and reliable.

6.2. The customer has not used any substances or materials that are prohibited or restricted under the test protocol.

6.3. The customer has not used any substances or materials that are prohibited or restricted under the test protocol.

6.4. The customer has not used any substances or materials that are prohibited or restricted under the test protocol.

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AWTA LIMITED

APPROVED SIGNATORY

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---

**Client :** Victoria Carpet Co Pty Ltd  
7-29 Gladstone Road  
Dandenong VIC 3175

**Test Number :** 15-004292  
**Issue Date :** 27/09/2015  
**Print Date :** 1/09/2015

---

**Test specimen size** 600 x 600 mm

**Test time** 24 hrs

**Test temperature** 23 °C

**Test humidity** 60 %

**Loading factor** 0.4  $\mu\text{g}/\text{m}^2$

**Air exchange** 1 /h

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**Seal and test** Sealed with aluminium foil, and the back side of test specimen was placed on an inert glass plate to determine the emission of upper surface.

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**Remarks:**

- Formaldehyde and acetaldehyde were detected using HPLC method with ultraviolet detector, whereas other VOC's substances were detected by Gas chromatography/Mass spectrometry method.
- In this Gas chromatography/Mass spectrometry method, the scan mode of SIM was employed for caprolactam detection, and TIC for others.

Tested by AWTA-JSIC JNA Testing Co Limited - China.

34130 7075
Page 2 of 2

6. Customer hereby warrants on behalf of the customer:

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AWTA LIMITED

APPROVED SIGNATORY

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# THIRD PARTY RECOGNITION

- CRI Green Label Plus Certificate

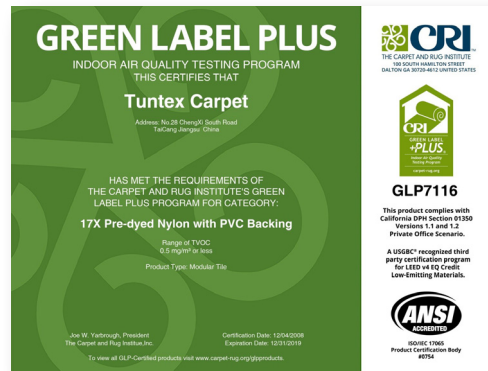
Tuntex was the first carpet manufacturer in Asia to receive U.S. CRI Green Label Plus Certificate, which contributes to WELL Air – VOC Reduction.



- Air quality – VOC test results

Tuntex carpets passed the CRI Annual Test on VOC Air Quality certified by UL, which evaluates the chemicals emitted by flooring products.

# TUNTEx™



Released by UL Environment  
Date Issued: January 8, 2016  
Product ID #: 18786-2842AA  
Test Report #: 18786-280  
©2015 UL LLC

THE CARPET & RUG INSTITUTE, INC. GREEN LABEL PLUS PROGRAM 24 HOUR ANNUAL TEST				
MEETS CRITERIA		EXCEEDS CRITERIA		
CRI Identification	20181027-JA438 17X			
Date Collected	November 13, 2018			
Date Received	November 16, 2018			
Testing Laboratory Location	UL Environment • 2211 Newmarket Parkway • Marietta GA 30067-9399 USA			
Test Date	12/17/2018 - 12/18/2018			
Product Area Exposed	one-sided area = 0.0361 m <sup>2</sup>			
Chamber Volume	0.0870 m <sup>3</sup>			
Product Loading Ratio	0.41 m <sup>2</sup> /m <sup>3</sup>			
Test Chamber Conditions	Air change rate: 1.00 ± 0.05 1/h Inlet air flow rate: 0.0870 ± 0.004 m <sup>3</sup> /h	Temperature: 22.3°C - 23.0°C Relative Humidity: 50% RH ± 5%		
Test Method	65-EN-50851 - Method For the Evaluation of Chemical Emissions From Flooring Products Using Dynamic Environmental Chambers			
Released by	Alyson M. McFry Chemistry Laboratory Director			

The temperature range specified is 20°C. The actual temperature range listed above may vary slightly. If the range is outside this specification, data was re-run to achieve a more precise impact and odor result.

UL Environment is required to comply with ISO 14644-1:2017 and ASTM Standard D 6181-17 and 7335-18 for evaluation. UL Environment's Standard Method for the Evaluation of Chemical Emissions from Flooring Products Using Environmental Chambers. Sample results are reported in the following table. All test results are presented in Tables 1, 2, 3, and 4 for the evaluation. The results are compliant as specified in the Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers.

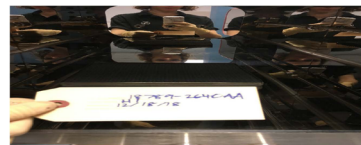
Standard Test Methodology for Determining Volatile Organic Compound and Pesticide Factors from Carpet and Associated Materials under Defined Test Conditions using Small Environmental Chambers. This Standard Method was adopted by the International Organization for Standardization (ISO) and is published in ISO 16017-2:2017.

This test is accredited under the Laboratory ISO/IEC 17027 certification issued by ANSI-ASQ National Accreditation Board. Report for volatile and odor of accreditation #A-1059-2017-0134.

The environmental chamber used is model 2211 16000L.

\*The temperature range specification is 23°C ± 1°. The actual temperature range listed above may vary slightly. If this range is outside this specification, data was reviewed to ensure a negative impact did not occur.  
Tested and reported according to CRI Green Label Plus Method v1.2 2017 and ASTM Standards D 5116-17 and D 7339-18 following UL Environment's "Standard Method for the Evaluation of Chemical Emissions from Flooring Products Using Environmental Chambers." Sample tested in accordance with the CRI Green Label Plus Program, and the results are presented in Tables 1, 2, and 3 for the evaluation for compliance as stated in The Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers.  
Standard Test Methodology for Determining Volatile Organic Compound Emission Factors from Carpet and Associated Materials under Defined Test Conditions Using Small Environmental Chambers, Based on EPA Carpet Volatile Chemical Method accepted September, 1991 and reviewed by CA-DHS.  
This test is accredited under the laboratory's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-267.  
The environmental chamber inlet air flow is 1.5 ± 0.1 l/min/minute.

#### PHOTOGRAPH OF SAMPLE



This report shall not be reproduced, except in full, without permission from UL. Results contained within this report only apply to the actual product tested under the testing conditions documented in this report.

Page 1 of 5



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Official Website



Official Wechat