ATTENTION

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MEASUREMENT OF SOUND ABSORPTION ACCORDING TO ISO 354:2003

Pictures used in this brochure are used to demonstrate how Stretch Ceilings can be utilised and may not necessarily show current products, materials or methods.
Introduction to a World Leader in Stretch Ceiling Installation

The unique Stretch Ceiling system offers a fantastic opportunity and the freedom for an added dimension in design potential. The versatile tracking system allows the acoustic material to be installed as a simplistic flat ceiling or in varying forms such as pitched, curved, vaulted, domed and circular. This distinctive system offers a palette of colours, choice of texture and has the ability to create clean and cool or loud and colourful ceiling features and lighting effects.

Acoustic Stretch Ceilings are available in an extensive range of Colours and Finishes, requires no painting or decoration, are hygienic, non toxic and come with a 12 year Guarantee. The product is also 100% recyclable.

The panel material is fire tested to the new euroclass standard B s1 d0 in accordance with EN13501.1, equivalent in the UK to a Class ‘O’ Fire rating.

About Us
A World leader in Stretch Ceiling installations, Stretch Ceilings Companies have been established for 20 years within the UK and operates Worldwide.

The Sound Absorbing Solution
This special perforated membrane is a resonance absorber – also called a micro perforated sound absorber. From a physical point of view, the micro perforations convert sound energy into heat energy although due to the perforation size, once installed they are very difficult to see. The viscous friction of air in the holes is reinforced by resonance in the volume of air trapped between the material and the rear wall or soffit which generates the impressive acoustic properties of the micro perforated sound absorbers.

Influencing factors are therefore the diameter of the holes, the distance between the holes, the thickness of the sheet and of course the volume of air behind.

- Aesthetic solution to sound absorption
- 250,000 perforations +/- per sq/m converting sound into heat energy
- Acoustic performance can be ‘tailored’ or finely tuned
- Absorption of sound can be accurately predicted
- Shaped & formed to your design in a range of colours & finishes

250,000 perforations +/- per sq/m
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Non Perforated
Characteristics: Matt White, Smooth Non Perforated

Scenario: 100mm void depth
Without Acoustic Insulation

#1 non perforated stretched ceiling, cavity 100 mm, no absorbent material

- Volume reverberation room: 214 m³
- Surface area sample: 12 m²
- Height of the construction: 0.1 m
- Measured at: laboratory conditions
- Signal: broad-band noise
- Bandwidth: 1/3 octave

\[ \alpha_w \text{ (ISO 11654)} = 0.15 \]

\[ \text{NRC (ASTM - C423)} = 0.15 \]
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM 
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Non Perforated 
Characteristics: Matt White, Smooth Non Perforated

Scenario: 100mm void depth 
60mm Cavity 
40mm Acoustic Insulation

#2 non perforated stretched ceiling, cavity 60 mm, 40 mm glasswool on the ground

volume reverberation room: 214 m³ 
surface area sample: 12 m²
heigth of the construction: 0,1 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

\[ \alpha_{w} (ISO 11654) = 0,30 (LM) \]

NRC (ASTM - C423) = 0,50
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Non Perforated
Characteristics: Matt White, Smooth Non Perforated

Scenario: 100mm void depth
40mm Acoustic Insulation
60mm Cavity

#3 non perforated stretched ceiling, 40 mm glasswool behind fabric, cavity 60 mm

volume reverberation room: 214 m³
surface area sample: 12 m²
heigth of the construction: 0,1 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

α_w (ISO 11654) = 0,25(LM)
NRC (ASTM - C423) = 0,55
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Microsorber Perforation
Characteristics: Matt White, Acoustic, 250,000 Perforations +/- per sq/m

Scenario: Microsorber Stretch Ceiling
100mm Cavity
No Acoustic Insulation

#4 perforated stretched ceiling, cavity 100 mm, no absorbent material

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<td>1k</td>
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<td>0.55</td>
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\( \alpha_w \) (ISO 11654) = 0.45
NRC (ASTM - C423) = 0.40
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Microsorber Perforated
Characteristics: Matt White, Acoustic, 250,000 Perforations +/- per sq/m

Scenario: Microsorber Stretch Ceiling
60mm Cavity
40mm Acoustic Insulation

#5 perforated stretched ceiling, cavity 60 mm, 40 mm glasswool on the ground

volume reverberation room: 214 m³
surface area sample: 12 m²
heigth of the construction: 0,1 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

\[ \alpha_w (ISO 11654) = 0,60(LM) \]
NRC (ASTM - C423) = 0,70
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Microsorber Perforation
Characteristics: Matt White, Acoustic, 250,000 Perforations +/- per sq/m

Scenario: Microsorber Stretch Ceiling
40mm Acoustic Insulation
60mm Cavity

#6 perforated stretched ceiling, 40 mm glasswool behind fabric, cavity 60 mm

volume reverberation room: 214 m³
surface area sample: 12 m²
height of the construction: 0.1 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

\( \alpha_w (ISO 11654) = 0.60 (LM) \)
NRC (ASTM - C423) = 0.75

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<td>0.37</td>
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<th>1/1 oct.</th>
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<tr>
<td>4k</td>
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MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Microsorber Perforation
Characteristics: Matt White, Acoustic, 250,000 Perforations +/- per sq/m

Scenario: Microsorber Stretch Ceiling
300mm Cavity
No Acoustic Insulation

#7 perforated stretched ceiling, cavity 300 mm, no absorbent material

volume reverberation room: 214 m³
surface area sample: 12 m²
height of the construction: 0.3 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

$\alpha_w$ (ISO 11654) = 0.45
NRC (ASTM - C423) = 0.45

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<th>1/1 oct.</th>
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<tr>
<td>4k</td>
<td>0.50</td>
<td>0.47</td>
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</table>

1/1 oct.:
| 125   | 0.30 |
| 250   | 0.43 |
| 500   | 0.32 |
| 1k    | 0.49 |
| 2k    | 0.56 |
| 4k    | 0.41 |

1/1 oct.:
| 125   | 0.20 |
| 250   | 0.40 |
| 500   | 0.36 |
| 1k    | 0.48 |
| 2k    | 0.56 |
| 4k    | 0.46 |
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM ACCORDING TO ISO 354:2003

**Stretch Material:** Matt White, Microsorber Perforation

**Characteristics:** Matt White, Acoustic, 250,000 Perforations +/- per sq/m

- #8 perforated stretched ceiling, cavity 260 mm, 40 mm glasswool on the ground

**Scenario:** Microsorber Stretch Ceiling
- 260mm Cavity
- 40mm Acoustic Insulation

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**Volume reverberation room:** 214 m$^3$

**Surface area sample:** 12 m$^2$

**Height of the construction:** 0.3 m

**Measured at:** Laboratory conditions

**Signal:** Broad-band noise

**Bandwidth:** 1/3 octave

\[\alpha_w (ISO 11654) = 0.65\]

\[NRC (ASTM - C423) = 0.70\]

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**Graph:**

- Frequency (Hz): 125, 250, 500, 1k, 2k, 4k
- Absorption Coefficient $\alpha_s$

<table>
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<tr>
<th>Frequency [Hz]</th>
<th>1/3 oct.</th>
<th>1/1 oct.</th>
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<tbody>
<tr>
<td>125</td>
<td>0.20</td>
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<td>250</td>
<td>0.27</td>
<td>0.66</td>
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<tr>
<td>500</td>
<td>0.58</td>
<td>0.66</td>
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<tr>
<td>1k</td>
<td>0.74</td>
<td>0.75</td>
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<tr>
<td>2k</td>
<td>0.75</td>
<td>0.73</td>
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<tr>
<td>4k</td>
<td>0.63</td>
<td>0.56</td>
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</tbody>
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**Diagram:**

- Adhesive tape
- Suspension system
- Stretch Ceiling Microsorber
- Enclosure of plastic covered chipboard
- Glasswool 40 mm
- Floor of the reverberation room
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Microsorber Perforation
Characteristics: Matt White, Acoustic, 250,000 Perforations +/- per sq/m

Scenario: Microsorber Stretch Ceiling
40mm Acoustic Insulation
260mm Cavity

#9 perforated stretched ceiling, 40 mm glasswool behind fabric, cavity 260 mm

volume reverberation room: 214 m$^3$
surface area sample: 12 m$^2$
heigth of the construction: 0,3 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

$\alpha_w$ (ISO 11654) = 0,75(L)
NRC (ASTM - C423) = 0,80

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<tr>
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<td>0,21 0,79 0,84 0,85 0,77 0,63</td>
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<td>0,58 0,83 0,79 0,83 0,73 0,57</td>
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MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Non Perforated
Characteristics: Matt White, Smooth, Non Perforated

Scenario: Stretch Ceiling, Non Perforated
500mm Cavity
No Acoustic Insulation

#10 non perforated stretched ceiling, cavity 500 mm, no absorbent material

 adhesive tape
suspension system
Stretch Ceiling

enclosure of plastic covered chipboard

floor of the reverberation room

volume reverberation room: 214 m$^3$
surface area sample: 12 m$^2$
height of the construction: 0,5 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

$\alpha_w$ (ISO 11654) = 0,15
NRC (ASTM - C423) = 0,15

\[
\begin{array}{cccccccc}
\text{frequency [Hz]} & 125 & 250 & 500 & 1k & 2k & 4k \\
\hline
\text{1/3 oct.} & 0.22 & 0.19 & 0.13 & 0.13 & 0.13 & 0.13 \\
\text{1/1 oct.} & 0.19 & 0.14 & 0.14 & 0.12 & 0.16 & 0.11 \\
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MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Non Perforated
Characteristics: Matt White, Smooth, Non Perforated

Scenario: Stretch Ceiling, Non Perforated
40mm Acoustic Insulation
460mm Cavity

#11 non perforated stretched ceiling, cavity 460 mm, 40 mm glasswool on the ground

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$\alpha_w$ (ISO 11654) = 0.30(L)

NRC (ASTM - C423) = 0.40
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

**Stretch Material:** Matt White, Micro Perforation  
**Characteristics:** Matt White, Acoustic, 250,000 Perforations +/- per sq/m  
#12 perforated stretched ceiling, cavity 500 mm, no absorbent material  

**Scenario:** Stretch Ceiling, Microsorber  
500mm Cavity  
No Acoustic Insulation

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**Volume Reverberation Room:** 214 m³  
**Surface Area Sample:** 12 m²  
**Height of the Construction:** 0.5 m  
**Measured at:** Laboratory Conditions  
**Signal:** Broad-band Noise  
**Bandwidth:** 1/3 Octave

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\[ \alpha_s (\text{ISO 11654}) = 0.45 \]

\[ \text{NRC (ASTM - C423)} = 0.45 \]

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<td>500</td>
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<tr>
<td>1k</td>
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<td>2k</td>
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<td>0.57</td>
</tr>
<tr>
<td>4k</td>
<td>0.52</td>
<td>0.47</td>
</tr>
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**Adhesive Tape**  
**Floor of the Reverberation Room**  
**Suspension System**  
**Enclosure of Plastic Covered Chipboard**
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003

Stretch Material: Matt White, Micro Perforation
Characteristics: Matt White, Acoustic, 250,000 Perforations +/- per sq/m

Scenario: Stretch Ceiling, Microsorber
460mm Cavity
40mm Acoustic Insulation

#13 perforated stretched ceiling, cavity 460 mm, 40 mm glasswool on the ground

adhesive tape

suspension system

Stretch Ceiling Microsorber

enclosure of plastic covered chipboard

glasswool 40 mm

floor of the reverberation room

volume reverberation room: 214 m³
surface area sample: 12 m²
heigth of the construction: 0,5 m
measured at: laboratory conditions
signal: broad-band noise
bandwidth: 1/3 octave

αw (ISO 11654) = 0,70

NRC (ASTM - C423) = 0,65

<table>
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<th>Frequency [Hz]</th>
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<th>1/1 oct.</th>
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<tr>
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<td>0.76</td>
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Sound Absorbing Solution Case Study

The Oslo Opera House

Stretch Ceilings Companies have completed a portfolio of projects internationally although we are particularly proud of our association with the Oslo Opera House.

Stretch Ceilings successfully installed over 3000 square metres of bespoke acoustic Matt White panels to aid the Architects vision of a glacier afloat in the Norwegian Sea. For this vision to be achieved almost the entire atrium structure was constructed with glass facades, white marble flooring and Matt White Stretch Ceilings.

Stretch Management were involved at the early stage of the ceiling development to ensure that functionality and performance of the suspended ceilings were afforded paramount importance. The special Stretch micro-perforated resonant type sound absorber helps improve the acoustics within any environment by reducing noise reverberation; this is due to the 250,000 perforations per square metre.

Acoustic Benefits

The materials in the atrium space needed to be carefully selected by the Architect. A high percentage of the smooth flowing walled area received the traditional Norwegian style timber cladding, with acoustic insulation behind, this coupled with the Stretch Ceiling Acoustic or Stretch MICROSORBER Acoustic perforated sheet to the entire ceiling area of the atrium foyer, restaurants and surrounds achieves an environment with an acoustic comfort second to none.

As sound passes through the 0.2mm perforated material, the friction of the air in each single hole is amplified by the resonance in the air between the micro perforated panels and the soffit or back wall. As a result of this process, substantial reductions in reverberation is achieved. In some instances, acoustic insulation behind provides an effective, additional sound absorber allowing the end acoustics to be tuned to meet varying requirements.

Micro perforations can be applied to any of our colours and finishes. The Norwegian Oslo Opera House chose a striking Matt White finish due to its excellent light reflectance properties of approximately 82%, this maximises on the natural daylight available. Due to the Stretch Ceilings flawlessly smooth finish any issues of build up of unwanted shadows of dust and dirt are greatly reduced.

The Stretch Ceiling is also water resistant, can be fabricated in one large monolithic panel up to 50m² and will not crack or flake so ongoing decoration is not required.

The material has been approved to the new European Classification of EN13501-1. Stretch Ceilings are non toxic and 100% Recyclable.
ENVIRONMENTAL POLICY

The policy of Stretch Ceilings is to commit to setting and reviewing environmental objectives for continual improvement and protection of the environment whilst minimising waste at every opportunity.

Our companies have offered a full installation service for Stretch Ceilings materials since 1988 throughout the United Kingdom, Ireland and for the Marine industry worldwide. We are now also able to offer a 12 year guarantee on all new products.

Stretch Ceilings is a quality assured business to the exacting standard of ISO 9001, all our sales staff, installers and supervisors are directly employed and certified CSCS. We are active and responsible members of SPATA – The Swimming Pool and Allied Trades Association, members of AIS – the Association of Interior Specialists and members of CHSG – Construction Health and Safety Group. We are also proud members of the UK Green Building Council.

We will comply with applicable legal requirements and with other requirements to which our organisation subscribes, points to note are:

- With a typical weight of only 0.17kg per square metre, the Stretch Ceilings material is manufactured from the smallest possible amounts of raw material, thus restricting consumption of natural resources and is guaranteed cadmium free.

- Due to the membrane being light weight; large panels (e.g. 50 sq m) of Stretch can be compressed into small recycled packages for transportation, thus optimising the negative effect on the environment of packaging waste and transportation pollution.

- Due to the panels being available in such large monolithic panels this dramatically reduces the amount of substructure or metal hanging systems required to suspend many other alternative suspended ceiling systems.

- Smoke and Toxicity tests carried out on Stretch Ceiling products by the International Maritime Organisation confirm that the material is well within acceptable limits and in accordance with their Resolution MSC 61 (67) 1996.

- All parts of the Stretch Ceilings system are 100% recyclable. If clients wish to change/replace a ceiling panel we can arrange to take back old panels and any other Stretch Ceilings components. These will then be sent to a recycling company for reprocessing and further use as carpet underlay, piping and similar PVC/aluminium based products.

- When the aluminium perimeter track or joining rails are no longer required these should be carefully demounted and returned to Stretch Ceilings for use on other projects or recycling. We rely on the environmental policies of our clients to co-operate with us in this matter.

- Stretch Ceilings are virtually maintenance free, for example it will never require painting. Cleaning may be achieved using liquids supplied by Stretch Ceilings, which is an evaporative cleaning agent soluble in water and is non flammable, contains no phosphates and is 90% biodegradable.

- Installation of Stretch Ceilings beneath existing ceilings will reduce volumes to be heated in domestic and commercial buildings, with a corresponding reduction in consumption of energy from electricity, gas, coal or oil.

- Due to the Stretch Ceiling being fully bespoke and made to measure there is very little site wastage with the installation of the product. Any off cuts can be recycled or reused as samples.

www.stretchceilings.co.uk
About Us

A World leader in Stretch Ceiling installations, Stretch Ceiling companies have been established since 1988. Based in Surrey at our 4,500 Sq. ft. factory unit, close to Heathrow airport, we offer a nationwide and worldwide sales, installation and backup service, built on our VAST EXPERIENCE and SKILLS gained with the stretch ceiling products.

Stretch offers a wealth of knowledge, history and technical innovation from design assistance to installation management, vastly experienced installers and after sales care.

Stretch Management and our Stretchologists are keen to assist from an early stage of every ceiling or unique feature. Stretch will ensure that functionality and the material performance of the Stretch panels are developed and specified in the most suitable and complimenting fashion to its surrounding environment, whilst also keeping the installation methods of paramount importance to provide a fast and clean installation service of made to measure individual and bespoke panels to any shape.

- Stretch Ceilings is a quality assured business to the exacting standard of ISO 9001
- All our sales staff, installers and supervisors are certified CSCS.
- Large DIRECTLY EMPLOYED LABOUR resources
- 12 YEAR PRODUCT GUARANTEE
- Active and responsible members of SPATA, Swimming Pool Association
- Members of AIS, the Association of Interior Specialists
- Members of CHSG Construction Health and Safety Group
- Members of UK Green Building Council

- Design Assistance
- Experienced Installers
- Independent Not Tied
- Installation Management
- Tried and Tested Product
- Stretchaid Aftercare

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