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With our new as well as existing acoustic lighting solutions we provide the key building blocks to create a well-balanced space and make employees feel at home by improving comfort, flexibility and overall happiness at work, in any setting.

- Steve Symons, Founder & Owner BuzziSpace

Sound impacts us to a great extent, mostly subconscious-ly. Therefore, its influence on us is often neglected, and this despite evidence showing how sound affects our moods, well-being and even productivity, for better or for worse. The same goes for light: Good lighting can help us perform better, prevent tiredness and headaches resulting in increased productivity and better overall well-being. Sound and light must therefore never be an afterthought.

In whatever space we’re in, we experience it with our five senses; sight, sound, touch, taste and smell. Nevertheless, most spaces are just designed for the eyes and what’s in focus is really the aesthetics. But sight is not just linked to beautiful architecture. Another crucial element of sight is light – natural light as well as the lighting sources we integrate in spaces where natural light does not suffice.

In almost any space; open, closed, lobby or meeting room, extra lighting sources are needed, but not just any kind of lighting. Therefore, crucial in any space planning is considering all relevant variables that affect illumination to find the right solution. Because light as well as sound impact us so profoundly, cognitively, behaviorally and psychologically, both should be part of the design process of a space from the very beginning.

BuzziSpace is on a mission to improve well-being among employees through human-centric design. We create happy and healthy workspaces around the world. This involves offering solutions that combine good lighting with high acoustic performance.

As a pioneer in acoustics, we serve the best noise-reducing and sound-absorbing lighting solutions in the market, catering to the needs of the the modern workplace, the hospitality and educational sector, residential areas – and beyond.

As the way we work and live evolves, both lighting and acoustics will continue to play a crucial role in transitioning to new ways of working that will not only help improve our performance and what we do, but more importantly, our overall happiness and health while we do it.
BuzziShade prevents eavesdroppers from hearing your private conversations and reduces external noise levels to a minimum. BuzziShade is a fantastic addition to any office, waiting room or restaurant, designed with large-scale settings in mind. Be creative by adding a layer of colorful fabric to the BuzziShades.

BuzziJet

Wide in diameter, this cylindrical design allows sound waves to bounce back-and-forth within the radius of its circular body, and in turn mitigates noise. BuzziJet is considerable in size, yet appears lightweight and airy thanks to its upholstered foam core. Its soft presence evokes a majestic sense of serenity. Concealed inside the body, a powerful LED source emits a functional, pleasant light.

BuzziChandelier

Make a statement with your lighting by opting for the BuzziChandelier. A contemporary take on the classic chandelier with noise reducing performance. The perfect way to add atmosphere to your room with artful shadows and softened sounds.

BuzziMoon offers the best of both worlds; highly functional general lighting embedded in a proven acoustic ceiling solution. The LED light module is designed specifically to answer the request of general lighting in a workspace. BuzziMoon can be finished off in different fabrics and various 3D patterns. The diffuser gives it a “full moon” lighting experience.

BuzziHat

Its unique hat-shaped design, combining an upholstered part with a metal shade is bound to steal the attention in any space. The upholstered foam body is available in a wide palette of color and fabric combinations, while the metal shade and ring come in 4 finishes (black, white, beige red and gold). BuzziHat is available in different sizes to fit different sonic environments which makes it the ultimate acoustic lighting.

BuzziPleat LED

Traditional fashion design techniques, like smocking and pleating, are reinterpreted with sound-absorbing BuzziFelt to create large architectural folds, which deliver exceptional acoustic performance. The suspended BuzziPleat LED configuration marries sound control and illumination. It is equipped with BuzziSol, a powerful LED light source. The dimmable warm light gives BuzziPleat an even greater sense of depth.

BuzziZépp LED

With its striking shape, the streamlined BuzziZépp creates structure in a space. The large slit sound-absorbing panels with LED lines ensure minimal echo and adequate lighting so that you get a feeling of tranquility and security in the space. By making use of different colors you can visually partition the space into areas. You can dim the light so that you have the choice between a well-lit workplace or subtle lighting for meetings.

BuzziShade Pendant

Reminiscent of the tubular shape of a propeller, BuzziProp is an aerodynamic design with great sound absorbing capabilities. With its minimal design, BuzziProp allows your mind to travel to an uninterrupted and balanced space, for improved concentration, productivity and focus at work.

BuzziLight Mono

BuzziLight Mono is a striking phenomenon. The strips of sound absorbing felt are fixed around a steel structure, allowing this light object to take on different shapes. BuzziLight Mono makes a design statement with just one color of BuzziFelt.

Discover all our noise reducing lighting solutions on our website: www.buzzi.space
A conversation about lighting, acoustics & design

Opposite to what the word might imply, acoustic lighting is about much more than merging two rather technical fields of know-how – acoustic and lighting. Design is equally important in this relationship. To get a sense of the interplay between these three elements, we sat down with designer Alain Gilles and two of our BuzziExperts Sarah and Daniel for a conversation about lighting, acoustics and design.

The acoustic lighting category already includes several best-seller products, so why expand it?

“First of all, there’s a big opportunity in the market. Many rooms that need acoustic treatment also need lighting, and with our solid expertise in acoustics, it’s the next natural step for us to extend our portfolio with better and more diverse solutions to accommodate the demand for both acoustics and light”, says Sarah.

If the market offers such a big opportunity, what’s the reason why there’s only so few acoustic lighting products out there?

Daniel starts off, “Lighting and acoustic solutions have roots in two very different industries. Therefore, many lighting brands don’t have the in-house knowledge on acoustics for which reason they’ll try to outsource this part. At BuzziSpace, everything is in-house.” Alain nods agreeing, “Lighting is engineering, it’s hard components and metals. Adding acoustic elements to lighting typically involves upholstery and craftsmanship. It’s really a different type of know-how that is required to combine these two fields – know-how that most brands don’t possess. For a long time, I’ve been wanting to extend my design portfolio to include sound absorbing lighting, and now this has become a reality thanks to the collaboration with BuzziSpace.”

What’s most unique about the new products such as BuzziHat and BuzziZepp LED?

“The, almost, endless fabric and color combinations”, says Sarah without hesitation in her voice. “With these new solutions, we’re giving the customer the opportunity to easily combine and match fabrics and colors with other furniture in the space to create a harmonious design. Apart from being functional, offering very good acoustic performance and light output, these new products are also fun.” Alain laughs and continues, “BuzziHat is fun. It has character and personality – a bit like Michelin’s cute, puffy white mascot, Bibendum.”

Developing acoustic lighting is, however, not without any challenges. Which ones do you typically encounter throughout the development process?

“Combining light with upholstered sound absorptive materials, such as foam, is quite a challenge in itself, not only concerning certifications, but also from a design perspective. The end product must be beautiful and conceal its technical features”, states Daniel and looks up, “Take the BuzziMoon hanging above us. At first sight, you see a lamp covered in fabric without realizing that it’s an acoustic product as well. And that’s what I mean when talking about hiding technical properties. Sarah adds, “Achieving this is only possible because of the close collaboration and open dialogue we have with our designers. In the end, it’s about striking a balance between design concept and what’s possible from a production perspective.”

Before we end the conversation, we have one last question. Why should interior designers include acoustic lighting in their plans?

Alain begins, “Often a space is already occupied by other furniture pieces, and sometimes the ceiling is too. But in between floor and ceiling, there’s not always a lot happening. In spaces like these, BuzziZepp LED can be a great add-on. With its dense, yet slim, foam core, it provides acoustic treatment to a space while also supplying a great light output above a workstation.” Sarah continues, “The same goes for BuzziHat. Both products create a lot of acoustic volume and with the integrated light both bring along extra functionality, providing versatility just like our existing products. Customer don’t have to invest in both lighting and acoustic solutions anymore, we combine both.”
The meeting or dining room is a typical example where the right furniture, lighting and acoustics are necessary to make conversation between participants or guests clear and pleasant. In this example, the designers chose a black wooden BuzziPicNic with some colorful BuzziFloat chairs to add atmosphere. Thanks to the highly acoustic performing BuzziBell suspended from the ceiling, this meeting room is also well-balanced and ensures perfect speech intelligibility.

BuzziMoon answers the request of general lighting in the office space. With its sound absorbing body it scores high on acoustical performance. Here you see BuzziMoon in combination with BuzziVille. The LED module has an output of 2500 Lumen at a temperature of 3000K which is ideal to focus and meet. BuzziMoon can be finished off in different fabrics to match your furniture and exists in various 3D patterns.

BuzziChandelier adds atmosphere to your room with artful shadows and softened sounds. Make a statement and opt for a printed version in Gold, Carrara and Emperador. Our bar at Orgatec was lit with 3 BuzziChandeliers hanging from the ceiling. Perfect to improve high-pitched sounds of people talking and drinking.

The popular open-office model connects workers. But at the same time noise can be a challenge. At NicholsBooth Office the designers chose to add BuzziShade to create a little silent zone to work and meet. BuzziShade is designed with large-scale settings in mind.

BuzziShade Standing is an oversized floor lamp which combines lighting with acoustic performance and a great design. It reduces external noise levels to a minimum and is extremely versatile. Here you see it in a residential setting, but it can also be a fantastic addition to a waiting room, office or restaurant.

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BuzziShade Standing

BuzziChandelier

BuzziMoon

BuzziShade

BuzziBell

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Throughout the whole manufacturing process, craftsmanship is pivotal to guarantee high-quality finished products. In some departments, such as lacing and upholstery, much of the work is done manually, necessitating special techniques to accomplish the desired result. This, especially, applies to several of the products in our acoustic lighting portfolio.

Every BuzziShade, BuzziPleat LED and BuzziLight is hand-laced. The time it takes to lace the various products differ, but common for all is that the work requires a steady hand and eye for detail. The same holds true for upholstery.

More and more of our acoustic lighting solutions are upholstered or has an upholstered part which really sets them apart from the competition when it comes to sound absorption and noise reduction capabilities.

BuzziZepp LED and BuzziHat along with other new solutions, including BuzziProp LED and BuzziJet, all have upholstered cores. Their unique designs are visible from a distance, while up-close you will see the handcraft that goes into the products appear.

The curved edges and unconventional lines of the products makes upholstery an art in itself that contributes to both design and expression. As such, our skilled craftsmen are essential to the manufacturing process. Their expertise in creating high-quality solutions are what truly brings out that extra sparkle in every BuzziSpace product.

### Lacing times

- **BuzziPleat LED 1,5 m**: > 142 min.
- **BuzziShade L**: > 30 min.
- **BuzziMoon L**: > 70 min.
- **BuzziZepp LED L**: > 210 min.

### Upholstery times

- **BuzziPleat LED 1,5 m**: > 142 min.
- **BuzziShade L**: > 30 min.
- **BuzziMoon L**: > 70 min.
- **BuzziZepp LED L**: > 210 min.
TREATING NOISE ISSUES IN A ROOM

Many people work and live in open spaces which offer a high degree of flexibility and better possibilities for collaboration. However, these spaces often come with several sound and noise issues causing distractions and irritation. The good news is that there’s a way around these acoustic challenges. Learn more on how our acoustic lighting solutions can help you treat noise issues in a room.

HOW OUR PRODUCTS WORK

To create a better acoustic environment and reduce reverberation time in a room, BuzziSpace products are developed to perform on one or more of the following acoustic principles: absorption, diffusion and attenuation.

With acoustic lighting we can treat acoustics in 2 ways: absorption and diffusion.

**Absorption**

Sound Waves are absorbed by any ‘acoustically soft’ material they encounter.

Sound is energy and in order to stop this energy from propagating, absorptive panels will be used to convert this energy into heat through friction. The absorption coefficient of a product will determine the level and quality of absorption. Absorption applies to fixed wall or ceiling elements.

In a room with solid building materials (e.g. concrete, plaster, glass) sound keeps bouncing off the walls. To prevent this from happening sound absorbing objects can be placed against the walls or suspended from the ceiling. BuzziClipse is perfect for wall mounting and absorbs speech while creating subtle backlighting, perfect for presentations. BuzziMoon prevents the sound from bouncing off the ceiling and provides task light.

**Diffusion**

Sound energy is spread evenly in a given space

Wavelengths which cannot be absorbed through acoustic treatment will scatter evenly back into the room, ensuring a better spread while maintaining a live, vivid sound. This property can be obtained by alternating different depths of absorptive material and 3D shapes.

In large open spaces sound can travel from one side of the room to the other so conversations can interfere with other settings. BuzziChandelier and BuzziLight diffuse the sound so it’s spread evenly in the space and creates a luscious atmosphere.

**DID YOU KNOW?**

You can test acoustics in a room by measuring reverberation

Reverberation time is the time needed for an original sound source to decay 60 dB and is expressed in seconds. In order to generate excellent speech intelligibility and clarity, the reverberation time should be adjusted and balanced by the means of absorptive material in function of the specific acoustical issues in a given space. The recommended reverberation time will always have to be adapted to the room volume and the type of activity.

<table>
<thead>
<tr>
<th>RECOMMENDED REVERBERATION TIMES</th>
<th>INFLUENCES ON THE REVERBERATION TIME</th>
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<tbody>
<tr>
<td>&gt; Office 0.75s</td>
<td>Volume of the room</td>
</tr>
<tr>
<td>&gt; Meeting room 0.60s</td>
<td>Room temperature</td>
</tr>
<tr>
<td>&gt; Cafeteria 1.00s</td>
<td>Absorption coefficient of materials, objects and people in a room</td>
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<tr>
<td>&gt; Gymnasium 1.50s</td>
<td></td>
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<tr>
<td>&gt; Homes 0.90s</td>
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We perform continuous testing of our products

All acoustic products are tested to determine the absorption performance following the reverberation room method. All tests are done in an accredited test laboratory, Peutz B.V.

We created our own Acoustic RT60 App

When decorating a space, we often think of only the most visible items: tables, chairs and curtains. But what we do not see—the acoustics of the room—is too often forgotten. The RT60 app, developed by BuzziSpace, measures the reverberation time in each room and suggests products to improve sound quality. With the simulation tool, you can see the acoustical impact of BuzziSpace products in your room. > More info on how to get started via buzzi.space/blog/rt60
A recent study of the University of Texas found that bland grey, beige and white offices evoke feelings of sadness and depression, especially amongst women. Men, on the other hand, experienced similarly feelings in purple and orange workspaces. Other scientific studies show that colors don’t just change our moods, they also impact our productivity for better or for worse.

You can for example paint your whole office blue, because it’s a calming color that helps you to focus on a task. But try to find balance by mixing and matching colors. Our new acoustic lighting solutions are extremely customizable. For example, our BuzziHat pendants have the option to mix-and-match finishes and materials. The upholstered foam body is available in a wide palette of color and fabric combinations, while the metal shade and ring detail are offered in four finishes (gold, black, white and beige red). Finally, some upholstered lighting solutions that can match your office chairs!
BuzziProp LED

Aerodynamic design with sound absorbent capabilities

www.buzzi.space