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RELAX INSIDE

**UPHOLSTERY**  
IS  
IN  
OUR  
DNA  
SINCE 1948

**Chateau d'Ax**<sup>®</sup>  
MILANO

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OUR HISTORY

Over seventy years of  
experience  
in production.

Over seventy years of  
design and  
innovation in furniture.

Over seventy years of  
development  
in markets worldwide.

A great passion for work, attention to detail, traditional workmanship, a focus on quality and dedicated service are the values successfully cultivated over more than 70 years of business. A culture allowing Chateau d'Ax to develop products that continue to surprise, meet with success and create relaxing family home environments in more than 80 countries throughout the world.

Chateau d'Ax continues to be a leading edge brand, able to intercept and represent latest design, fashion and style trends through extremely high-quality products. Thanks to its long-standing experience and tireless research, Chateau d'Ax is able to satisfy the broadest range of styles, offering the typical quality of Made in Italy at affordable prices.

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OUR HISTORY

# In the beginning there was straw.

From time immemorial, straw has been the material used to make daily life more comfortable.

Chair upholstery was no exception. This was performed, from as early as the 1500s, by saddle makers, true experts in this craft. They kept the straw, or animal hair and wool, in place with fabric or leather and directly nailed to the structure.

It was not until the nineteenth century, however, that crossed-over straps put in an appearance, along with cylindrical compression springs, to give more elasticity and body to armchairs and sofas.

This then bring us to the first half of the twentieth century when the first materials in natural latex appeared and to the Seventies, with the first wadding in polyester and acrylic, which gradually replaced wool.

Nowadays, comfort and convenience are dictated by the numerous requirements of the human body. The main goal of the design and construction of every single Chateau d'Ax sofa.

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THE CHOICE OF WOOD

# A natural frame forms the base of everything.

Even if we do not see it, wood is the very best material for constructing a sofa, fundamental in guaranteeing a reliable structure over the years.

Which is why the choice of wood is all important. In Chateau d'Ax, the frames, the so-called "bones" of the sofa, are made of beech plywood, consisting of layers of solid wood joined together and then glued with special adhesives, designed to resist humidity and ensure they do not deform.

Before being processed, the seasoned beech wood, which is sourced from sustainable forests, is stored in a drying chamber at 60°C for a month.

It is only then that our expert carpenters start the painstaking work on all the different frames with planers, chisels, hacksaws, vices, squares and all the necessary work tools. Every time just as in the past, from 1948 to present day.

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**ELASTIC STRAPS**

# Supporting our values.

What importance do elastic straps have in a sofa? Care taken over the details has always been a bit of an obsession for us here at Chateau d'Ax and one we are unwilling to forgo.

What might seem like a minor detail, for us becomes vitally important, as is the choice of the leather.

After all, the elastic straps are the mainstays for supporting the upholstery. Which is why we only choose top-quality straps, made from natural latex and covered by attaching the polypropylene thread to the rubber to prevent it from slipping inside the fabric.

This procedure means that the strap lasts longer and retains its elasticity during use. The positioning of the straps on the frame is decided based on the specific use.

The straps are applied to the frames using different degrees of stretching: greater on the backrest but more rigid on the seat which has to withstand a greater weight.

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**POLYURETHANE**

# Soft and comfy, the heart of every sofa.

Chateau d'Ax started using polyurethane foam as padding for its sofas from the beginning of the 1960s, with the finetuning of this material.

Ongoing experimentation over time has gradually resulted in new features and characteristics aimed at improving comfort and a sense of well-being.

Polyurethane has an inner, open-cell, thin honeycomb structure which guarantees lightness, breathability and excellent mechanical performance. The specific structure is designed so that when you are seated, a rapid exchange of air occurs which consequently improves the elasticity.

Depending on the size of the cells, polyurethane foam can have different degrees of specific weight per surface area: in Chateau d'Ax, we choose a density of 35 kg/m<sup>2</sup> which provides maximum softness and the best performance over time.

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3D COMFORT

# The new dimension of wellness.

The history of Chateau d'Ax is studded with idea and projects that are steeped in the Italian tradition of design and comfort.

Excellent results achieved thanks to the balance between jealously guarded hand craftsmanship and a strong appreciation of research, innovation and technology.

3D Comfort, an amazing new product from the Chateau d'Ax laboratories, stems from the combination of these two worlds.

Launched in 2019 at the Salone Internazionale del Mobile trade fair in Milan, 3D Comfort is an upholstery consisting of 3 layers of 3 different top-quality materials.

This specific combination and the differentiated load offer a truly unique experience of comfort and well-being, available today in a range of high-end sofas.

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3D COMFORT

# High-density deluxe foam.

The first layer of 3D Comfort consists of polyurethane foam. The one chosen for this innovative technology has a density of 35 kg/m<sup>2</sup>.

Its composition allows for excellent breathability which prevents the build-up of humidity and the proliferation of dust mites and bacteria.

Its special design also provides excellent support and guarantees the long-term durability of the cushions, even with intense use.

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**3D COMFORT**

# Memory viscoelastic fibres.

The second layer of 3D Comfort is memory foam. This is a dense polyurethane-based foam to which substances are added which alter its density: the resulting material is viscoelastic, i.e. it can deform and react to weight in a totally innovative way.

It also reacts to body heat. In other words, it is a material that can deform differently all over, modelling itself around the shapes of the body and distributing the weight evenly, thus reducing pressure points.

The material has been given this name because it seems to possess a memory, i.e. it can remember the shapes into which has been deformed for several seconds before slowly returning to its original state.

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3D COMFORT

100%  
natural  
down.

The third layer of 3D Comfort, the one in closest contact with the body, is 100% natural down.

The features of down are well-known: it provides a pleasant sensation of softness and comfort whilst preserving the body's microclimate thanks to its natural breathable and waterproof properties.

Down also guarantees lightness and warmth.

Three layers of comfort, one unique technology that makes a difference to our well-being.

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**FUTURE VISION**

# “Green” alternatives for our comfort.

Let's be honest: polyurethane is not an environmentally friendly material because it is synthetic. Yet, thanks to its durable properties, it always gets a second life, especially in the construction sector, and fits perfectly into the so-called circular economy.

Over the last few years, however, research has invested heavily in the development of eco-sustainable alternatives and there is a lot of interesting experimentation taking place which will figure in the future of Chateau d'Ax.

**CELLULOSE**

Derived from paper processing residue, cellulose comes in the form of insulating, ecological, clean and safe flakes. Cellulose fibre is also resistant to moulds, insects and humidity.

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FUTURE VISION

“Green”  
alternatives  
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**VEGETABLE OILS**

In the area of commonly used products, however, an alternative to polyurethane could come from vegetable oils.

A new production technique, in fact, allows plastic materials to be obtained using various oils extracted from plants: some, such as flax seed oil, are more suitable for rigid materials, while others, such as olive oil, lend themselves to the production of more flexible products.

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FUTURE VISION

# “Green” alternatives for our comfort.

## SUGAR

Another interesting aspect is foam rubber made with materials derived from sugar.

The results of the first tests carried out by researchers have confirmed similar performances to those of traditional polyurethane and the most interesting aspect of the innovation is that the material can be virtually entirely recycled.





**Chateau d'Ax<sup>®</sup>**  
MILANO