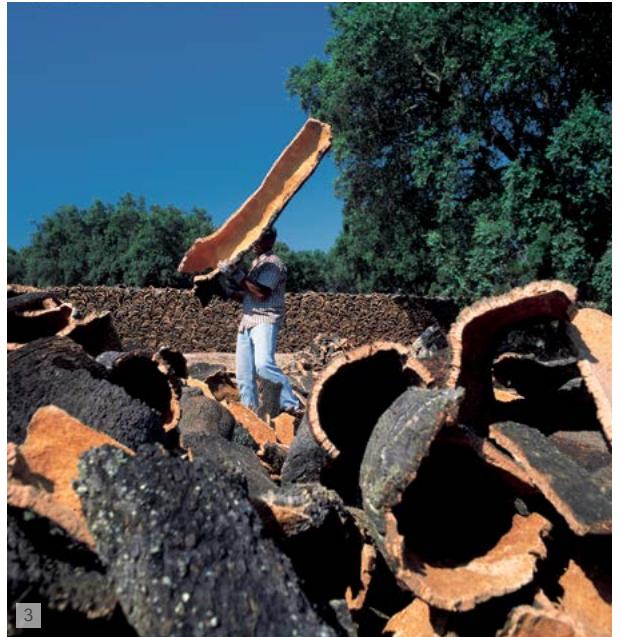
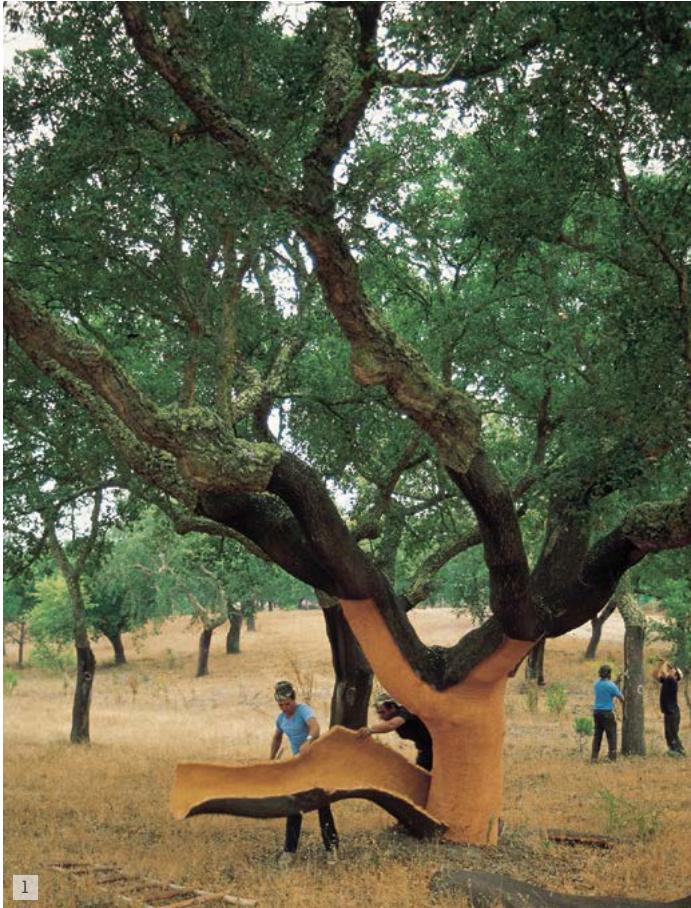
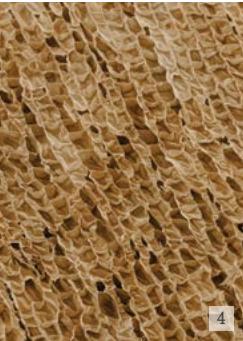




Ultimate comfort  
by nature



- 1 Harvesting of the cork oak
- 2 Cork forest in Portugal - called "Montado"
- 3 Storage of cork - rests for about a year before being used
- 4 Microscopic view of cork's honeycomb structure



## CORK IS NATURE

---

### More renewable

Cork comes from the bark of the cork oak tree. It's harvested by hand when the tree is 25 years old and occurs every 9 years from then on leaving the tree undamaged and able to regrow a new bark.

Cork is ideal in terms of the ever increasing demand for conservation of natural resources. It has unique and incomparable qualities

which no ingenious human has yet copied or improved.

It's made of 40 millions cells per  $\text{cm}^3$  resembling a honeycomb structure which protects the tree from sharp weather temperature changes. Each cell functions as a miniature natural thermal insulator and also provides above average sound insulation and shock absorbing properties.

Cork is the bark of the cork oak tree, notable for being a renewable resource, with elasticity, resistance, low weight and impermeability to liquids and gases.

# CORK IS INNOVATION

---

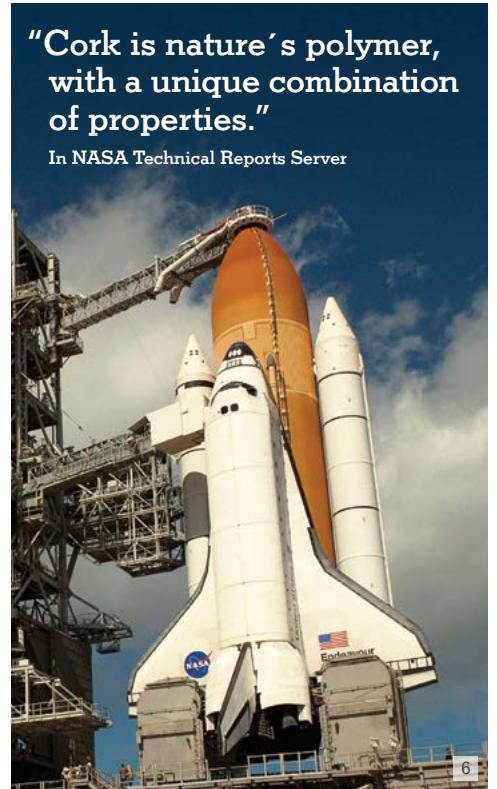
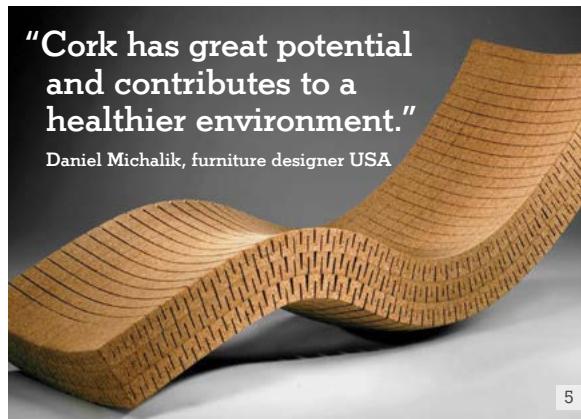
## More added value products

By embracing ecological and natural materials more often, researchers, architects and designers have been rediscovering cork, coming up with great discoveries and new uses. It is increasingly common to find cork used in decorative and design items that enhance spaces, garments

and goods that are shown on the runways, hi-tech accessories and even in aerospace, automobile and pharmaceutical industry. It's being applied to face a variety of needs, due to its lightweight, insulation and shock absorbing properties.

A centuries-old material with unique properties is key in creating products with added value.





**"Cork is nature's polymer,  
with a unique combination  
of properties."**

In NASA Technical Reports Server

**"Cork has great potential  
and contributes to a  
healthier environment."**

Daniel Michalik, furniture designer USA

- 1 Interior of the new Mercedes F700 concept car
- 2 Cabin LIFE, winner of The Cristal Cabin Award
- 3 Tea set by Raquel Castro for Soul Mate collection
- 4 Nelo Kayak winner at the Beijing Olympics
- 5 Cork chaise longue by Daniel Michalik
- 6 Booster nose cone and frustum in cork at Nasa's space shuttle
- 7 Helix cork stopper by Amorim
- 8 Cork shoe by Nike Sportswear LeBron X



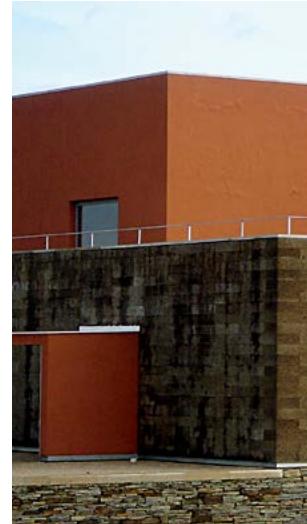
1 Bedroom with cork flooring

2 Ecorkhotel in Évora, with special MD façades - expanded cork boards

3 Quinta do Portal in Douro with special MD façades - expanded cork boards

4 Living room with cork wall covering

5 External thermal insulation composite system





## CORK IS INNOVATION

---

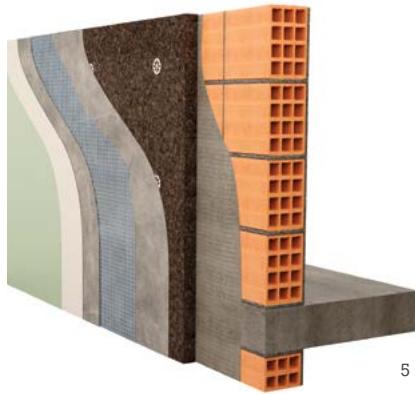
### More green construction

The use of cork in modern construction and decor has expanded worldwide following the latest technology, design and green building trends.

Awareness of cork's acoustic, thermal and anti-vibration properties, followed by reduced costs in energy heating, have made it the ultimate insulator and wall or floor covering material.

The growing importance of natural and sustainable materials and the wide range of patterns, textures, colours and applications available, have awakened the interest of architects and designers that want to provide unique solutions with added value to their projects.

Cork has unique features that make it an excellent material to use in construction and decoration.



# CORK IS COMFORT

## More than just a beautiful floor

Over the years, Wicanders has developed floor and wall coverings with exclusive properties due to its innovative Corktech technology.

By using a unique engineered multi-layer structure, which combines state of the art technology with the exclusive natural properties of cork, a higher standard in flooring was achieved, providing the perfect match between beauty, comfort and durability.

Wicanders floors are available with different decorative materials protected by the upmost resistant finishings.

The uniqueness of Wicanders was achieved by using a prime quality core layer of cork, which provides superior comfort, noise reduction and warmth. An integrated cork underlay reinforces thermal and acoustic properties, resulting in a silent environment and important energy cost savings.



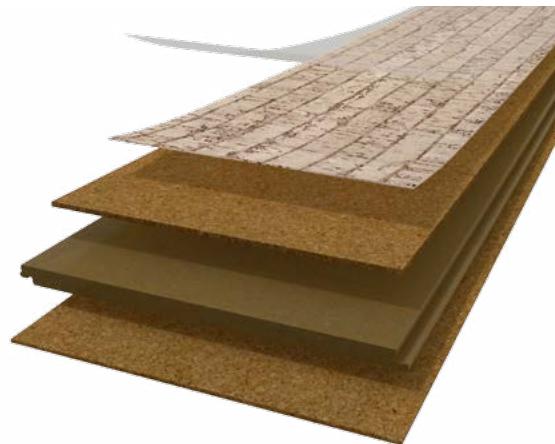
Protective wear layer

Decorative material

Agglomerated cork  
Step sound reduction,  
warmth & comfort

High density fiberboard

Insulating cork underlay  
Impact sound reduction  
& thermal reinforcement





More **silence**



More **walking comfort**



More **warmth**



More **body wellness**



More **impact resistance**



---

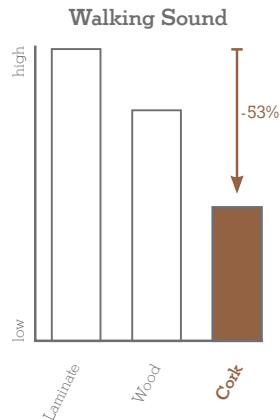
## More silence

Cork is an extremely efficient natural sound absorber because its cells work as an acoustic insulator.

Wicanders cork floors can easily cut noise within a room (walking sound), and act as a noise buffer between the floor and the rooms underneath (impact sound), making it exceptionally efficient to use in residential or commercial spaces.

Comparing the walking sound between cork and laminate floors, tests confirm that cork floors have an exceptional result reducing the sound up to 53%.

Wicanders products provide a peaceful and quiet environment with higher comfort and relaxation.



According to tests, the use of cork floors can reduce the walking sound up to 53%. Study run by Entwicklungs- und Prüflabor Holztechnologie gmbH (EPH) in Germany according to IHD-W 431.

## More warmth

The natural thermal insulation properties of cork make Wicanders floors very energy efficient providing a pleasant touch, even barefoot, and an optimal floor temperature all year round which contributes to an overall comfort.

When testing foot temperature in contact with four different materials,

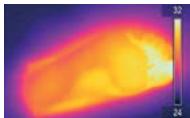
cork floors stand out as being the best solution to retain heat.

Better than wood and by far better than vinyl or ceramic when it comes to avoid energy dispersion.

Wicanders cork floors are perfect for homes with children and busy feet providing happy moments between family and friends.

### Infrared foot temperature

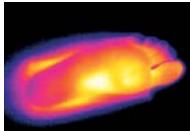
Before contact



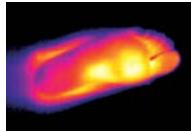
hot  
cold

Studies reveal that cork is the best energy efficient material avoiding energy dispersion. Study run by IBV biomechanical institute in Valencia, Spain.

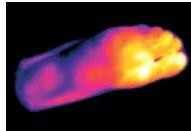
After contact for 2 min



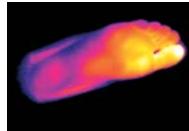
Cork



Wood



Vinyl



Ceramics





---

## More walking comfort

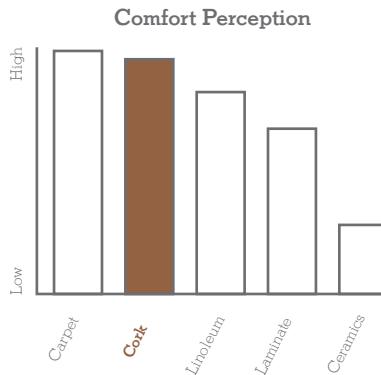
Cork floors are very comfortable to walk on due to cork's natural and inherent flexibility providing a unique comfort in movement.

When testing the level of comfort perception of people walking for 45 minutes over five different materials, results show that Wicanders cork floors have a great outcome.

With high comfort perception, it outperforms linoleum, laminate and ceramic floors.

Even when walking barefoot on a Wicanders floor, a sense of cosiness, relaxation and enjoyment is felt, adding to the overall well-being.

Pleasant to touch and easy to walk on: that's how valuable Wicanders cork floors are.



After 45 minutes walking in contact with five different materials, studies state that Wicanders cork floors have a much higher comfort perception than linoleum, laminate and ceramic floors.

Study run by IBV biomechanical institute in Valencia, Spain.

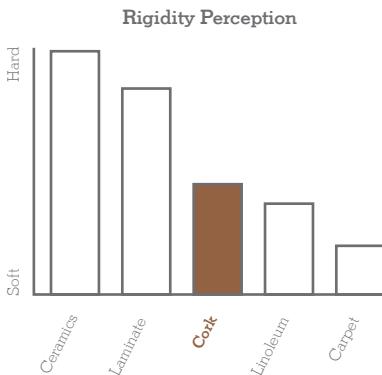
## More body wellness

Walking on overly hard floors creates energy that moves upward towards our muscles and tendons, causing them to vibrate. This is caused by the impact of our heel with the floor. These vibrations, with time, hurt our feet, legs, lower and upper back, creating an excess of tension.

Too soft floors cause fatigue and aren't easy to walk on. This can be

better understood when walking for 45 minutes straight on soft sand.

Softer than laminate and harder than carpets, Wicanders cork floors are the perfect mix to reduce heel strike impacts and related body tensions, but stable enough to help the foot impulse and provide the needed stability to reduce effort on walking and decrease body fatigue.



Tests show that Wicanders cork floors are the perfect mix between overly hard or too soft floors, being easy on the body as they provide reduction in tensions and fatigue. Study run by IBV biomechanical institute in Valencia, Spain.





---

## More impact resistance

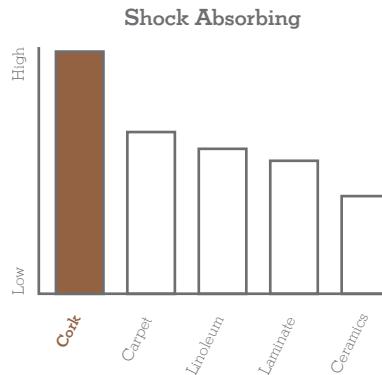
Cork's elasticity and compressibility allows it to adapt to pressure.

When compressed, it doesn't lose flexibility, recovering its initial shape and volume without suffering damages. Wicanders floors, due to its resilient qualities have the ability to bounce back from hard impacts.

Tests show that Wicanders cork floors have the highest shock absorbing performance.

When an object accidentally falls in a cork or in a laminate floor, different results come through.

Wicanders floors absorb better the impact maintaining its resistance at the same time. This results in a very robust flooring with a long life span.



Tests show that Wicanders cork floors are the most shock absorbing. Study run by IBV biomechanical institute in Valencia, Spain.

# CORK IS SUSTAINABILITY

---

## More future

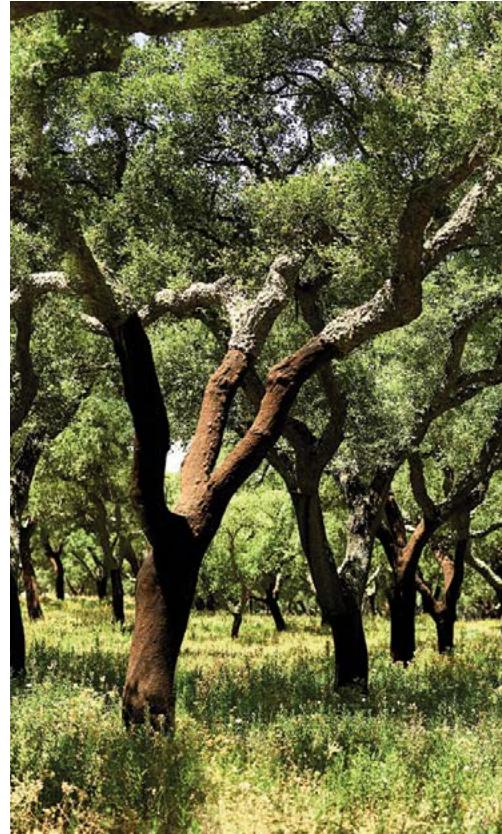
The Montado area is considered a hotspot of biodiversity, as it is the habitat of a diverse range of animal species and plants.

Regular extraction of cork is a fundamental contribution for environmental, economic and social sustainability of the rural areas and the Mediterranean region.

Wicanders represents a unique balance between the creation of wealth and the protection of the environment. The cork industry is

remarkably sustainable; it extracts the cork cyclically from the trees without ever harming them, and turns it into high value-added products while promoting the economic and social sustainability of areas at risk of desertification.

Wicanders products actively contribute to reduce global warming, not only through low emissions, but also due to cork's natural property of retaining CO<sub>2</sub>.





1



2



3



4

- 1 "Montado"
- 2 Imperial Eagles - endangered species
- 3 Black Storks
- 4 Rosmaninho *lavandula luisieri*



- 1 London Design Festival, Albert & Victoria museum - England
- 2 Microsoft headquarters - Portugal
- 3 Leonardo da Vinci museum - Italy
- 4 La Sagrada Familia - Spain
- 5 Boscolo B4 hotel - Italy
- 6 Nezu museum - Japan



## CORK IS REFERENCE

---

### More prestigious projects

The unique properties of cork make Wicanders acknowledged worldwide by architects, designers and engineers. From homes to hotels, restaurants to libraries, museums

to hospitals, Wicanders coverings can be found all over the world perfectly matching the specificity of the projects that they're chosen for.



NL/BE/LU	Amorim Benelux B.V. (+31) 166 604 111 .....	info.ar.nl@amorim.com
DE	Amorim Deutschland GmbH (+49) 4221 5 93-01 .....	germany.ar.de@amorim.com
AT	Amorim Flooring Austria (+43) 1 54 51 65 10 .....	austria.ar.de@amorim.com
CH	Amorim Flooring Switzerland AG (+41) 417 262 020 .....	info@amorim.ch
PT	Amorim Revestimentos, S.A. (+351) 227 475 600 .....	geral.ar@amorim.com
ES	Amorim Revestimientos, S.A. (+34) 902 307 407 .....	info.ar.es@amorim.com
FR	Amorim Revestimentos, S.A. (+33) 800 914 848 .....	geral.ar@amorim.com
CN	Amorim Revestimentos, Macau (+85) 366 625 06 .....	mario1104@hotmail.com
JP	Amorim Japan Corporation (+81) 035 575 69 09 .....	amorimjapan.ar@amorim.com
DK	Timberman Denmark A/S (+45) 995 252 52 .....	timberman@timberman.dk
PL	Dom Korkowy, Sp. z o.o. (+48) 126 379 639 .....	krakow@domkorkowy.pl
US	Amorim Flooring North America (+1) 410 553 60 62 .....	info.ar.us@amorim.com



**AMORIM**

HeadQuarters

Amorim Revestimentos S.A

(+351) 227 475 600

geral.ar@amorim.com

