



**Bringing nature  
back into play**



**Corkeen<sup>®</sup>**  
by Amorim





# **Corkeen is the revolutionary surfacing system for playgrounds made from natural cork**

Developed and produced by Amorim, the world leader of the cork industry, Corkeen combines unparalleled sustainability credentials, safety, and accessibility in a single solution.

Made from cork, a 100% natural material, Corkeen is the eco-friendly and sustainable surfacing solution trusted by architects for playground projects worldwide.



# Cork, a gift from nature

Cork is the bark of the cork oak tree (*Quercus suber* L.), a plant tissue that covers the trunk and branches. It is a 100% natural and renewable raw material, valued for its unique properties and used across multiple industries and applications.

From a structural point of view, cork has a unique cellular composition. It is made up of millions of microscopic, hive-like cells filled with a gas similar to air and coated mainly with suberin and lignin. This structure gives cork its exceptional lightness, elasticity and compressibility. In fact, just one cubic centimetre of cork contains around 40 million cells, which is why cork is often referred to as “nature’s foam.”

Cork is harvested sustainably without cutting down the tree. The cork oak tree re-grows the outer bark layer and it can be stripped 15-18 times throughout its life.

**9 years:** The period of time between each cork oak harvesting.

**25 years:** The average time before the cork oak is harvested for the first time.

**200 years:** The average life expectancy of a cork oak.





**The cork incorporated  
in 1 m<sup>2</sup> of Corkeen has  
a carbon footprint of  
-2.66 kg CO<sub>2</sub>eq\***

## **Cork, a positive contribution for climate regulation**

The cork oak forest provides an essential contribution to the air that we breathe, by absorbing carbon dioxide. It is estimated that for every ton of cork produced in the forest, the cork oak forest sequesters up to 73 tons of CO<sub>2</sub>.\*\*

\* Carbon footprint refers exclusively to the cork material incorporated per m<sup>2</sup>. Results do not represent the total carbon footprint of the Corkeen system.

\*\* Source: [https://www.apcor.pt/wp-content/uploads/2015/10/Brochura\\_Ambiente\\_EN.pdf](https://www.apcor.pt/wp-content/uploads/2015/10/Brochura_Ambiente_EN.pdf)

# Corkeen: a sustainable, safe, and durable playground surface for outdoor spaces

## Great impact absorption

Tested according to EN 1177 / ASTM F1292 for critical fall height performance.

## Thermal comfort in warm conditions

Cork's thermal conductivity (0.037–0.043 W/(m·K)) is up to 4× lower than typical rubber compounds (0.10–0.25 W/(m·K)), helping surfaces stay cooler under sun exposure.

## Sustainable and eco-friendly

The cork incorporated in 1 m<sup>2</sup> of Corkeen stores –2.66 kg CO<sub>2</sub>eq\*.

## High drainage performance

Tested according to BS 7188.

## Slip-resistant

Tested according to BS 7188.

## Fire-retardant

Tested according to BS 7188 requirements on ease of ignition.

## Weather-resistant performance

Long-term monitoring of installed projects shows CFH values maintained after 5 years.

## Suitable for aided mobility

Tested according to F1951.

## No harmful substances

Cork is free from heavy metals, EDC, T-COV, formaldehyde and PAH.

## Lightweight


Corkeen system granules typically have a density of 65–130 kg/m<sup>3</sup>, significantly lower than rubber granules (400–700 kg/m<sup>3</sup>), resulting in a lighter surface that is easier to transport and install.

## Odorless

Naturally odour-free material, ensuring a clean and neutral environment during installation and throughout product lifetime.

\* Carbon footprint refers exclusively to the cork material incorporated per m<sup>2</sup>. Results do not represent the total carbon footprint of the Corkeen system.





# Critical fall height performance of Corkeen projects

The Corkeen system is validated in real-life installations to ensure long-term playground safety. The Critical Fall Height results shown derive from a selection of projects across different geographies.

**1 YEAR**

## Lake Highlands

**Country:** USA  
**Installed:** 2024  
**Critical Fall Height:** 1.80m

2025 audit – compliant



**3 YEARS**

## Amalie Skramsvei

**Country:** Norway  
**Installed:** 2022  
**Critical Fall Height:** 1.60m

2022 audit – compliant  
2025 audit – compliant



**5 YEARS**

## Kirkebukten Park

**Country:** Norway  
**Installed:** 2020  
**Critical Fall Height:** 1.60m

2022 audit – compliant  
2025 audit – compliant





# ČESKÉ BUDĚJOVICE

Czech Republic

**Client:** České Budejovice City

**Dimension:** 380 m<sup>2</sup>

**Brand Master:** Gartensta

# VOLUNTARI

Romania

**Client:** Voluntari, Ilfov County

**Dimensions:** 75 m<sup>2</sup>

**Brand Master:** Indfloor



# TYSVÆR

Norway

**Client:** Frakkagjerd Youth School

**Dimensions:** 844 m<sup>2</sup>

**Brand Master:** Sandvik Play



# STAVANGER

Norway

**Client:** Stavanger University Hospital

**Dimensions:** 150 m<sup>2</sup>

**Brand Master:** Sandvik Play



## SKANÖR

Sweden

**Client:** PEAB  
**Dimensions:** 160 m<sup>2</sup>  
**Brand Master:** Nordic Surface

## TÄBY

Sweden

**Client:** Municipality of Täby  
**Dimensions:** 400 m<sup>2</sup>  
**Brand Master:** Nordic Surface





## SANTIAGO

Chile

**Client:** Municipality of Vitacura

**Dimensions:** 150 m<sup>2</sup>

**Brand Master:** Urbanplay



## WEST NUSA TENGGARA

Indonesia

**Client:** Buin Batu International School

**Dimensions:** 4000 m<sup>2</sup>

**Brand Master:** RetroMax





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