

NRT

REINVENTING
CORK FLOORING
COMPONENTS



NRT
inside

Reinventing how cork engages the world.



AMORIM
CORK COMPOSITES

NRT FULL EXPERTISE IN THE FLOORING INDUSTRY

NRT reduces noise and increases the walking comfort.

The Amorim Cork Composites experience in the flooring industry allowed the development of specific products to this industry that include in the final product a better noise reduction and more thermal comfort, having in mind the need to preserve the environment.

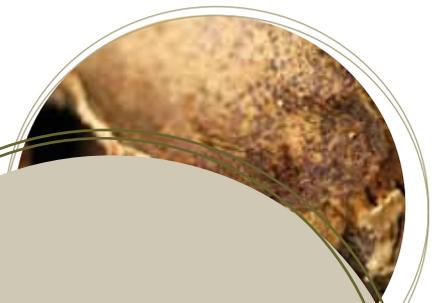
The inclusion of **NRT** products not only increases the noise reduction, but also answers to the requirements of the sustainable construction.

To the high technical performance, the **NRT** products add the concern to develop solutions that integrate in our business partners processes.



REINVENTING SUSTAINABILITY FOR THE FUTURE

The lightness and sound absorbing capacities are two of cork's key characteristics.





NRT TOP LAYER
FOR DIGITAL AND
DIRECT PRINT.

NRT
inside

NRT - Noise Reduction Technology for top layer, inlay and backing.

NRT Inlay – Footfall Noise insulation

The use of an NRT *inlay* placed very close to the noise source dissipates energy transmitted by the foot when hitting the floor.

Energy dissipation in perfect balance with the right **indentation acceptance criteria** is only possible to achieve when using the NRT to be placed underneath a paper, a vinyl or a veneer facing layer.

NRT Backing – Impact Noise

The use of a NRT *backing layer* acts like the traditional underlay, preventing the transmission of

mechanical energy through the slab. The perfect **energy attenuation** is provided by the engineered combination of cork and rubber, targeted to be underneath the MDF, plywood or staves.

NRT Top Layer – Design and Acoustic Performance

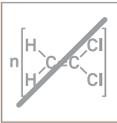
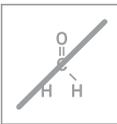
NRT Top Layer is a component of high density cork designed for direct and digital printing. Its compact and smooth surface allows the printing of a customized design, while contributing for an extraordinary performance on the impact noise attenuation.

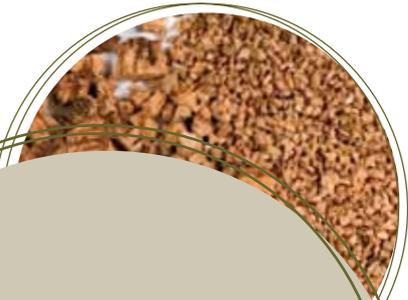


**NRT INLAY
FOR PERFECT
ENERGY
DISSIPATION**

**NRT
inside**

Build a final flooring thinking about Health and Nature.

	Free of PVC and Heavy Metals.
	Formaldehyde Free.
	Recyclable.



**REINVENTING
SUSTAINABILITY
FOR THE FUTURE**

More than 90% of cork's volume is air: The air inside the cells makes it an excellent insulator. Cork as a very low thermal conductivity over a wide range of temperatures (-173°C / -279°F to RT).





**NRT BACKING
TO A BETTER NOISE
REDUCTION**



**NRT
inside**

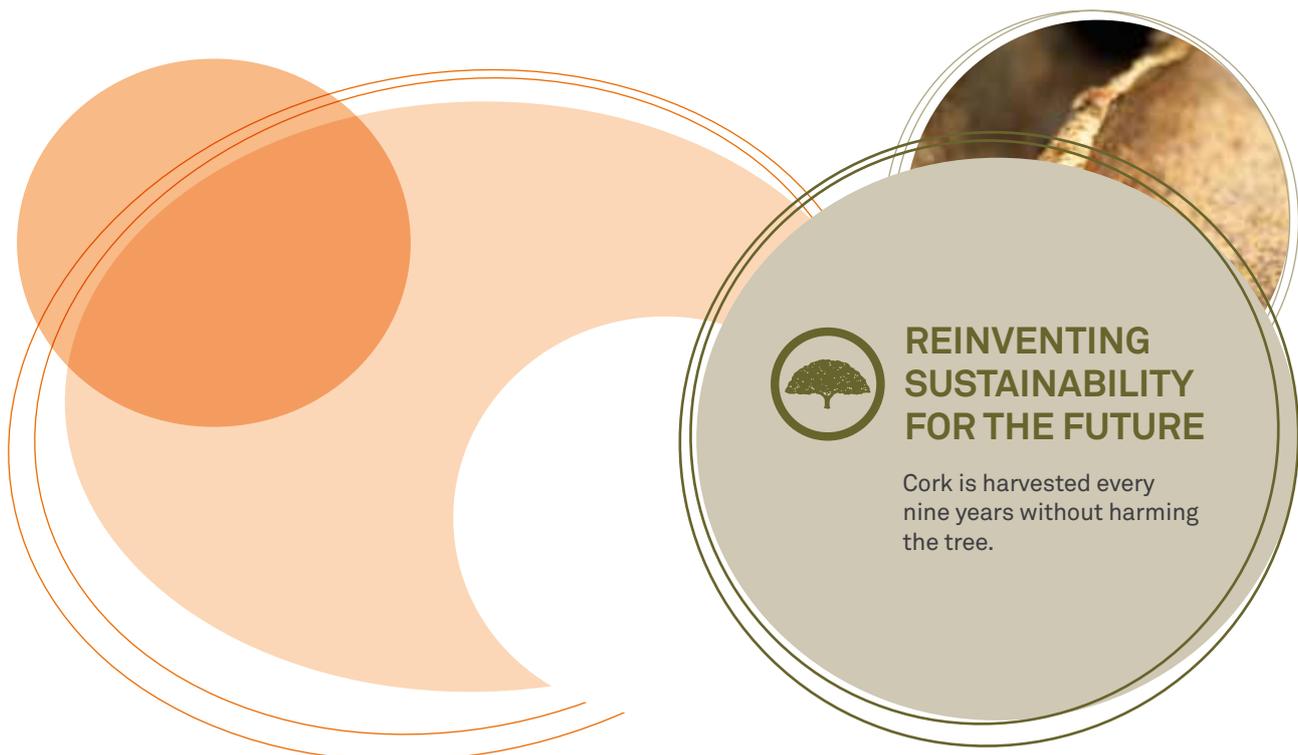
The best option to improve impact and footfall noise reduction.

	Footfall Noise Reduction.
	Impact Noise Reduction.
	Thermal Insulation.
	Extended Durability.
	Long Term Resilient System.

	Walking Comfort.
	Cost Competitive.
	Freedom of Design.
	Sustainable Product.

NRT Quick Reference Guide

	Top Layers		Inlay		Underlay & Accessories			
Concept	Designed for Direct & Digital Printing		Cork Layer Between HDF and Top Layer		Backing layer to improve acoustic performance			
	NRT 93	NRT 94	NRT 95	NRT 96	NRT 61	NRT 62	NRT 63	NRT 85
Impact Noise Insulation (ΔL_w (dB))	20	22	21	21	20	21	19	21
Footfall Noise Reduction dB(A) Sone (% versus reference floor)	12 57.2	12 57.2	11.5 54.2	11.5 54.2	4.5 22.4	5 23.5	5.5 25.1	4.5 22.4
Tensile Strenght (Mpa)	1.3	1.3	1.3	1.3	---	1.1	1.1	---
Laminate	●	●			●	●	●	●
Resilient			●	●	●	●	●	●
Wood Based			●	●	●	●	●	●
Availability	Rolls - Sheets - Panels							
Width	Minimum 100mm - Maximum 2100mm							
Lenght	Minimum 600mm - Maximum 1,000mm							
Thickness	Minimum 0,8mm - Maximum 8mm							





NEW TECHNOLOGY
THAT ENABLES
TO SUPPLY 2,1 M
WIDE ROLLS.

REINVENTING CORK FLOORING COMPONENTS

NRT rolls were specially developed to optimize the flooring production process.

The new DBP technology produces high density rolls with a maximum width of 2,1 meters.



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