

ACOUSTIC **silent**cork

Insulation Solutions



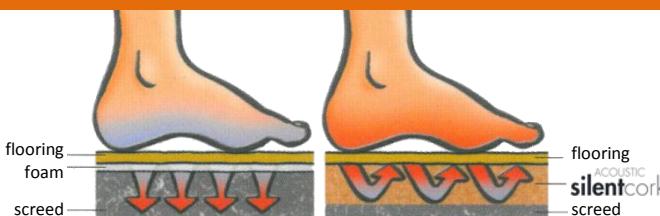


Wood, laminates, vinyl, linoleum and ceramic floors...

silentcork improves your quality of life by reducing the cold from the floor.

silentcork is a miracle of nature combining the most advanced technology with cork – a natural product. It does not contain any carcinogenic substances. It improves indoor air quality due to its natural properties. **silentcork** provides optimal protection against noise and heat transfer, impact, pressure and moisture. It's not affected by factors such as moisture and insulation properties aren't lost over the years.

Warm...



Wood, laminate, carpet and ceramic floors absorb our body heat, thus the floors have a colder feel. Classic synthetic foams do not provide thermal insulation.

silentcork placed under the floors reflect heat of our body, thus offering a more comfortable feel and protecting the natural warmth of your feet.

...and Quiet!!!



silentcork improves the impact sound of the heel by spreading it over the entire concrete slab structure, reducing the step sound of a heel in 7 dB and providing a impact sound reduction up to 33 dB



CR-108 Roll



CR-12 J Roll

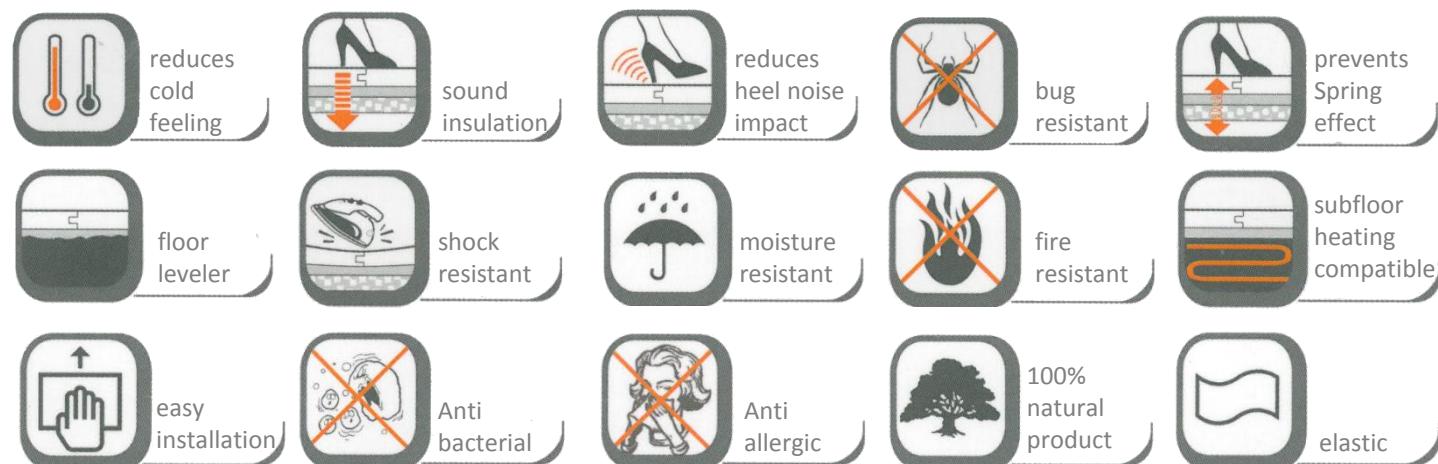


CR-015 Roll



Floor Type	Material	Grade	Acoustic Reduction ($\Delta Lw(dB)$)	Thermal Reduction (m ² K/W)	Standard Sizes
Laminated		Aggro. Cork CR-108 Roll	20dB	0.051	1m x 10m x 2mm
Carpets		Aggro. Cork CR-12 J Roll	33dB	0.125	1m x 10m x 5mm
Massive Hardwood		Aggro. Cork CR-108 Roll	26dB	0.079	1m x 15m x 3mm
Wooden Parquet		Rubbercork CR-015 Roll	16dB	0.027	1m x 15m x 2mm
Ceramic		Aggro. Cork CR-108 Roll	16dB	0.132	1m x 15m x 5mm
Ceramic		Rubbercork CR-015 Roll	6dB	0.029	1m x 15m x 2mm

ACOUSTIC silentcork underlays are designed to meet the Acoustical Legislations of European and American countries in regards to standard/common concrete slabs, permitting substantial impact noise insulation between dwellings. A standard/common bare concrete slab - not insulated - has an acoustical reduction up-to 75/85dB while such noise transmission can be further reduced from 16dB to 33dB by using **ACOUSTIC silentcork** underlays, helping buildings to fulfill the most demanding Legislation (varies from 53 dB to 60dB).





Cork is harvested from the renewable bark of the cork oak tree and is a completely natural product. The trees are not damaged or felled during the harvest – this 100% ecological product meets the requirements to protect and conserve the environment.

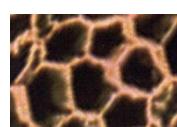
In cork oak plantations, the first cork bark will not be harvested from a tree until it is 25 years old. Today, cork oaks are stripped off their bark by hand in the same way they traditionally have been for several hundred years.

The trees are not damaged during the harvesting process and the bark grows back completely time and time again, taking on a smoother texture after each harvest.

A cork oak can live up to 200 years. Harvesting only occurs once every nine years. Over the course of their long lives, cork oaks can be harvested up to 20 times – it is one of nature's truly inexhaustible resources.

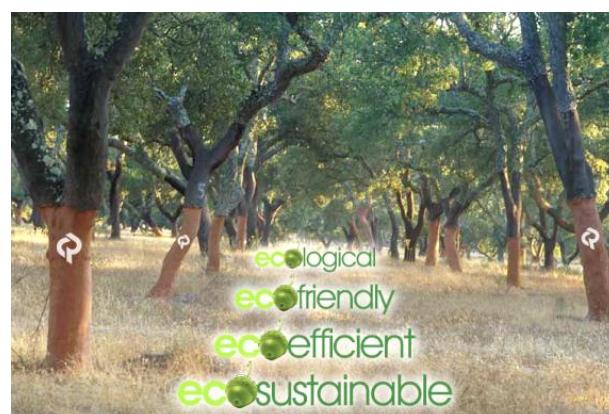
The ecological value of this raw material is evident – but what special properties does cork offer? Cork's structure is very similar to that of a honeycomb: each cubic centimeter contains around 40 million cells. These cells and the spaces between them are filled with a gaseous mixture similar to air. That's why cork is so remarkable.

The unique structure and composition of cork enhance the most important characteristics in every application.



Unlike other major synthetic alternatives **silentcork** underlay applications are able to maintain its thermal and acoustic performance throughout the years. Cork's unique physical structure makes the product a very efficient acoustic insulator. The same physical structure confers to Cork materials the ability to be systematically compressed and then regain its shape and form to almost 100% of the original size.

silentcork underlays are unique natural materials supplied on slab or roll form and different sizes & thicknesses suitable for installation under almost any floor covering with substantial improvement in acoustical and thermal reductions. Ecological. Recyclable. Sustainable. Easy to install. Resilient. Fire resistant, Hygienic, vapor barrier, crack suppressor and a lot more unique features.



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