



Renovation Makes a Difference

The Future of Flooring

New IVL Study Further Validates Environmental Benefits

Bona[®]



Facts

that strengthen
our passion

THE IMPACT OF RENOVATION VS. REPLACEMENT

- CO₂ and Energy Savings
- Cost and Time Savings
- Design Possibilities



Renovation Significantly Reduces Environmental Impact

RENOVATING INSTEAD OF REPLACING

For decades, Bona has championed floor renovation as a more responsible alternative to replacement. While practical experience has long supported this view, there was limited public research to quantify its environmental impact. In 2019, Bona partnered with the IVL Swedish Environmental Research Institute to compare the environmental impact of floor renovation versus replacement in Sweden, with clear results: renovation significantly reduces environmental impact.

To test whether these findings could be replicated at scale, Bona expanded the study to Germany. Compared to the initial study in Sweden, the second study differed in several key ways:

- Market size: Germany represents a market eight times larger than Sweden.
- Flooring surfaces: A broader range of flooring surface types was examined.
- Standards: The analysis was conducted using the latest standards.

Released in late 2025, the results further confirm the substantial environmental benefits of floor refinishing over replacement.

Combined with Bona's own calculations showing lower costs, time savings, and extensive design flexibility, the conclusion is clear: **with Bona's floor renovation solutions, it's easier than ever to achieve a like-new floor without the cost, downtime, and environmental impact of replacement.**



The Impact of

Renovation vs. Replacement

WOOD FLOOR 89% CO2 EMISSIONS SAVINGS
WOOD FLOOR 97% ENERGY SAVINGS

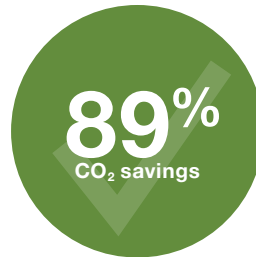
RESILIENT FLOOR UP TO 89% CO2 SAVINGS
RESILIENT FLOOR UP TO 93% ENERGY SAVINGS

Our Impact Matters

Significant CO₂ and Energy Savings

CO₂ EMISSIONS SAVINGS BY RENOVATING 100 M² WOOD FLOOR

By renovating a wood floor rather than installing a new one, the CO₂ emissions savings are as high as 89% on average. This means that renovating 100 m² of wood flooring, rather than replacing it, saves more CO₂ emissions than are generated by a flight between Stockholm and Lisbon. In comparison, renovating just 20 m² of wood flooring saves as much CO₂ emissions than a flight between Hamburg and Munich.



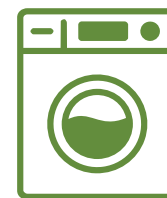
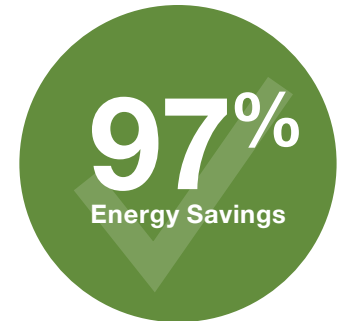
ENERGY SAVINGS BY RENOVATING 100 M² WOOD FLOOR

Renovating a floor instead of replacing it can reduce energy use by around 97%.

For a 100 m² (20 m²) floor, that means choosing renovation saves more energy than

- than doing 6,000 (1,200) loads of laundry.
(assuming 2.5-3 kWh per load)
- an electric car uses to drive around 90,000 (18,000) km.
(assuming 15-20 kWh per 100km)
- an average European household uses in about 1½ years (3½ months).
(assuming 10.000-12.000 kWh per year)

A simple choice that makes a big difference for both your home and the environment.



6000 LOADS



90,000 KM



1.5 YEARS

*average savings of comparing floor replacement to renovation. Visualizations are artist renderings designed to aid interpretation of the data and may not reflect exact numeric proportions. Refer to the source data for precise figures.



Substantiated and Verified Facts

INDEPENDENT REPORT FROM IVL

Floor owners and other stakeholders in the industry do not always recognize that floor renovation is a viable alternative to installing new flooring. Perfectly good floors are thrown out and replaced with new, sometimes inferior floors, resulting in waste of materials and resources. In the modern world where resources and energy are becoming scarcer and impact on the climate is becoming increasingly critical, the full extent of the environmental consequences needs to be evaluated and taken into consideration. Quantifying these effects was the aim of the study conducted by IVL, the Swedish Environmental Research Institute.

NEW STUDY, SAME GOAL

This 2025 study, which was conducted for the German market, is the next step of research inspired from the previous 2019 study conducted in Sweden. Both studies evaluated the environmental impact of replacing a worn, damaged or outdated flooring surface compared to refinishing the flooring surface which includes sanding, finishing, staining, or painting. Because Germany is a larger market than the original Swedish study, this research offered a broader evaluation of environmental impacts.

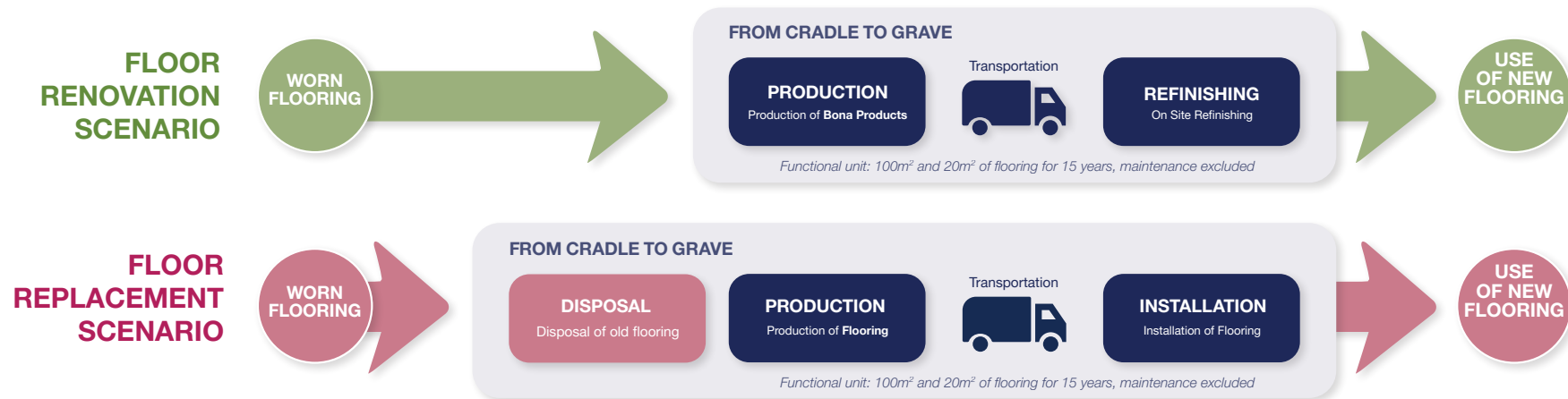
The analysis focused on parquet, vinyl, and linoleum flooring and employed a comparative Life Cycle Assessment (LCA) methodology. Calculations followed ISO 14040/44 and Environmental Product Declaration (EPD) standards. While the new study used updated EPD standards, preventing direct comparison to the original research, the findings align closely, reinforcing similar conclusions.

The Life Cycle Assessment of a Floor

The report reviews the environmental impact from refinishing wood and resilient flooring by performing a life cycle assessment. The LCA maps out environmental impacts that various processes have on a product level from cradle to grave. This includes evaluating all life cycle stages including: raw materials extraction and production, manufacturing, packaging and distribution, use and reuse, and end-of-life and recycling. Comparing similar scenarios such as floor refinishing and replacement, the LCA reveals how each performs across a range of environmental impact categories.

THE RESULTS: RENOVATION MAKES A DIFFERENCE

The LCA clearly shows that the floor renovation process uses significantly less renewable and non-renewable energy and has a much lower carbon footprint compared to floor replacement. Renovation generates up to 92% less CO₂* and up to 98% less energy consumption** than tearing up the old floor and installing a new one. The result serves as proof that floor refinishing can both reduce the impact on climate change and minimize resource use compared to producing and installing a new flooring.



The LCA evaluates the environmental impact of a product or system across every stage of its life cycle– from cradle to grave. This includes evaluating energy and resource use as well as emissions like CO₂. The number of times a floor can be refinished was not considered in the IVL study, nor aspects of maintenance that can prolong the life expectancy of the floors. However, it is expected that a typical floor can be refinished two to four times before it must be replaced by new flooring. The analysis and result represent one cycle. It means one re-installation of an existing floor or one refinishing of an existing floor.

* specific comparison scenario in the study about wood floors **

specific comparison scenario in the study about wood floors Visualizations are artist renderings designed to aid interpretation of the data and may not reflect exact numeric proportions. Refer to the source data for precise figures.



WOOD FLOORS

THE BENEFITS OF A RENOVATION

A wood floor can last for decades if maintained properly. The impact on our environment is considerably reduced by renovating a wood floor compared to installing a new one. When maintained properly, the time between renovations can also be greatly extended. To put it simply, the environmental and cost benefits attributed to renovating a wood floor are striking. In addition, modern techniques enable wood floors not just to be restored to their original beauty, but also to be completely redesigned in terms of colour, texture, sheen and protection level.

A properly maintained refinished wood floor will last longer and extend the time between renovations, as well as providing endless possibilities to bring your floor vision to life.

- Environmental benefits
- Endless design possibilities
- Extended lifetime

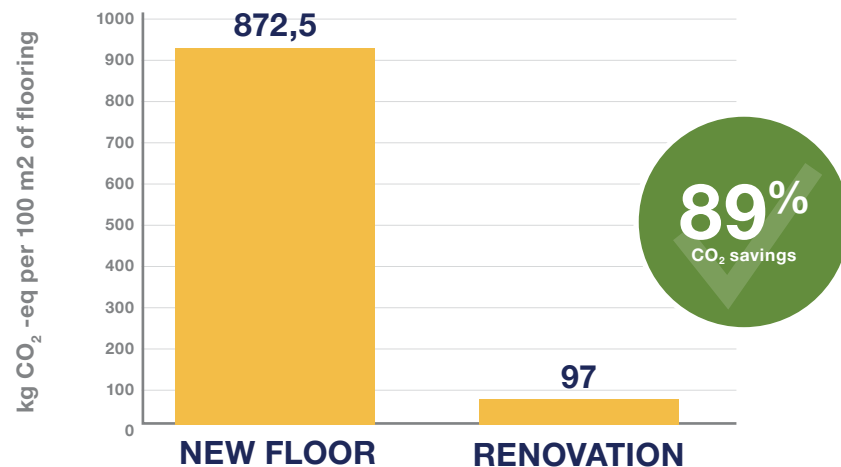
CONFIRMING EVIDENCE: IVL STUDY HIGHLIGHTS

The IVL study makes a clear case for the extensive environmental benefits to be gained by renovating existing floors compared to replacing them with new ones. Renovation contributes to both reduced CO₂ emissions and the use of primary energy resources, since renovating allows continued use of already available flooring material. However, if renovating is not possible, make sure to use a quality floor with long lifetime that enables renovation.

The Impact of Choosing Renovation Over Replacement

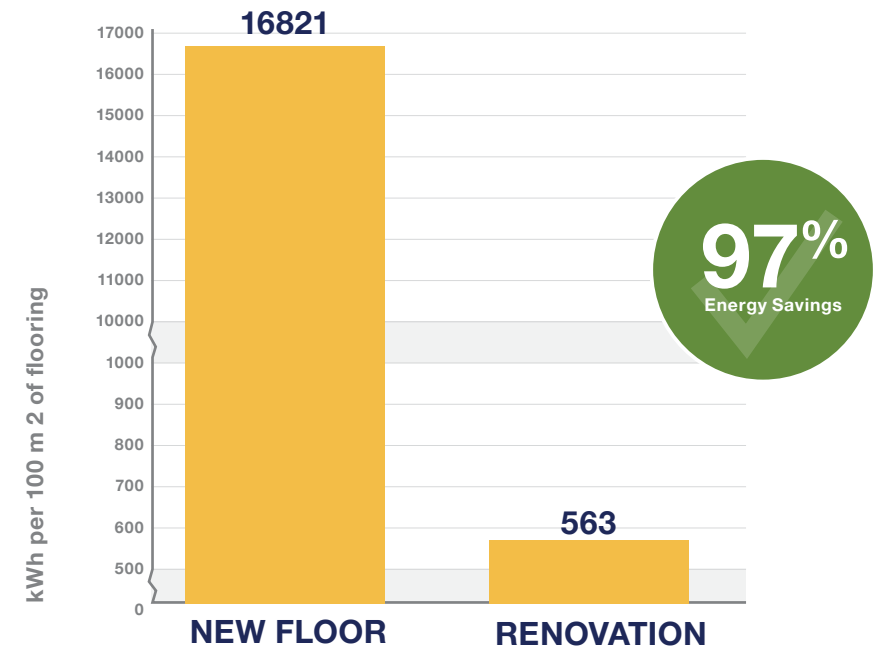
CO₂ EMISSIONS REDUCTION

The impact on global warming of a renovated wood floor is equivalent to 97 kg CO₂ per 100 m², compared to a newly installed floor, which has an average of 872,5 kg. This makes the carbon footprint eight times lower for a renovated floor. This assessment includes products used, electricity, consumables, waste treatment and transport.



ENERGY SAVINGS

The results show the use of energy resources can be significantly reduced when renovating since it allows a continued use of already available flooring materials. With a refinish, the total use of primary energy resources is 536 kWh for 100 m². This takes into account the production of raw materials and resources as well as the craftsman's travel. Compared to installing a new floor, where the energy use is a total of 16821 kWh for 100 m² on average, the savings are 97%.



*Data points may represent an average. Visualizations are artist renderings designed to aid interpretation of the data and may not reflect exact numeric proportions. Refer to the source data for precise figures.



RESILIENT FLOORS

MODERN METHODS FOR LASTING FLOORS

When resilient floors become worn or damaged, replacement is often viewed as the only option. Modern renovation techniques now offer a more effective alternative, enabling floors to be restored to their original condition while greatly extending their lifespan. Renovation helps reduce material consumption, saves time, and lowers overall environmental impact. With proper maintenance, the surface stays clean and free from contamination. Considering the significantly lower climate impact of renovation compared to replacement, combined with the many design possibilities available, opting to renew rather than replace is a compelling choice.

- Lower environmental impact
- Wide-ranging design options
- Extended lifetime

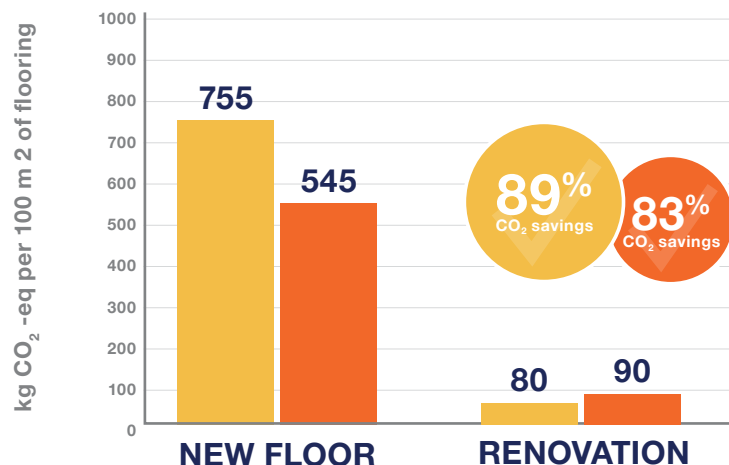
CONFIRMING EVIDENCE: IVL STUDY HIGHLIGHTS

The IVL study highlights the substantial environmental benefits to be gained from refinishing existing flooring rather than replacing it with a new floor. Refinishing contributes to reduced CO₂ emissions by an average of 86% for vinyl and linoleum. Also, the use of primary energy resources, both renewable and non-renewable, is drastically reduced since refinishing allows continued use of existing flooring material.

The Impact of Choosing Renovation Over Replacement

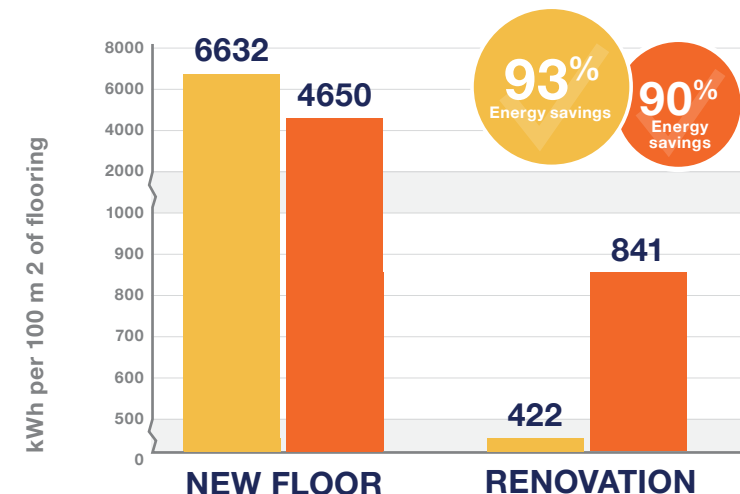
CO₂ EMISSIONS REDUCTION

The impact on global warming of a renovated resilient floor is equivalent to 80 kg CO₂ per 100 m² for vinyl, and of 90 kg for linoleum. Compared to a newly installed floor that uses an average of 755 kg (vinyl) or 545 kg (linoleum), this produces a carbon footprint that is around 9 times or 6 times lower for a refinished floor, respectively. The assessment included all products used, electricity, consumables, waste treatment and transport.



ENERGY SAVINGS

The results of the IVL study show that the use of energy resources can be significantly reduced as refinishing allows the continued use of already available flooring materials. With a refinish, the total use of primary energy resources is 422 kWh per 100 m² for vinyl and 481 for linoleum. This takes into consideration the production of raw materials and resources and trips made by the craftsman. Compared to installing a new vinyl floor, where the average energy use is a total of 6632 kWh per 100 m², the savings are 93%. With linoleum, the average energy consumption of installing a new floor is a total of 4650 kWh per 100 m², meaning that renovation can save around 90%.



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Saving Time and Cost

When you add it all up, renovation makes a significant difference in many ways. As Bona's internal calculations show, in addition to supporting the environment by reducing CO₂ emissions and use of energy resources, there are also cost advantages to be gained from renovating rather than replacing a floor.

Instead of traditional methods, which involve removal of the old floor, sanding of the subfloor, priming, levelling and finally installation and bonding of the floor, a recoating will take less than half the time. Furthermore, there is no need to polish a resilient floor. This results in savings, not only in downtime, but also to cost savings through reduced working hours.



BONA CALCULATIONS: WOOD FLOORS

When comparing costs for a renovated floor with a new installation, it is important to consider all actions involved. The square metre cost of new floor is only one part of an installation calculation, so to make a fair calculation comparison, you need to include labour costs for ripping out the existing floor, preparation of subfloor, removing and re-mounting skirting boards and so on. All in all, a renovation of a wood floor works out to be at least 40% less expensive compared to replacing it with a new floor.

BONA CALCULATIONS: RESILIENT FLOORS

The same cost savings apply to resilient floors when comparing the costs of measures that must be taken into account for both renovation and installation. In terms of resilient floors, the total cost is reduced by at least 41%. In addition, there is a time saving of around 60%, which means that the profitability for the contractor increases by an impressive 70%!





Taking Care of an Investment

LONG-TERM VALUE THROUGH RENOVATION

Seeing your floor as an investment helps ensure it receives the care it needs. Regular maintenance and renovation help secure long-term efficiency, supporting both durability and consistent performance year after year.

Modern Maintenance

EXTENDED LIFETIME OF A FLOOR

Wood floors are typically expected to last around 15 years before renewal or replacement becomes necessary. However, because a wood floor can be refinished multiple times, the total lifespan can extend to several decades. When viewed over the long term, the benefits of renovation are substantial. Modern maintenance and renovation technologies from Bona support this extended lifespan by reducing downtime, lowering costs, and enabling ongoing performance, with a renovation quality that sets the foundation for easier future maintenance. They also open the door to design updates, allowing you to adjust color, texture, and character over time while preserving the original floor.

MAINTENANCE MADE TO WORK FOR YOU

Regular maintenance plays an essential role in preserving wood and resilient floor performance over time. With Bona system, maintenance becomes more efficient and predictable, helping to prolong the life of the floor while simplifying day-to-day care. For resilient floors in particular, traditional strip-and-polish routines—often performed annually—can be replaced entirely by renewal and periodic recoating processes. These methods remove the need for aggressive stripping chemicals, reduce downtime and costs, and create a surface that is quicker and easier to clean. Over time, this maintenance model supports longer-lasting resilient floors, fewer interventions, and a more consistent appearance.

IMPROVED HYGIENIC PERFORMANCE

Renovation restores a uniform, joint-free surface, which supports easier and more consistent cleaning. Tests conducted in accordance with TRBA regulations show that surfaces treated with Bona Resilient Solution maintain low levels of surface contamination, including in areas that are typically difficult to access. Additional TRBA-compliant testing further verified that LVT floors recoated with Bona Resilient Solution showed significantly reduced contamination over an 8-week cycle, with joints effectively sealed to prevent residue collecting beneath the surface.





FROM WORN TO REVIVED

Dull or heavily used floors might seem like replacement is required, yet many can be renewed. A deep clean can revive tired floors affected by heavy traffic or residue build-up, restoring their freshness and appearance. For surfaces with more visible wear, light sanding and a new protective coating can bring back a beautifully renewed look.

A SMART WAY TO RENEW

Resilient floors that appear worn, dull, or damaged are often replaced, even when renewal is a viable option. With the Bona Recoating Treatment, the look and feel of a new floor can be achieved through a fast and effective process that restores its appearance and extends its life.



WOOD FLOORS

TREATING WOOD FLOORS

Bona offers several different treatments and maintenance programs depending on the floor type and your needs. From regular daily cleaning to a full-scale floor transformation, the Bona System will extend the floor’s lifespan and keep your floors beautiful and durable for a long time.

ASSESSMENT CRITERIA

Evaluating your floor’s condition helps identify the treatment it truly requires. An oil-waxed floor, for example, may look heavily worn because of dirt build-up, when in many cases a simple renewal of the surface layer is enough.

RESILIENT FLOORS

TREATING RESILIENT FLOORS

Regular cleaning is key to a better, longer-lasting floor. Over time and heavy wear, stubborn stains and residue build up, resulting in tired and dull surfaces. To restore the original lustre and prolong the life of floors, add a new protective layer to make the floor as good as new again.

ASSESSMENT CRITERIA

Understanding your floor’s condition helps determine the treatment it needs, whether it shows dullness, scratches, or deeper marks. Our streamlined process makes it possible to reach the ideal outcome, whether you’re reviving the surface or completely changing its colour and character.

Unique Floor Treatment Program

	CONDITION	DOMESTIC TREATMENT	COMMERCIAL TREATMENT	PUBLIC AREAS TREATMENT
REFRESH	Loose Dirt	1-2x /Week	3-5x /Week	1x /Day
	Bonded Dirt	1x /Week	1x /Week	2x /Week
	Care	2x /Month (Bimonthly)	1x /Month	1x /Week
REVIVE	Stubborn Stains	1x /Year	3-4x /Year	4-6x /Year
RECOAT	Light Scratches	1x /5-10 Years	1x /3-5 Years	1x /2-3 Years
REFINISH	Worn	1x /10 Years	1x /5 Years	1x /3 Years



Renovation

design and possibilities

Bring new life to the floor you already have. Bona's solutions make it easy to refresh and refine existing surfaces or to transform them into a bold, personalized expression. Whether you're enhancing a clean look or creating something entirely new, both wood and resilient floors can be renewed with character, style, and individuality.

RESTORED TO ITS FORMER BEAUTY

A worn floor can regain its original appearance through renovation, regardless of floor type. Dust-free sanding restores wood floors to bare wood, delivering the look and feel of a newly installed surface, while resilient floors are renewed through a comprehensive treatment program. For both wood and resilient floors, the renovation process reaches the entire surface, including hard-to-reach areas. Depending on the floor type, a final coat provides the protection and durability needed for everyday use. The result is a renewed floor with lasting performance, achieved through a more conscious approach and reduced environmental impact.



CREATE A NEW EXPRESSION

Renovation opens the door to creative freedom. From transforming a lacquered wood floor into a brushed, ebony-toned oiled surface or a clean white finish, to adding colors, signs, or symbols to resilient floors, the possibilities are extensive. For wood, brushing adds texture, toning introduces new contrasts, and your choice of sheen completes the look. With a full range of RAL/NCS colors, Bona Creative Chips, and the Bona Resilient Solution Colour Collection—developed with color psychologist Prof. Dr. Buether—every resilient floor design supports both aesthetic appeal and well-being.





WOOD FLOORS

TONING EFFECTS

From two-tone contrasts, to eye-catching, contemporary two-colour effects, the unique formula of Bona Oils, enables you to combine and contrast colours for endless creative possibilities.

TEXTURE

Bona Brush Technology enhances the natural character of wood by adding depth and texture to the surface. With the help of specially designed wire brushes, the softer wood tissue is removed, bringing out the grain and giving the floor a soft, organic feel with an authentic wood look.

GLOSS AND COLOUR

Whether it's a high shine surface or the look of untreated wood you want to achieve, Bona coatings enable you to create unique surfaces with lasting beauty.



Bona has a variety of case studies for wood and resilient floors that bring new life to worn, dull surfaces.



RESILIENT FLOORS

COLOUR WITH PURPOSE

Colour plays a key role in how spaces are experienced. Developed in collaboration with colour psychologist Prof. Dr. Buether, Bona's Resilient Solution Colour Collection reflects natural colour preferences linked to well-being and performance. From calm, understated tones to more expressive shades, resilient floors can be renewed with colour choices that enhance both atmosphere and function.

SIGNS, SYMBOLS & GRAPHICS

Resilient floors can do more than define a space—they can guide and communicate. Bona makes it easy to integrate signs, symbols, graphics, or game lines directly into the floor surface, improving orientation, safety, and visual impact while maintaining durability and easy maintenance.

CREATIVE CHIPS

Bona Creative Chips add depth, texture, and character to resilient floors. Applied from a subtle accent to full coverage, they create living, patterned surfaces with a unique visual expression—combining creative freedom with long-lasting performance.



Inspiration

from around the world

Bring your floor vision to life. Bona's solutions enable you to bring out a floor's unique character, whether you're looking to achieve a fresh minimalist look with white broad planks, a contemporary take on classic parquet, or a look that's as unique as you are.

WOOD FLOORS

WHAT A DIFFERENCE A DAY MAKES

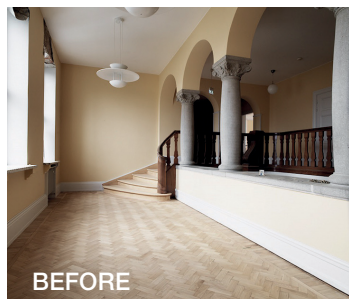
At a condominium in Newcastle Great Park the Bona Certified Craftsman -- Newcastle Floor Sanding -- restored an extremely worn and scratched floor to its original beautiful herringbone using classic primer topped with Bona Mega One.

A SLEEPING BEAUTY

A castle-like villa in an exclusive neighbourhood in Malmö, Sweden transformed its traditional worn herringbone into a stunning whitewashed floor using Bona Nordic Frost. The result created a light, Scandinavian feel, well suited for this fantastic space.



Newcastle Great Park Condominium Restored with Bona Mega One



Malmö Villa Restored with Bona Nordic Frost.

RESILIENT FLOORS

NEW LOOK TAKEN CARE OF

Over the years, the Spa and Health Center was starting to show wear and needed total renovation to preserve the tranquil design. But shutting down the facility was out of question due to the high demand from customers. At over 1,000 square meters, any opportunity to be more efficient with the renovation costs was needed.

READY FOR THE NEXT SHIFT

The linoleum floor was refinished to support a clean, durable environment without interrupting hospital operations. Avoiding full replacement meant less disruption, lower costs, and uninterrupted care where it matters most.



Spa and Health Center

Bona[®]

Passion for wood floors

Founded in 1919, Bona is a global, family-owned company spanning across Europe, North America, South America, Asia and Australia. We supply products and systems for installing, renovating, maintaining, and restoring premium floors including wood, tile, vinyl, rubber, and laminate. We are passionate about preserving the longevity and beauty of floors ensuring they can be cherished for generations to come.

Bona is led by third and fourth generations of the Edner, Forsberg, and Brask family and our head office is in Malmö, Sweden.



*Based on calculations in the IVL-report "Life cycle assessment of Bona floor refinishing", 2025.

** A flight from Stockholm to Lisbon emits 759kg CO2 emissions while the average CO2 savings of renovating are 775,5 kg;
a flight from Hamburg to Munich emits 155kg CO2 emissions while the average CO2 savings of renovating are 155,1 kg
(<https://flightemissionmap.org/#Stockholm/59.33,18.07/127/20000>)