HEALTHY LIVING
invisible but measurable

BAUWERK®
Parquet
Bauwerk’s ‘Healthy Living’ mark of distinction makes a significant contribution to your quality of life. Once you take a conscious decision in favour of healthy building materials, you have taken a big step towards personal well-being in your home.

**Guaranteed healthy living**

With the Sentinel Haus certification and the Cradle to Cradle® award, Bauwerk offers a unique health guarantee for home-owners and their families: Bauwerk products can be installed without hesitation, helping to create pleasant, healthy living interiors.

**Why this is important**

We spend 80 to 90 percent of our lives in closed rooms, breathing in 10 to 20 cubic metres of air per day. Although airtight building envelopes make sense in terms of energy, ventilation is so far reduced that harmful substances may collect from a variety of sources. Approved building products are therefore an absolute must if we want to ensure a healthy room atmosphere. Together with the Sentinel Haus Institut, Bauwerk has been testing its products since 2010.

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**GUARANTEED HEALTHY LIVING**

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**Harmful ambient air:**

This problem can be solved by choosing the right building products.

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**Uninsulated buildings**

(past):

Permeable building envelope*

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**Insulated buildings:**

Airtight building envelope* interior design with conventional materials

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**Insulated buildings:**

Airtight building envelope* interior design with reduced-emission materials

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*Building envelope = all exterior surfaces including facade, basement, roof, windows, doors*

Source: Sentinel Haus Institut
Is parquet healthy per se?  
No. Although wood is a natural, renewable raw material, the manufacture of parquet involves glues, varnishes and oils. All materials used by Bauwerk meet the highest standards and are regularly tested by independent institutions in different countries.

Innovative sound reduction  
Our ears perceive intrusive sounds or fast changes in sound levels as noise. Glued parquet substantially reduces footfall sounds. Bauwerk’s Silente technology is an innovative system solution that reduces footfall and impact sounds even further, an effect that is particularly sought-after in renovation projects.

Disturbing odours  
Smells that appear indoors and are perceived as unpleasant by the users can originate from very diverse sources. These sources include paint, varnish, wooden composites, adhesives and insulations, but also cleaning and care products. Talk to your floor installer about building materials. It is essential that the appropriate adhesives and healthy living cleaning and care products are used for installation and for use. Important for you: Bauwerk parquet is odourless and 100% healthy living. The living space can be immediately used after installation.

Invisible but measurable  
High health standards in homes are not reached by accident, they can be planned and measured. Aside from pollutant-free ambient air and pleasant acoustics, parquet has further plus points: there is no static charge, it feels warm under cold feet and it remains pleasantly cool on hot summer days.

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**Noise thermometer**  
*Everyday sounds*

| Source: www.ald-laerm.de |

- **Jet engines**: 120 dB(A)
- **Power saws**: 110 dB(A)
- **Power lawn-mowers**: 100 dB(A)
- **Parquet glued (+/- 62 dB)**
- **Laminate, floating installation (+/- 75 dB)**
- **Rain**: 80 dB(A)
- **Silence**: 10 dB(A)
HEALTHY LIVING

involves many aspects

we spend
80 to 90%
of our lives in closed rooms

only 28%
of all people air their rooms properly in winter

we take an average of
Ø 20,000
breaths of air a day

1/3
of all Europeans have asthma or allergies
Humans and parquet floors feel most comfortable in the same climatic conditions: the temperature should be between 20° and 22°C and air humidity between 30 to 70%. These are the optimum conditions to ensure your well-being in your home. Wood tangibly improves the perceptible ambient climate.

› The optimum room temperature is 20° to 22°C.
› Relative humidity should not decline below 30%, even in winter.
› In the winter months, or the heating period, we recommend airing your flat intensively for a short period of time. 5-15 minutes are sufficient. The lower the external temperature, the shorter the airing.
› We recommend installing additional sources of humidity during the heating period, such as indoor plants or humidifiers.
Bauwerk parquet flooring has been tested by independent, qualified institutes to determine its health properties and has successfully passed the strict Eco-Institut criteria, including those applying to building assessments by the Sentinel Haus Institut, Minergie Eco, DGNB or Leed. The thresholds are significantly stricter and more comprehensive than their counterparts required by law, or the quality certifications for other types of flooring as can be seen in the following table:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>DIBt/AgBB 2015*</th>
<th>Eco-INSTITUT label</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOC after 28 days</td>
<td>1000 µg/m³</td>
<td>300 µg/m³</td>
</tr>
<tr>
<td>Formaldehyde after 28 days</td>
<td>120 µg/m³</td>
<td>36 µg/m³</td>
</tr>
<tr>
<td>Ammonia</td>
<td>149 µg/m³</td>
<td>100 µg/m³</td>
</tr>
<tr>
<td>Mutagenic substances and reproductive toxins</td>
<td>not assessed</td>
<td>1 µg/m³ per single value</td>
</tr>
<tr>
<td>Material tests</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Odour test</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Composition analyses (AOX, EOX, phthalates, plasticisers, substitute plasticisers, organic tin compounds)</td>
<td>not assessed</td>
<td>yes, with thresholds</td>
</tr>
</tbody>
</table>

*Switzerland is following the European standards.

The online database of the Sentinel Haus Institut provides an overview of all emission-tested building materials as well as information regarding their health properties (www.sentinel-haus.eu).
Bauwerk is the only wooden floor manufacturer to have been awarded the Cradle to Cradle Certified™ Gold for all Silente products. On top of this, Bauwerk Parquet is the only company worldwide with an entire Cradle to Cradle®-certified production site. 61% of all Bauwerk products are manufactured in St.Margrethen, Switzerland.

**Five-stage Cradle to Cradle Certified™ Scorecard**

As the name implies, the Cradle to Cradle Certified™ certificate does not begin with the finished product. The comprehensive certification process involves five areas: material health, material reutilisation, energy, water and social responsibility. Depending on the results in these defined areas, certification is awarded in the categories ‘basic’, ‘bronze’, ‘silver’, ‘gold’ and ‘platinum’.

Cradle to Cradle® thus goes a lot deeper than most other certifications. Accredited experts assess the holistic production process, composition, use and reutilisation of all production components. EPEA Switzerland acts as knowledge trustee in the complex certification process, assessing suppliers’ compositions along the entire procurement chain down to the molecular level.

Hence Bauwerk offers architects and home builders more than versatile modern parquet flooring. Bauwerk’s Cradle to Cradle Certified™-products guarantee top recoverability, security and the safe knowledge that they contribute to the health of humankind and nature alike.
We care for
MAN AND NATURE

Anyone who works with wood develops a special feel for nature. We also care about people, be they our employees, suppliers or clients. Bauwerk Parkett generally seeks win-win situations for people, the environment and the economy, because they are a model for the future. With the motto of “Symbiosis between humans and nature”, Bauwerk is committed to improvements in environmental responsibility, healthy living and social ethics. Bauwerk Parkett has developed a roadmap with initiatives for the coming years based on the GRI standard for sustainability reporting. This required setting specific goals and metrics for all business processes. Until 2021, particular attention will be devoted to the following aspects:

› *Emissions and climate change*: Only processing wood from sustainable forestry sources and reducing emissions into the natural basic content of the raw material.


› *Ecological and sustainable supplier management*: Selecting suppliers according to sustainability criteria, working with suppliers according to principles of sustainable and fair business relations with social responsibility.

› *Healthy and satisfied employees*: Offer employees a safe workplace and be a reliable, fair and responsible partner for them.

› *Healthy living*: making high-quality parquet floors as well as accessories that are healthy, i.e. natural, quiet and controlled.