The *new generation* of functional flooring.

Raised flooring with sound and practical solutions for ventilation, installations, acoustics and outdoor environments.
The new generation of functional flooring.
SubFloor is an entirely new generation of functional flooring. Our concept is the culmination of all the knowledge and experience we have gained from 50 years in the flooring industry – including 30 years as specialists in raised flooring.

This has taken time, effort and expertise. And it’s been wonderfully stimulating! Our driving force lies in the company’s history and lives on through all the skilled and talented employees with us today. We have always had our sights set on the future.

We want to be the building trade’s obvious partner for functional flooring. With SubFloor’s new features, I see opportunities to further strengthen our relationship and continue to develop together for a long time to come.

Our development process has of course also involved external expertise to bring us closer to all our different customer groups and understand their needs and challenges. We are now addressing these with new features that offer smart functionality and ease of use. Installation, work environment, material selection, acoustics and load are areas that have received particular attention.

My hope is that we at Prästängen Byggsystem will once again exceed your expectations.

Jens Ljungkvist
CEO Prästängen Byggsystem
SubFloor is an entire family of modern functional flooring

Imagine a raised floor covering an area of 5 million square metres. That's more than 700 football pitches. No wonder that we at Prästängen Byggsystem have become specialists in functional flooring.

In developing SubFloor, we have taken all the experience and knowledge accumulated through 50 years of investing ourselves in flooring and related products. We have scrutinised every detail of its design and added new, smart solutions for both form and material selection. Discover the many advantages of raised flooring and its sound and practical functionality.
Our promise is about simplicity, functionality and quality

In developing SubFloor – the new generation of functional flooring – we have weighed the needs of several different parties. Every detail of its design has been examined with a critical eye. Extensive testing has been performed. Whether you’re a fitter or craftsman, a big or a small construction company, retailer, developer, project manager, designer or architect, we meet your needs.

SubFloor is a range that exceeds even the highest of expectations.

Why you should choose SubFloor:

- Quick, quiet and clean installation
- Alternative attachment methods – drill, glue or nail
- Adapted to high requirements for load
- Cost-effective solutions
- Good work environment for craftsmen and fitters
- Acoustic flooring with impact sound reduction up to 28 dB
- Tested at SP
- Freedom of choice between different floor materials
- Long experience of flooring systems
**Joists** for a beautifully even floor

Many surfaces are uneven because of rough concrete and subsidence. When you are doing renovations, SubFloor provides a simple solution to these challenges. A dry and quick installation with laser precision will lay your floor at the right level and horizontally perfect.

A major advantage of raised flooring is that you can get it as nice and even as you want. The air gap that is formed is also a perfect space to draw and conceal installations.

The smart solution is that the floor joists are held up with adjustable screws that provide the exact height to eliminate any unevenness and differences in level that the surface may have. On top of the joists comes particle board flooring, and you are then free to choose exactly what floor material you have planned for the room. Parquet, laminate and plastic and, together with plaster, tiles as well.

We have put a lot of work into developing a durable material for the screws, which means the raised floor can withstand high loads.

**This has several positive effects:**
- Joists with few attachment points
- Quick installation
- Low cost of labour

**Choice of attachment method:**
- SubFloor’s own newly developed glue
- Steel nails
- Attachment with nail plugs or wood screws

The most suitable method depends on the quality of the surface and on the size of the floor area to be raised. Glue and steel nails provide quick and convenient installation.

**Plenty of space for installations**
The air gap created between the surface and SubFloor’s joists allows room for installations such as water, sewage, electricity, data and ventilation.
SubFloor can be installed at the levels 35 – 337 mm
The screw is the superstar in our design

Much of the development behind SubFloor is based on our newly developed screw. Everything from its new, higher load material to its flexibility of accessories gives us a screw that meets the requirements and opportunities of the future.

Attaching the screws to the surface:

- **Glue**
  - Apply SubFloor’s glue between the surface and screw foot.

- **Nail**
  - Attach nails in the plate on the screw foot.

- **Screw/plug (with foot)**
  - Attachment in the screw foot with wood screw or nail plug.

- **Screw/plug (without foot)**
  - Drill through the screw. Attachment in the screw with wood screw or nail plug.
The plastic in the screw is an extremely durable material that gives the whole design superb load tolerance.

The same screw is used both indoors and outdoors.

Smart snap function in the lower part of the screw makes it easy to put the support foot in place.

Support foot with multiple attachment options for quick installation. Glue, drill or nail.

The foot is designed to minimise transmission of vibrations to the joist frame. Regardless of load.
One solution for every floor type

Simple joisting
The most common type of raised joisting is achieved using plastic screws – with or without a foot. On top come particle board flooring, rag board (or similar) and a free choice of floor material.

Acoustic flooring
When the floor design has to meet acoustic requirements, you exchange the foot for our unique acoustic foot with dampening. The design is otherwise the same as for simple raised flooring (see above).

Ventilated flooring
In the space formed between the particle board flooring and concrete surface, underpressure is created by means of an ingenious ventilation system that diverts moisture, emissions, odours and radon in a simple and effective way.

Raising with steel joists
An alternative to our classic wooden joists. Steel joists work well with all floor types – simple joisting, acoustic flooring and ventilated flooring.

Outdoor flooring
A complete joist system for outdoor environments. Pressure-treated joists with pre-mounted bushing for our adjustment screws. The floor is installed on a solid surface and is simply adjusted to the right level by means of our screws. The c/c distance of the joists is regulated with reference to the decking desired.
When can SubFloor be used?

- HOUSES
- SPORT/ACTIVITY FLOORING
- OFFICE PREMISES
- APARTMENTS
- PUBLIC ENVIRONMENTS
- TERRACES/OUTDOOR FLOORING
A healthy house with ventilated flooring

SubFloor’s joist design creates an air gap to the surface. This design provides very good opportunities for ventilation both in older and newly built houses.

Many districts in our cities are characterised by the construction carried out in the 1960s and 1970s. The need for new housing and municipal buildings was huge. New, quicker and untested construction methods were introduced without any knowledge of the long-term consequences. It is now clear today that houses, preschools and schools were actually guinea pigs when their concrete slabs were cast directly on the ground with neither drainage nor insulation. Later, some of the houses were affected by problems with moisture, mould and odours that caused an unhealthy indoor environment.

Ventilated flooring from SubFloor helps a house become healthy again. Floors are often replaced for preventive reasons, for example before a sale or when renovating other parts of the house. Whatever the reason, it is a sound investment for the future.

Taking control of air flow

With the space that SubFloor creates between the concrete surface and the joist, the ingenious solution with air intake and exhaust fan can give rise to underpressure in the floor. The air flow is then distributed by means of cleverly placed air ducts.

The design diverts, moisture, odours and emissions that pollute indoor air. The same solution can also have an effect when dealing with high radon levels in a building.
The principle of SubFloor’s floor ventilation can also be applied to basement walls exposed to moisture.

**Quicker restoration after water damage**

More and more people are choosing a mechanically ventilated floor in consultation with their insurance company, following water damage, for example. This allows them to move back into their house a short time after remediation and there is no need to wait until all the moisture is gone. The good ventilation that is created also continues to dry up the base slab after you have laid your new floor and started living in the house again.

**Choose SubFloor’s floor ventilation in the event of:**

- Contributory soil moisture
- Residual moisture following water damage
- Odours/emissions following mould damage or moisture-damaged plaster/glue
- Soil radon

Read more about all the advantages of raised flooring from SubFloor on pages 6-9.
Newly developed floor vent with a pure style that suits all environments.

Flexible air distribution profile simplifies installation.
SubFloor’s effective acoustic flooring

The idea is simple. SubFloor acoustic flooring – adapted and built exactly to your requirements and needs – reduces the impact sound level when someone walks on the floor in another room or on another floor in the building. The sound of conversations, television and radio can also be dampened when the right choice of floor improves airborne sound insulation.

Requirements and needs vary in multi-apartment buildings, offices, preschools, schools or in buildings with other activities, depending on how sound occurs in rooms and surfaces.

SubFloor’s acoustic flooring has been developed together with leading experts and means that the screw is used together with a unique acoustic foot. The foot has dual-action dampening that reduces impact sound up to 28 dB without compromising stability.

However, to ensure compliance with the building’s requirements, it is important to take into account all conditions – the interplay of the floors in the design with the building’s structure and layout. Striking the right balance involves meeting the requirements at each point. If a floor has too much give, it feels uncomfortably soft to walk on.

We collaborate with material experts who ensure that we exceed the requirements on the sound environment by a good margin.
IMPACT SOUND
Sound that arises and is transmitted down into the floor to the storey below.

REVERBERANT SOUND
Sound that arises above a floor and that bounces up in the same room as the sound arises.

AIRBORNE SOUND
Sound that arises directly in the air in a room, from a loudspeaker or ordinary speech, for example.

FLANKING TRANSMISSION
Arises when sound is transmitted to another room in a way other than directly through the separating wall.
ACOUSTIC FLOORING

Large illustration of ideas for how the solution works with acoustic flooring, bathroom modules, etc.
The system provides effective impact sound reduction with a quick attachment method.

Partition walls are placed directly on the particle board.

You can always contact us at SubFloor for tips, advice and technical support.
Outside is the new inside!

We also want our terraces, patios, balconies and verandas to be comfortable and stylish! Outdoor flooring from SubFloor is the perfect choice when you want a beautiful new raised floor outdoors.

SubFloor is used where some type of surface already exists – such as garden paving slabs, asphalt, concrete slabs, roofing board or roofing plate. Unevenness and any previous wear disappears. Whatever the conditions, SubFloor’s outdoor flooring will feel completely new and stable.

The pressure-treated joists are already fully prepared upon delivery with pre-drilled holes and pre-threaded plastic sleeves that can withstand UV radiation. This contributes towards a quicker and easier installation.

The solution is made up of three components:

- The support plate
- The screw
- The joist

Areas of use:
- Terraces
- Outdoor cafés
- Patios
- Balconies
- Wooden decks
- Conservatories

Surfaces:
- Board
- Concrete
- Plate
- Asphalt
- Stone slabs
- Stone/rock
We are well acquainted with the varying conditions of different projects. Call us and we will help you!

This is what it looks like
The system adjusts the level of uneven surfaces quickly and simply.

The same screw is used for both indoor and outdoor installations.
SubFloor contributes to active environmental work

Minimising environmental impact has been an important starting point in both the development and manufacturing of SubFloor.

All our suppliers operate in Sweden, most of them in our own region. We have also chosen to place our central warehouse close to production. The goal is to reduce the number of long transports.

All wood materials in SubFloor come from PEFC certified sawmills and suppliers. Swedish PEFC’s forestry standard aims to develop economically sustainable and valuable forest production, biological diversity and safeguard cultural, social and aesthetic values.
SubFloor’s product range is assessed by:

SP
The entire SubFloor system has been tested and is still tested at the Technical Research Institute of Sweden (SP/Rise), and we receive advance notification about both the load tolerance and acoustic reduction of the flooring system.

Byggvarubedömningen
Sweden’s largest property owners and developers have joined forces to produce a standard for the environmental assessment of construction goods.

SundaHus Environmental Data
A system for health and environmental assessment of products in the construction and property industry.

BASTA
- The system has been developed in collaboration between stakeholders in the construction sector and aims to phase out substances that have particularly hazardous properties from construction goods. The requirements are in line with the Swedish Chemicals Agency’s regulations, Sweden’s national environmental objectives and the European chemicals legislation REACH.

Patent
Prästängen Byggsystem has applied for patent and design protection for SubFloor. At present (December 2016), this process is pending.

Quieter and cleaner work environment
SubFloor is the new generation of functional flooring from Prästängen Byggsystem. In developing the products, an important factor has been a better work environment for craftsmen and fitters.

SubFloor can withstand a high load, which means fewer holes need to drilled to attach it in the concrete surface. This provides both a quieter and a cleaner work environment. And the option to attach the joisting in the surface using a specially developed glue means that the work is also convenient to carry out over very large floor areas.
## List of articles

<table>
<thead>
<tr>
<th>ART.NO</th>
<th>PRODUCT</th>
<th>PACKAGING</th>
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<tbody>
<tr>
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See [subfloor.se](http://subfloor.se) for current installation instructions, checklists, design tips, and more.

---

26 • SubFloor System
Welcome to Prästängen Byggsystem!

Contact us if you have questions about our products and services. All our employees have extensive experience and our knowledge is constantly updated to enable you to choose the solution that best suits your specific needs.

Phone or fax!
Switchboard 0500 – 46 98 60
Fax: 0500 – 48 97 95

Write!
support@prastangen.se
offert@prastangen.se
order@prastangen.se
ekonomi@prastangen.se

Postal address: Prästängen Byggsystem,
Kylarvägen 7, 541 34 Skövde

Visit us for a demonstration!
The different types of functional flooring in the SubFloor concept are installed at our office in Skövde, clearly demonstrating the interplay between design and smart details.

Bookmark www.prastangen.se in your browser!
More information about Prästängen and SubFloor is available on our website www.prastangen.se.

Retailers
Private customers or construction service companies purchase our products through one of our retailers. Find your nearest retailer on our website www.prastangen.se.
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