

PREFAB SUSTAINABLE PARTITION WALLS



Cees Faay

FAAY 50 years of sustainability

Cees Faay, the spiritual father of our sustainable prefab climate wall system, was way ahead of his time. When he devised a new wall system 50 years ago, no one was thinking about sustainability and circularity. Let alone that anyone knew what 'biobased' meant. And yet he was convinced of the advantages of prefabrication and the use of natural raw materials.

50 years later, climate change and high energy prices are at the top of the agenda and FAAY is more relevant than ever.



BIOBASED

Flax, biobased, renewable raw material. High CO₂ absorption

FAAY Vianen produces and sells partition walls using flax, an inexhaustible raw material that is renewable, reusable and environmentally friendly (biobased). During cultivation, flax absorbs CO₂ and converts it into oxygen. One hectare of flax stores as much CO₂ in 6 months as one hectare of forest in one year. Building with flax is sustainable and diverse. And applied in the environmentally friendly FAAY wall, it contributes to an optimal and healthy indoor climate with high comfort. Moreover, a FAAY wall has a lifespan of up to 100 years, is easily reusable and stores more than 580 kg of CO₂ per m³ of wall.



LOCAL

Local crop, Production and distribution. Less carbon emissions

For many building products, the raw materials have to come from afar. This does not apply to the raw materials of FAAY wall panels. Flax is an arable crop that grows excellently on the clay soils of the Netherlands, Belgium and northern France. Local cultivation and production means less transport and therefore less CO₂ emissions. In addition, all prefab panels are made in and delivered from our factory in Vianen and delivered from there. Environmental impact due to transport is also kept to a minimum as a result.



MODULAR

Prefab, flexible, reusable, easily installed, life cycle proof

FAAY prefab walls Faay Walls are constructed from standard 40 cm wide panels. Provided they are not glued, the panels can be dismantled and reused. In this way the panels remain movable in order to be able to (continue to) flexibly (re) arrange a building. As a result, a building remains life-cycle-proof. Because each element is standard equipped with two cable shafts for the installation of electricity and/or data communication cables, it can be reused in a different location. The result of reuse is less transport, labor and waste.



CIRCULAIR

Easy to recycle and re-use

All unfinished FAAY partition walls are 'green'. We use wood, flax and plaster as a basis: inexhaustible, environmentally friendly biobased materials. Our production process is also ecological: we are certified for ISO 14001 (environmental effects), ISO 9001 (quality management), KOMO, FSC and PEFC. In addition, our walls have a long lifespan and can easily be reused and recycled. The environmental impact of our products is transparent and determined in the so-called Life Cycle Assessment (LCA).

Flax as a biobased building material

Flax is a beautiful material for ecological construction. When cultivated, the soil is protected against erosion and biodiversity is stimulated. Water and energy are used economically in the production, processing, maintenance and recycling of this material. In addition, CO₂ is absorbed. Flax grows with few fertilizers and does not undergo chemical treatments. After harvest, flax leaves a soil on which no weeds grow. It therefore adorns the landscape in a healthy way.



Flax absorbs CO₂

Reducing CO₂ emissions can simply be done by saving energy. By building airtight, using insulating, ventilating correctly and choosing renewable energy such as solar panels or a solar boiler, you reduce the consumption of gas and electricity in buildings.

Even better is the use of materials environmentally friendly and healthy materials in

buildings. Renewable raw materials such as wood, reed, straw, but also flax and hemp absorb CO₂ from the air during their growth. Flax needs hardly any pesticides and a little water, all of which benefits the environment. For example, by using flax as a raw material for building materials, CO₂ can be captured in a building. As a result, it has a positive effect on the greenhouse gas.

If the building, in which 'bio-based' materials are processed, is demolished, the materials can be reused (and the CO₂ is stored) or they are broken down in nature (and the CO₂ is released with a delay of 60, 100 or more years).



« A FAAY PARTITION WALL STORES MORE THAN 580 KG CO₂ PER M³

Certification

The wall panels VP54 and VP70 are proof that FAAY attaches great importance to sustainability.

Our efforts in the field of sustainability have already resulted in many great rewards in the form of various (inter)national recognitions and certificates. Think of ISO 14001/environmental effects and ISO 9001/quality management, KOMO, FSC® and PEFC.



Breeam

As a building owner, BREEAM certification provides you with a financial advantage and lower building depreciation. As a contractor or assembly company, a project with a BREEAM requirement can raise many questions. Your choice of product affects parts of the BREEAM points system. With BREEAM you can earn points for the various (building) aspects. The final score is divided into five gradations (Pass, Good, Very Good, Excellent and Outstanding). FAAY is happy to help you with questions about the application of sustainable walls in a BREEAM-project

FAAY, Sustainable prefab partition walls

FAAY makes robust, screw-proof walls with qualities. All unfinished FAAY partition walls are 'sustainable'. We use wood, flax and plaster for our product: inexhaustible, environmentally friendly, biobased materials.

Both the VP54 and the VP70 are environmentally friendly floor-to-ceiling partitions consisting of a solid core of flax shives with plasterboard on both sides. The local cultivation of flax and the local production of the walls mean less transport and therefore less CO₂ emissions. FAAY's environmentally friendly prefab walls are a modular system.

The panels are, if not glued, dismantlable and reusable. The result of reuse is less transport, labor and waste. FAAY is the first wall manufacturer in the Netherlands with a take-back option for the circular (flax) core wall.



↑ Many education and healthcare institutions use Faay products, partly because of the excellent sound and fire resistance quality.

VP54 and VP70 partition walls

Composition

The walls VP54 and VP70 consist of a solid core of flax shives with plasterboard on both sides. Style and framework, insulation and final cladding are combined in one panel. Due to the top layer of plaster, any finish is possible. The walls can also be finished ex-works with, for example, vinyl or foil. All this offers many possibilities in new construction, renovation and transformation. for retail,

Fire resistance

The fire resistance of the partition walls is tested by Efectis. The VP54 (54 mm thick) is fire resistant for 30 minutes and the VP70 (70 mm thick) 45 minutes.

Sound insulation

The great thing about FAAY's products is that they are all naturally soundproof. Both the VP54 and the VP70 walls have high sound insulation. As a result, these partition walls are ideal for, for example, redesigning homes and offices.

Sound insulation VP54::
30 dB (Rw) 28 dB (DnTak)
Sound insulation VP70:
33 dB (Rw) 32 dB (DnTak)

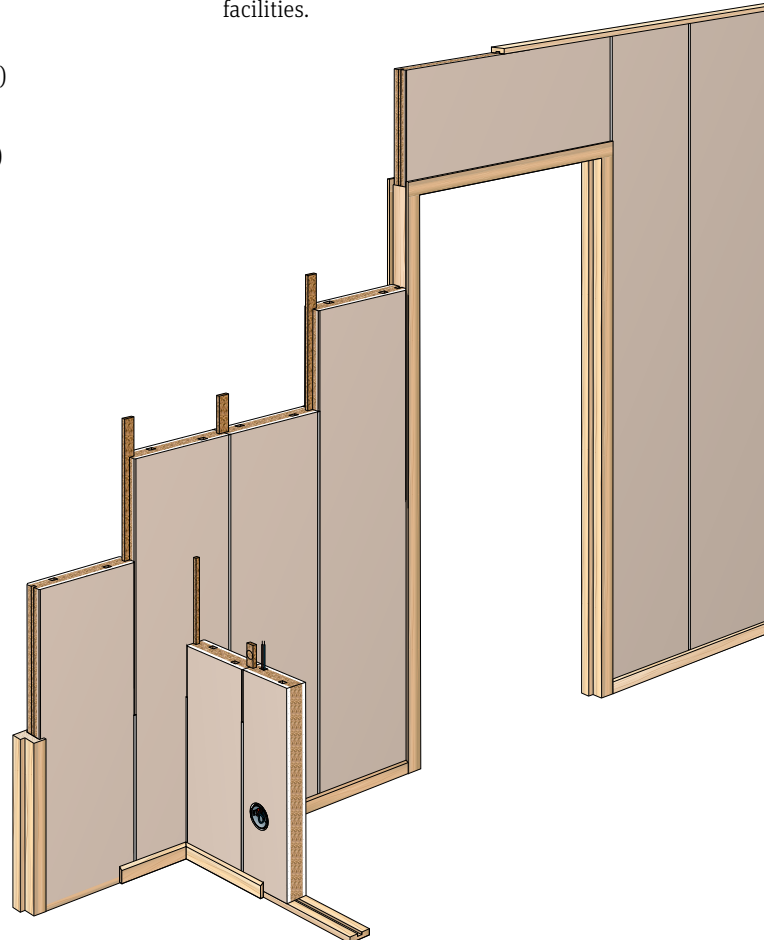
Screw tightness

The solid core of FAAY partition walls provides a remarkably high nail and screw strength of 100 kg when using a chipboard screw and up to 120 kg when using a coach screw without a plug.

The nail and screw resistance also applies to the entire surface. This saves assembly time and material costs. And it offers optimum layout freedom. Whether it concerns hanging a hundred paintings, a heavy sink, a large heating system or an entire kitchen unit, everything is possible. Without extra facilities.

Product features

- most sustainable wall in Europe
- little waste
- flexible and circular
- easy assembly
- fast build time
- impact and screw resistant over the entire surface
- various lengths
- material calculation in net m²
- built-in pipe shafts
- no pallets during delivery
- fire-resistant, sound-resistant, thermally insulating
- for new construction, renovation and transformation





Quickly assembled

The ease with which it is possible to build with FAAY wall panels is a real advantage. The panels are, in fact, final cladding, insulation filling and studs and battens in one. The wall consists of a solid core with plasterboard on both sides.

Style and framework, insulation and final cladding are combined in one panel. And due to the solid core of flax shives, installing a timber back panel is not necessary. The panels are, if not glued, removable and reusable. In this way the panels remain movable in order to be able to (re)arrange a building flexibly.

As a result, a building remains life-cycle resistant.

Assembly is very simple.

Scan the QR for the instructional video.



Logistics

By making relatively smaller, even more manageable packages in the factory and delivering them to the construction site as close as possible to the mounting location, FAAY increases the efficiency on the construction site. In addition, FAAY also supplies floor-to-ceiling: the length of the panels is supplied tailored to the height of the floor. For example, there is less waste due to 6 different lengths. Just-in-time delivery reduces the risk of damage on an overcrowded construction site.

FAAY delivers the partition walls on iron (slippers) instead of on pallets. This means that less space is required on the construction site and that there is no red tape involved.



↑ *Frame panels can be built into the partition wall without any problems.*



↑ *Wall and frame panel easily assembled.*



↑ *Easy re-design of office buildings.*



Application of Faay in renovation and transformation

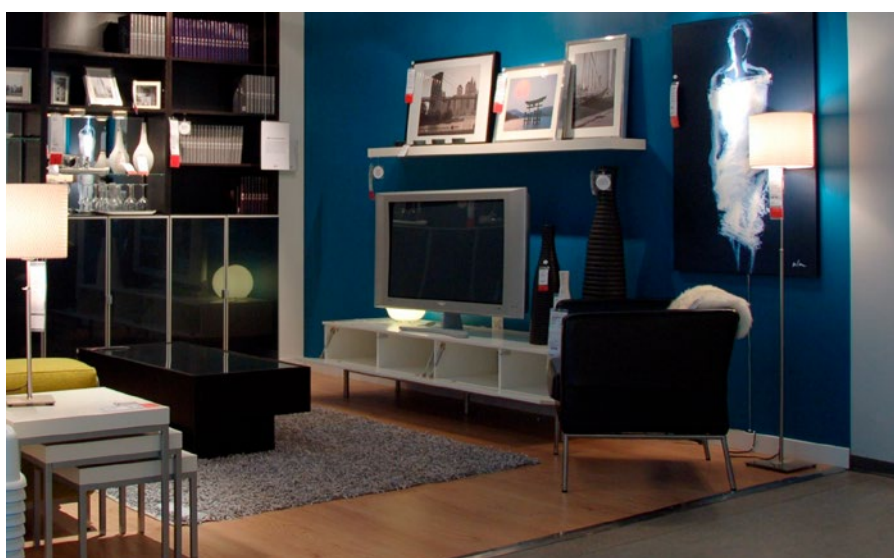
In office building transformations, floors are not always designed for the weight of stone walls. Due to their relatively light weight, FAAY partition walls are ideally suited for this.

FAAY partition walls are very popular. They are used worldwide in renovation, transformation and new construction. In all conceivable building projects: homes, holiday homes, schools, student complexes, offices, shops, showrooms, warehouses, banks, healthcare institutions, hotels, and so on! No wonder, because our wall systems are unique.

Application in retail

Shops regularly need to adjust their interior. Faay flexible prefab wall elements are easy to install, move and re-use. In retail, the VP54 and VP70 are popular. The Faay prefab walls take on average 50% less time to install than other interior wall products, thus saving considerable labour costs and time. Also, because the walls can be re-used over and over again, the investment is minimal and very sustainable. Furthermore, these panels have built-in pipe shafts. Very useful for example for the integration of lighting systems.

A shop renovation also puts pressure on turnover. By using the Faay quick install prefab wall system, a store or showroom could preferably remain open or be operational again as soon as possible. FAAY products are quickly available and can be installed in dry construction. As a result your investment costs in materials and labour and loss of turnover are kept to a minimum, yet you are using a very sustainable product!



↑ Ikea is a main customer of Faay partition walls.

An aerial photograph of a dense evergreen forest. The trees are lush green, and a soft mist or fog hangs between the canopy. A faint rainbow is visible on the right side of the image, adding a magical touch. The overall scene is serene and natural.

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