

Indoor Climate Wall (HV70)

breathing 'green' wall for healthier indoor climate



inexhaustible
raw materials



fire-resistant



easy to fit



sound
insulating



screw proof



thermally
insulating



dubo



Healthier comfort with Indoor Climate Wall

Care for man and the environment is not a fad, it is a necessity. Faay Vianen has been supplying environmentally friendly construction products for a healthy living and work environment for decades. We constantly look for ways to improve our products and that is how the Indoor Climate Wall came about: a breathing 'green' partition or retention wall for a healthier indoor climate.



Everyone wants to breathe healthy air and at the same time conserve energy. However, the two rarely go hand in hand. Energy conserving constructions are generally vapour proof, as a result of which insufficient fresh air gets in. Fresh air involves opening windows for ventilation, which has a negative impact on the temperature inside. The Indoor Climate Wall changes all of this. It not only ensures that the air is healthy but also conserves energy!



Breathing wall: better CO₂ value

Thanks to its vapour open construction, the Indoor Climate Wall is in fact a breathing wall. It consists of a panel with a support structure made of fibreboard, to which a natural, breathing finishing layer is applied, which may consist of loam stucco, lime plaster, decorative plaster or wallpaper (in any desired colour). Thanks to the wall's special construction, the air quality improves. Exhaled air and moisture produced by perspiration, cooking and showering will no longer linger in the room, but disappear via the Indoor Climate Wall. The result: healthier indoor air with a lower CO₂-value.

'A HEALTHY, PLEASANT INDOOR CLIMATE PREVENTS COMPLAINTS AND STIMULATES WELL-BEING.'

The Indoor Climate Wall is the perfect solution for airtight buildings as it is compulsory to make provisions to regulate the indoor climate in these. The Indoor Climate Wall is perfect for this. The wall offers guaranteed air improvements. On top of that it looks good in your interior!

Thermal and acoustic insulation

The Indoor Climate Wall not only ensures that the air is healthier, but also provides optimum insulation. Thermal as well as acoustic. The Indoor Climate Wall improves the indoor temperature as it provides excellent protection against outside cold. If you opt for a loam stucco finish, then the wall will also protect against outside heat.

A loam stucco finish furthermore offers the possibility of built-in wall heating. The Indoor Climate Wall also helps improve the sound quality in a room. Its acoustic insulation value reduces the resonance in the room and furthermore reduces noise from outside.

Quick and easy to fit

The Indoor Climate Wall is an ecological dry-build solution. It is available as a partition wall as well as a retention wall. Thanks to the prefab system, the Indoor Climate Wall is just as quick and easy to fit as all other Faay walls. The Indoor Climate Wall has a tongue and groove joint and guide battens, in standard sizes. Each type of finish can be applied in dry build, thanks to our prefab concept.

If you opt for a lime plaster, decorative plaster or wall paper finish, the panels will be glued together. In the case of a loam stucco finish it is not necessary to glue them together as mesh reinforcement (made from

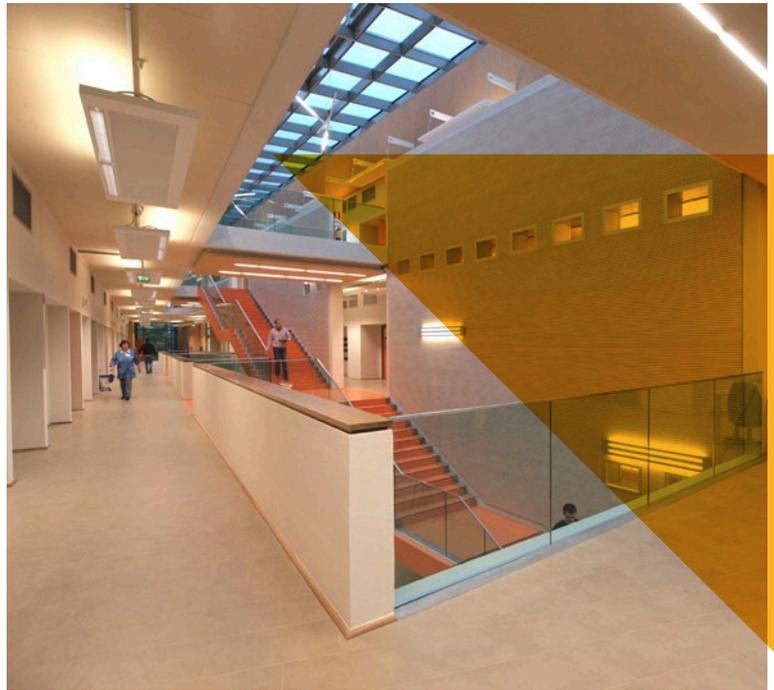
flax) will be used. Loam stucco can be applied in various thicknesses, ranging from 5 mm to 2 cm. The thicker the loam stucco layer, the better the humidity regulation.

Ideal for use in schools, care institutions and homes

The Indoor Climate Wall is the perfect solution for schools, health care institutions and homes.

The advantages:

- improved air quality and therefore better concentration, improved performance and less chance of germs spreading.
- improved thermal climate, so temperatures are more pleasant, in the summer as well as in the winter. Guaranteed energy conservation!
- improved acoustic climate, so less noise from adjoining rooms or from outside. And better acoustics in the actual room itself, with less resonance.



The Indoor Climate Wall offers a healthier living and working environment as well as more comfort!

100% sustainable

The Indoor Climate Wall is extremely environmentally friendly: made from 100% renewable raw materials and 100% bio-based materials. The production process is also ecologically sound: Faay Vianen is certified for ISO, KOMO, FSC and PEFC. Moreover, the Indoor Climate Wall is 100% reusable and 100% recyclable. In short, the Indoor Climate Wall is a very sound and 'green' choice!

1 For the loam stucco finish, Faay works with Claytec, a specialist in traditional loam constructions. For more information see www.claytec.nl.

Supply program

Technical details						
	Thickness	Weight	Fire-resistance	Insulation U-value	Rw	D _{st,FAK} 2012
VP54	54 mm	28,12 kg/m ²	45 min.	1,54 m ² W/m ² K	30 dB	28 dB
VP54 + 1x plaster	64 mm	36,12 kg/m ²	62 min.	1,47 m ² W/m ² K	35 dB	34 dB
VP54 + 2x plaster	73 mm	44,12 kg/m ²	>62 min.	1,38 m ² W/m ² K	36 dB	35 dB
SP54	54 mm	23,82 kg/m ²	≤20 min.	1,38 m ² W/m ² K	27 dB	24 dB
VP70	70 mm	34,20 kg/m ²	45 min.	1,23 m ² W/m ² K	29 dB	28 dB
SP70	70 mm	32,00 kg/m ²	≤20 min.	1,20 m ² W/m ² K	29 dB	28 dB
HV70	70 mm	19,00 kg/m ²	> 30 min.	0,69 m ² W/m ² K	35 dB	34 dB
IW90	90 mm	36,80 kg/m ²	82 min.	0,68 m ² W/m ² K	50 dB	46 dB
IW100	100 mm	47,36 kg/m ²	75 min.	0,76 m ² W/m ² K	45 dB	44 dB
IW100 + 1x plaster	110 mm	55,36 kg/m ²	>90 min.	0,73 m ² W/m ² K	49 dB	48 dB
IW135	135 mm	51,36 kg/m ²	>75 min.	0,41 m ² W/m ² K	+49 dB	46 dB
IW148	148 mm	58,24 kg/m ²	120 min.	0,47 m ² W/m ² K	56 dB	55 dB
IW200/54 (2x VP54)	200 mm	58,24 kg/m ²	>120 min.	0,44 m ² W/m ² K	+59 dB	58 dB
IW200/70 (2x VP70)	200 mm	70,40 kg/m ²	>120 min.	0,38 m ² W/m ² K	+59 dB	58 dB
GP22	22 mm	15,40 kg/m ²	>30 min.	2,77 m ² W/m ² K ^{a)}	Improvement ca. 10-20 dB	-
IW35	35 mm	23,18 kg/m ²	45 min.	2,13 m ² W/m ² K ^{a)}	Improvement ca. 10-20 dB	-
PG60	60 mm	9,10 kg/m ²	<20 min.	0,35 m ² W/m ² K ^{b)}	Improvement ca. 5 dB	-
PG70	70 mm	9,40 kg/m ²	<20 min.	0,31 m ² W/m ² K ^{b)}	Improvement ca. 5 dB	-
PG90	90 mm	10,00 kg/m ²	<20 min.	0,25 m ² W/m ² K ^{b)}	Improvement ca. 5 dB	-
GP22 VO ceiling	22 mm	18,00 kg/m ²	>75 min. ^{c)}	0,45 m ² W/m ² K ^{e)}	55 dB ^{c)}	-
FR19 VO ceiling	19 mm	8,00 kg/m ²	>70 min. ^{c)}	0,44 m ² W/m ² K ^{e)}	55 dB ^{d)}	-

Declaration table

- inclusive 40 mm insulation and one-brick wall
- system construction incl. 20 mm air cavity and one-brick-wall
- inclusive 65 mm mineral wool under wooden floor
- inclusive 65 mm mineral wool under stony floor >250 kg/m²
- inclusive 65 mm mineral wool

Formaldehyde: Class E1. All our tests have been carried out in accordance with the **Dutch NEN standards**.
Table date: March 2013

Documentation

We have documentation on:

- Faay Vianen
- Partition walls
- KBL system
- Retention walls
- W'all-in-One®
- PG Roofing
- Insulating and party walls
- Ceiling systems
- Frames
- Education
- Retail
- Prefab cavity barrier
- FAAYFIX® panel adhesive
- FAAYFOAM® foam adhesive
- Assembly instructions
- Wall sprays

You can request this documentation from us or download it from www.faay.com.



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Faay Vianen B.V. is an independent Dutch family business founded in 1972. Founder Cees Faay developed our very first wall system. This formed the basis for all wall and ceiling systems we have designed since then. They are leading worldwide thanks to their unique properties.

Our products have received a great many **national and international recognitions and certificates** from independent bodies. It is not for nothing that they are used across the globe!



All of our systems and products are on display in our **extensive showroom**, in all kinds of variations. Each type of wall and ceiling is clearly displayed. You and your clients are very welcome to come and take a look.