



Living wall systems

- as the freestanding **Eva** variant
- as the **Adam** façade greenery



Overview of our **living-wall** systems

Individual solutions for a range of walls

Over the following pages we invite you to discover our living-wall systems. Capable of installation on any type of wall structure, they are the ideal solution for existing buildings and newbuilds alike. If you're thinking of vertical vegetation for your buildings – the sky's the limit.

Our products

With our living walls – the Eva free-standing wall or the Adam façade living wall – vertical green areas can be realised in otherwise unfamiliar locations, creating a little corner of paradise almost anywhere. Even the drabest concrete spaces and walls can become important places for biodiversity while also improving the urban climate as our cities become increasingly hotter. At the same time, the vertical vegetation also provides increased cooling in summer and extra insulation in winter for the buildings themselves. Our living walls therefore benefit the natural world, people and buildings in equal measure.

Our inspiration

The Hanging Gardens of Semiramis in Babylon were one of the seven wonders of the ancient world. However, while

stepped, terrace-bearing structures needed to be built in ancient Babylon, our Adam living wall can transform almost any barren wall into an impressive garden reaching skywards. Conventional artificial irrigation systems guarantee that the plants are properly watered, so you don't need green fingers or a lot of time to create your very own green oasis – whether on a penthouse terrace or your own balcony, or to adorn the façades in public spaces.

Our Adam living wall is a comprehensive system suited both to new and existing buildings. With its modular construction, the living wall is easy to assemble for anything from a small house wall to entire building complexes. This is made possible by a selection of different substructures with plant cassettes in 2mm-thick aluminium, which can be connected to any substructure via their mounting hooks. This construction allows plenty of space for air circulation, allowing continuous ventilation of the façade.

*Example:
With mounting
system*



Substructure for Adam plant cassettes for direct wall-mounting (concrete wall)

Article	Material	Mounting-rail position	Installation depth of substructure
PWA U1L 20 ST	Hot-dip galvanised steel	Left	20 mm
PWA U1R 20 ST	Hot-dip galvanised steel	Right	20 mm
PWA U1M 20 ST	Hot-dip galvanised steel	Center	20 mm

The first substructure, which consists of three top-hat rails that are screwed directly to the wall, is suitable for walls that can withstand a structural load of around 140kg per square metre. Your chosen plant cassettes are then hooked directly into them. There

is a space of 20mm between the wall and external cassette wall for continuous ventilation of the façade. Once in place, this variant delivers a clean aesthetic and gives the impression of greenery floating on the house wall.



Substructure for plant Adam cassettes with mounting system for wall-supporting installation

Article	Material	Mounting-rail position	Installation depth of substructure
PWA U2L 115 AL	Aluminium	Left	115 mm
PWA U2R 115 AL	Aluminium	Right	115 mm
PWA U2M 115 AL	Aluminium	Center	115 mm

Our second substructure variant is the right choice if the building wall requires additional support due to excessive structural load caused by the wall vegetation. This variant has integrated feet that are placed on a foundation and then screwed tight. While most of the weight rests on the feet, special brackets between the substructure and the wall reliably

absorb the tipping load of the planted systems. Here, too, the plant cassettes are hooked into the three rails of the structure, creating a space of 115mm between the wall and cassette for adequate air circulation. This substructure variant is suitable for curtain façades up to a maximum height of 6m.



Substructure for plant Adam cassettes for integration in heat recycling systems

Article	Material	Installation depth of substructure
PWA U3 240 AL	Aluminium	240 mm

Our third substructure variant is again a free-standing system and builds up to a total height of 240mm. It is designed to accommodate wall-mounted insulation with a thickness of 160mm, which is installed around the wall bracket.

However, in this case the extra bonded permeable layer does not sit next to a panel, as is the case with curtain façades, but rather an appropriate plant cassette. This is hooked directly into the substructure and fully covers the insulation.



Adam vertical plant cassettes in aluminium

Minimal setup for maximum greenery

Article	Type	Width	Height	Depth	Planting-hole diameter	Plants per cassette
PWA K1 1000-500-170 AL	With drainage	995 mm	495 mm	170 mm	84 mm	18
PWA K1S 1000-500-170 AL	With nozzle	995 mm	495 mm	170 mm	84 mm	18
PWA K1 500-500-170 AL	With drainage	495 mm	495 mm	170 mm	84 mm	9
PWA K1S 500-500-170 AL	With nozzle	495 mm	495 mm	170 mm	84 mm	9
PWA K1 S-500-170 AL	With drainage	Custom	495 mm	170 mm	84 mm	Bespoke
PWA K1S S-500-170 AL	With nozzle	Custom	495 mm	170 mm	84 mm	Bespoke

Additional custom dimensions and bespoke variants are available on request.

With the fully vertical design of our plant cassettes, plants can be accommodated via cut-outs with a diameter of 84mm.

The cassettes are fully welded at the front to prevent water from escaping. Excess water can flow into the plant cassette below through drainage holes on the underside. In terms of watering, we recommend the use of drip irrigation hoses for a secure and controlled release of water to the granulate.

When laid at intervals of one metre, the hoses guarantee that the plants are properly watered and can be

attached to each cassette. A backward bend with holes is provided on the upper section of the rear side of each plant cassette for this purpose, to which conventional irrigation hoses can be affixed.

The lowermost cassette is fully welded ex works and fitted with a drain nozzle for the controlled drainage of excess water.

The plants can be safely inserted via plastic rings inserted within the cut-outs, which also feature a granulate catcher ①. The plant cassettes are gradually filled with the substrate from above while the plants are inserted from the side. This variant also enables extensive plant cover to grow in a short time, which makes your façade shine in seamless green. As protection from frost or heat, the vertical cassettes are factory-fitted with XPS panels, which are drilled out in the area of the plant openings and enable easy placement of the desired vegetation on the walls. Come sun, rain, wind or snow – you can rely on a year-round, flourishing green façade with our extremely robust and durable system.

Here you can see an example of the vertical plant cassettes using a substructure with mounting system.



Stepped Adam **a** plant cassettes in aluminium

Vertical setup with almost horizontal planting

Article	Type	Width	Height	Depth	Plants per cassette
PWA K2 1000 -500-170 AL	With drainage	995 mm	495 mm	170 mm	ca. 6-8
PWA K2S 1000 -500-170 AL	With nozzle	995 mm	495 mm	170 mm	ca. 6-8
PWA K2 500 -500-170 AL	With drainage	495 mm	495 mm	170 mm	ca. 3-4
PWA K2S 500 -500-170 AL	With nozzle	495 mm	495 mm	170 mm	ca. 3-4
PWA K2 S -500-170 AL	With drainage	Custom	495 mm	170 mm	Bespoke
PWA K2S S -500-170 AL	With nozzle	Custom	495 mm	170 mm	Bespoke

Additional custom dimensions and bespoke variants are available on request.

Stepped Adam **b** single racks in aluminium

Article	Type	Width	Height	Depth	Plants per cassette
PWA K2 1000 -165-170 AL	With drainage	995 mm	165 mm	170 mm	ca. 6-8
PWA K2S 1000 -165-170 AL	With nozzle	995 mm	165 mm	170 mm	ca. 6-8
PWA K2 500 -165-170 AL	With drainage	495 mm	165 mm	170 mm	ca. 3-4
PWA K2S 500 -165-170 AL	With nozzle	495 mm	165 mm	170 mm	ca. 3-4
PWA K2 S -165-170 AL	With drainage	Custom	165 mm	170 mm	Bespoke
PWA K2S S -165-170 AL	With nozzle	Custom	165 mm	170 mm	Bespoke

Additional custom dimensions and bespoke variants are available on request.

We have developed the stepped variant of our plant cassettes for a maximum variety of suitable greenery while also ensuring an excellent uptake of rainwater. The riveted plant box rows made from 2mm-thick aluminium are slightly sloping, which enables upright planting within a substrate depth of 120mm. At the same time, green tendrils – especially of trailing plants – elegantly cascade down to the next level.

As with the vertical plant cassettes, rows of drainage holes and recommended drip irrigation also guarantee lush greenery here. Stepped cassettes that are welded at the lowest row of plants and fitted with a drain nozzle ensure proper drainage of excess water.

Row of holes for the attachment of hoses

a



b

Cassette with row of drainage holes

a

Cassette with drain nozzle



Here, the spacers of the substructure for heat recycling systems (right) enable for instance the attachment of the "stepped plant cassettes". The three lowermost segments are single racks.



Eva freestanding living wall in Magnelis* steel

Privacy screen and greenery in a single system

Articel	Height	Width	Depth at bottom	Depth at top	Colour
PWE 1176-1450-500 ST O	1.176 mm	1.450 mm	500 mm	324 mm	Natural/none
PWE 1176-1450-500 ST W	1.176 mm	1.450 mm	500 mm	324 mm	Pure white
PWE 1176-1450-500 ST G	1.176 mm	1.450 mm	500 mm	324 mm	Iron mica
PWE 1176-1450-500 special	1.176 mm	1.450 mm	500 mm	324 mm	Other colour
PWE 1944-1450-500 ST O	1.944 mm	1.450 mm	500 mm	209 mm	Natural/none
PWE 1944-1450-500 ST W	1.944 mm	1.450 mm	500 mm	209 mm	Pure white
PWE 1944-1450-500 ST G	1.944 mm	1.450 mm	500 mm	209 mm	Iron mica
PWE 1944-1450-500 special	1.944 mm	1.450 mm	500 mm	209 mm	Other colour

*Magnesium-zinc coating (10× greater corrosion resistance than galvanised steel; self-healing protection for cut edges)

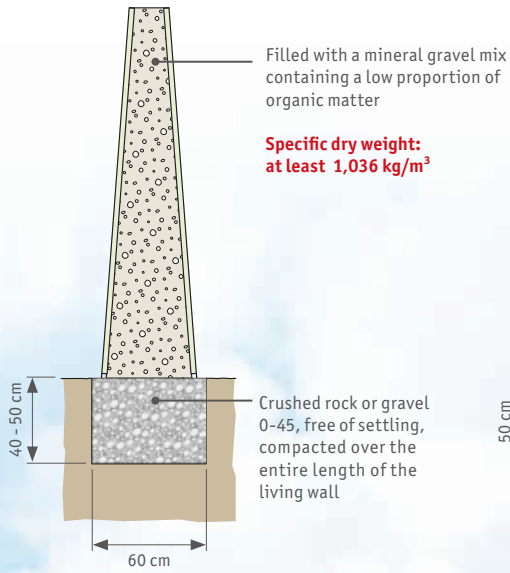
Would you like an area of extensive vegetation but lack the space? Our Eva living wall makes this possible, both indoors and out. Its vertical orientation creates a large area for planting while taking up minimal space. The variants are available in different heights and can be placed alongside each other, for example to create partition or fence elements. Alternatively, they can simply be used as visual highlights thanks to their striking appearance.

This is enhanced by finishing the wall in a pure white (RAL 9010) or iron mica (DB 703) coating. And of course there are no limits to colours and shades beyond the standard versions.

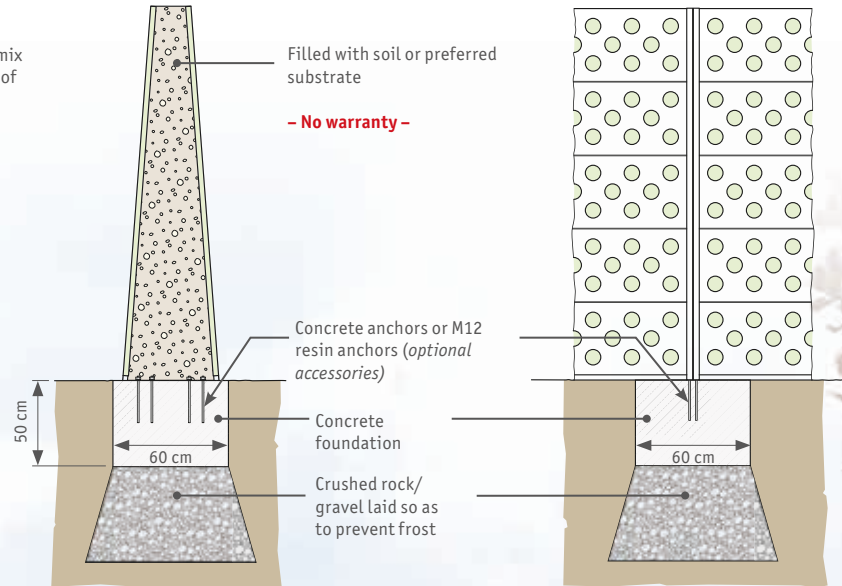
Thanks to the plug-in system, the Eva living wall made from highly corrosion-resistant hot-dip galvanised steel is assembled in no time and can securely hold up to 20 plants per wall panel in its openings. The wall can be

free-standing depending on the design and weight of the chosen model. At the same time, we can also provide additional floor anchors that can be secured into a concrete foundation. If the build-up of frost or occasional heat is a concern at the installation site, we can also line the panels, on request, with XPS panels that can be drilled through at the plant openings.

Setup option A



Setup option B





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