

Technical Description

MoosMoos Greenovation — care-free façade greening with preserved forest moss.

FAÇADE

RAINWATER RETENTION

MICROCLIMATE

ACOUSTICS



GREENOVATION MOSS FAÇADE · APARTMENT BUILDING, EUSKIRCHEN

FOREST MOSS · OUTDOOR PLUS

01 · PRODUCT

Greenovation at a glance

Product description and typical fields of application

PRODUCT DESCRIPTION

MoosMoos Greenovation is a care-free façade greening made of moss that reduces urban heat islands, supports rainwater retention, improves air quality and reduces exhaust pollution. It offers an aesthetically pleasing, sustainable and environmentally friendly solution.

Installation is carried out by our fitting team on a rear-ventilated substructure. The flexible honeycomb mesh protects against damage from birds, storms and hail.

FIELDS OF APPLICATION · EXAMPLES

RETAIL PROPERTIES

LUXURY HOTELS

INNOVATIVE MUSEUMS

EXCLUSIVE RESIDENTIAL BUILDINGS

SHOPPING MALLS

FURTHER APPLICATIONS



GREENOVATION MOSS WALL OUTDOORS

Nº 01

02 · SYSTEM

Panel & Material

Structure, dimensions and materials used

750 × 1,500 PANEL SIZE IN MM · THICKNESS 20–40 MM	approx. 18kg/m² WEIGHT WHEN WET	6mm ALUMINIUM COMPOSITE PANEL · WEATHER- RESISTANT	Outdoor PLUS DRUCKPRÄPARATIONSVERFAHREN+ · SPECIAL PRESERVATION
---	---	--	---

MATERIAL

- ◆ 100 % sustainably harvested forest moss, produced with the MOOSMOOS Druckpräparationsverfahren+ and special Outdoor PLUS preservation
- ◆ Secured with a flexible honeycomb mesh (green or black) and black anodised stainless-steel clips
- ◆ Aluminium composite panel 6 mm — high-performance material for outdoor use, extremely durable and dimensionally stable
- ◆ Reduced maintenance frequency for exterior cladding
- ◆ Fire protection to DIN EN 13501-1 — B1 / A2 certification in progress, certificate available shortly



FOREST MOSS · HONEYCOMB MESH · TIMBER CLADDING

03 · PROPERTIES

Performance of the surface

Care-free, water-absorbing, resistant and sound-absorbing

**CARE-FREE**

No maintenance required – no irrigation, fertilising or pruning.

**UP TO 8 LITRES**

Rainwater absorption per square metre.

**RESISTANT**

Against pests, weeds and rain.

**SOUND-ABSORBING**

In-situ measurement to DIN EN 1793-5 (Akustikforschung Dresden): α up to 0.84 at 5 kHz. Test report on request.



FOREST MOSS SURFACE · DETAIL

Nº 03

Suitable for buildings of every size and age.

04 · SUBSTRUCTURE

EJOT CROSSFIX®

Rear-ventilated curtain wall façade: system description

SYSTEM DESCRIPTION

The CROSSFIX® system consists of a stainless-steel bracket with pressure plate, thermal stop and force key, aluminium profiles in various designs and a broad portfolio of anchoring solutions for fixing bracket, force key and insulation to the load-bearing wall.

CROSSFIX® is particularly flexible and suitable for horizontal as well as vertical system layouts in rear-ventilated curtain wall façades. Depending on the fixing method and the substrate, various hole geometries are provided in the substructure.

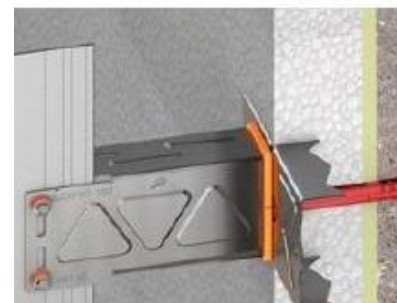
The stainless-steel brackets come pre-assembled with thermal stop and pressure plate in projections of 45–405 mm in 20 mm increments. The thermal stop acts as a thermal separator and thus reduces thermal bridging. Thanks to a keyhole-shaped geometry, the force key is locked to the bracket with a simple turn.



IX* System Klaue mit Maus
Ausbildung eines Festpunktes, nur vertikale Montage der Tragprofile möglich



CROSSFIX® System Klaue mit Maus
Ausbildung eines Gleitpunktes, nur vertikale Montage der Tragprofile möglich



CROSSFIX® SYSTEM CLAW WITH SLIDER



ILLUSTRATION · EJOT

05 · FIXING

Fixed and sliding points

Functional principle and advantages of the substructure

FUNCTION

To allow unrestrained thermal expansion of the aluminium profiles, the profile connections distinguish between fixed and sliding points. Sliding points take up the horizontal wind loads. Fixed points transfer a share of the horizontal wind load as well as the vertical dead weight of the entire system.

Profiles and brackets are connected with the specially developed EJOT Vario screw — a universal A4 stainless-steel fastener for forming unrestrained fixed and sliding points in rear-ventilated curtain wall façades in accordance with DIN 18516-1.

ADVANTAGES

- ◆ Certified by ETA 21/0756
- ◆ A4 stainless-steel bracket (DE)
- ◆ Pre-assembled thermal stop
- ◆ Reduced thermal conductivity
- ◆ Pressure plate for higher load capacity
- ◆ Universal use (vertical and horizontal profile mounting)
- ◆ Unrestrained system through fixed and sliding points
- ◆ Standard-compliant, regulated fixing to the substrate and between bracket and support profile



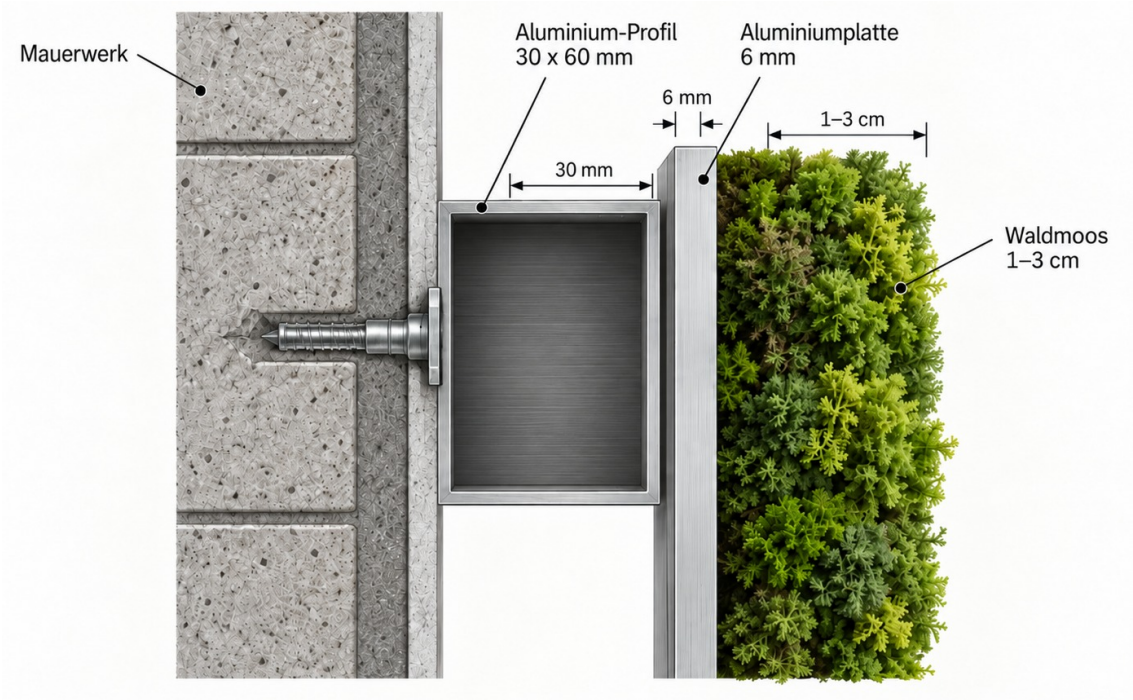
SLIDING POINT · FIXED POINT · BRACKET K1

ILLUSTRATION · EJOT

06 · DETAIL

Construction detail

Section sketch of the Greenovation façade on masonry



LAYER STRUCTURE FROM INSIDE TO OUTSIDE

SUBSTRATE	Masonry, anchored with screw anchors in the load-bearing substrate
SUBSTRUCTURE	Aluminium profile 30 × 60 mm, rear-ventilated
CARRIER PANEL	Aluminium panel 6 mm, weather-resistant and dimensionally stable
SURFACE	Forest moss 1–3 cm, secured by flexible honeycomb mesh
PANEL	750 × 1,500 mm · build-up approx. 20–40 mm · approx. 18 kg/m ² wet

SECTION SKETCH GREENOVATION FAÇADE · HORIZONTAL SECTION CONSTRUCTION DETAIL

07 · SUMMARY

Greenovation at a glance

Technical structure and benefits in use

SYSTEM

Moss. Substructure. Façade.

— ◆ —

A care-free forest moss surface on a rear-ventilated substructure — protected by a flexible honeycomb mesh and tested to the relevant standards.

- ◆ Care-free forest moss surface
- ◆ Rear-ventilated substructure
- ◆ Flexible honeycomb mesh as protection
- ◆ Panel size 750 × 1,500 × 20–40 mm
- ◆ Aluminium composite panel 6 mm
- ◆ Fire protection DIN EN 13501-1 · B1 / A2 certification in progress
- ◆ Sound-absorbing · In-situ measurement to DIN EN 1793-5

MOOSMOOS



THE EASY WAY TO GREEN BUILDINGS

From the first idea to final realisation — our team accompanies
your façade project with planning, samples and installation.

MOOSMOOS MANUFAKTUR · BERGERMANN FLORISTIK GMBH · MITTELWEG 6 · 02736 OPPACH · WWW.MOOSMOOS.DE