

The first ETICS, that can do everything:
weber.therm circle

No more excuses!
Our best ETICS
offers all the answers!



Our best:
weber.therm circle
weber.therm circle is
the first recyclable
external thermal
insulation composite
system that can be
sorted type by type.
After use, the
components are
turned into high-
quality new products.

Zero Waste for our environment



„Nothing in the world
is as powerful as an idea,
whose time has come“

Victor Hugo

For construction activities in Germany, among others around 5 million cubic meters of insulating materials and 100 million tons of sand are used.

Real estate is a long term investment, but it is subject to constant changes such as extensions or conversions. The building materials are mixed in these cases or during dismantling and are thus lost for further use in building construction. Our society can no longer afford this expensive and ecologically unsatisfactory process.

The lack of recyclability of external thermal insulation composite systems was a major criticism of this and other composite construction methods from the outset. As the word "composite" already expresses, all components are bonded one to another, so that

they only can be disposed of mixed together and not sorted type by type.

Saint-Gobain Weber has now developed a solution: With the new Zero Waste external thermal insulation composite system **weber.therm circle** all components can be separated according to each type and recycled after dismantling.

From a one-time use of valuable resources, building thus develops into a raw material cycle. This future-proof premium system makes it possible to work in highest quality and at the same time to plan and to build peak of ecological progress.

Robust, durable and recyclable

Many advantages in one system



weber.therm circle
bundles the advantages
of the best ETICS
of Weber.

weber.therm circle combines the advantages of all Weber-ETICS. As a fully mineral thermal insulation composite system, it offers the high fire protection of building material class A1 and is therefore non-combustible.

The diffusion-open premium ETICS keeps the heat in the house in winter and the heat in summer outside. The massive construction scores with its high mass and good heat storage capacity. This promotes rapid drying and thus prevents algal growth. Due to the heavy mineral wool quality and the solid construction, the system also improves sound insulation.

With a solid render shell up to 25 mm thickness, **weber.therm circle** is also suitable for applications

on stressed facades. The robust render system is low-maintenance and has a longer service life than that of a thin-layer system.

With mineral AquaBalance overlay renders and paints, the facade remains protected against algal and fungal growth in the long term. The environmentally friendly AquaBalance technology is based on a physical principle and requires no biocidal additives.

In addition to these advantages, **weber.therm circle** is the first decomposable and recyclable composite thermal insulation system. The system is mechanically fastened to the wall. A separation fabric embedded in the specially developed base coat render and the absence of bonding mortar

ensures that it can be completely dismantled and separated according to each type. During the entire usage phase, **weber.therm circle** meets the same requirements in terms of durability and safety as any other thermal insulation composite system approved by the building authorities. Its design facilitates extensions and conversions as well as the integration of future technological leaps.

For this system **the building authority approval** under **rr. Z-33.9-167** been applied for.

completely decomposable	biocide-free render system	solid, fully-mineral system
purely mechanical fastening	All advantages at a glance	
non-combustible	good sound insulation	robust, three-layer render layer

Layer by layer

Innovative system, proven workmanship

1. the insulation boards are fixed to the wall without bonding mortar, but with countersunk screw dowels.

2. by inserting caps of mineral wool over dowel heads heat loss is prevented and the subsequent dismantling made possible.

3. a solid base coat render of 8 - 12 mm thickness is applied directly onto the insulation board.

4. the separation fabric is installed close to the insulating material. During dismantling, it stabilizes the render shell and ensures a clean separation of the render layers from the insulating material.

5. the separation layer is followed by the reinforcement layer. A lightweight reinforcing render is used for this purpose in 5 - 8 mm thickness and the reinforcing fabric is embedded.

6. corners and connections are done in the same way as with conventional ETICS.

7. as third layer of render use an overlay render. The whole solid render shell can thus achieve a layer thickness of over 25 mm.

8. the use of mineral overlay renders enables the simple, single-variety recycling of the whole render shell.



Zero Waste Premium-WDVS

weber.therm circle

Insulation board weber.therm MW 40

Facade circle

Screw dowel weber.therm SRD-5

with anchor plate VT 112

Separation fabric woven mesh

weber.therm 310

Reinforcing base coat render

weber.therm armadura base

Reinforcing lightweight mortar

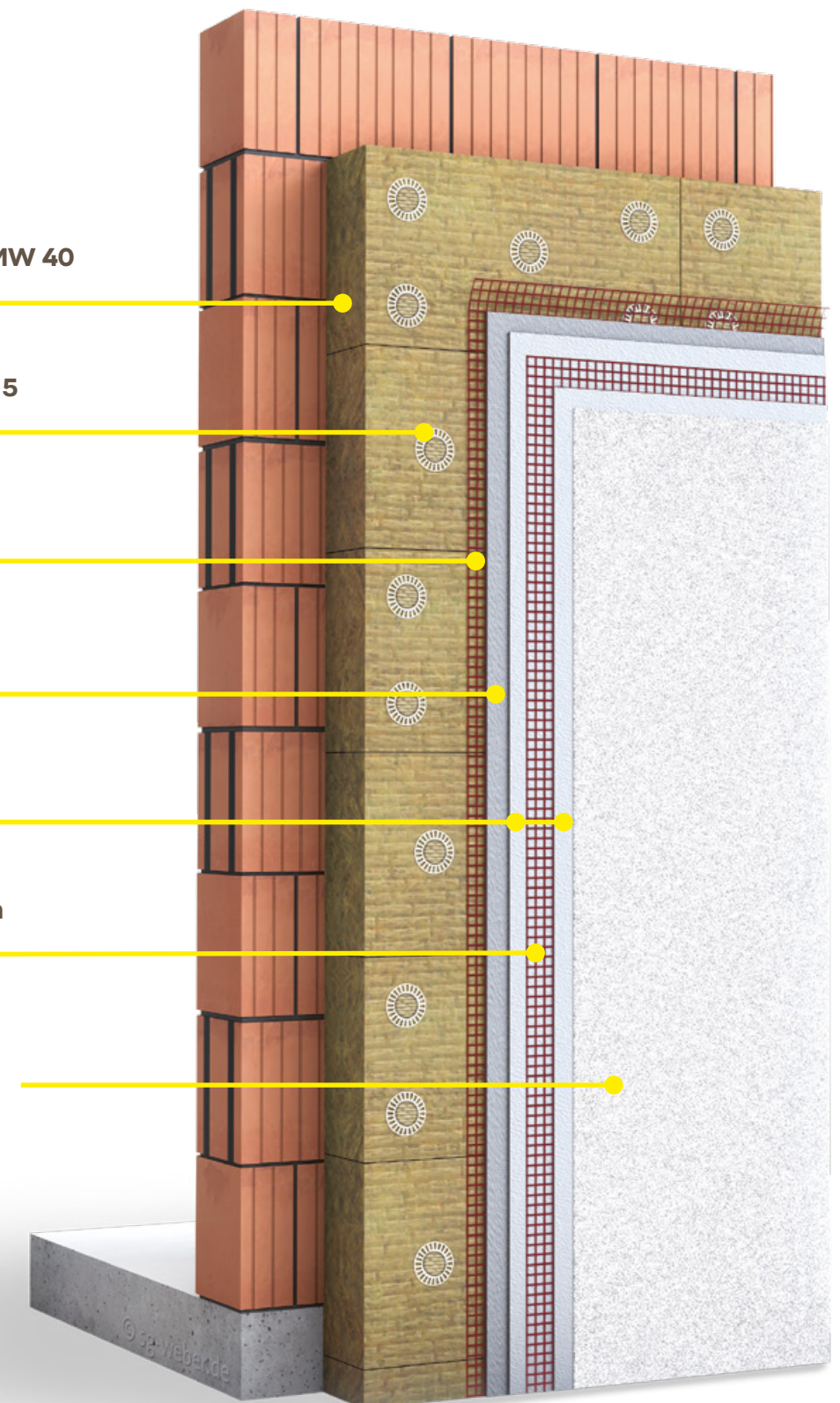
weber.therm 302

Reinforcing fabric woven mesh

weber.therm 310

Mineral overlay render,

e.g weber.top 206 AquaBalance



Unlimited design possibilities

Mineral renders offer individual texture



1.



2.



3.



4.



5.



6.

Texture diversity:

1. broom render
2. comb render
3. smooth render
4. float render
5. dragged render
6. rilled render
7. scratch render

A high-quality wall construction deserves a proper finish. After all, a technically demanding and permanently beautiful facade does not only serve as a figurehead, but also contributes to the long-term preservation of the value of the property.

Mineral overlay renders not only score points for their longevity, but also unfold a great depth effect.

Variable render thicknesses give the façade an interesting and individual feel. The design spectrum for mineral renders is almost unlimited. Thanks to a multitude of aggregates and colours, every facade becomes unique. In addition to well-known textures such as float, rilled or smooth textures, classic texturing techniques, like broom or dragged ones are also available.



7.

On its underside decomposable, on its topside biocide-free

AquaBalance mineral scratch renders



weber.therm circle is not only convincing by its premium construction and recyclability. With this top-class system, the use of a mineral AquaBalance scratch render provides a surface finish of highest quality.

From 2019, Weber will equip its entire range of overlay renders with biocide-free AquaBalance technology.

It picks up and reinforces the hydrophilic principle of mineral renders. The moisture is removed from the surface in a controlled manner, stored in fine capillaries in the upper layers of render and released again as temperatures rise. So no moisture remains on the facade, and fungi and algal have no chance. With its purely mineral components and the absence of biocides, weber.therm

circle makes a contribution to an environmentally friendly construction method and corresponds to the growing need for healthy living.

The active principle of AquaBalance



The hydrophilic render surface expands the water droplets and thus increases the evaporation-active surface. Excess moisture is temporarily absorbed into the capillaries.



When the air humidity drops, the moisture is immediately released back into the atmosphere. The facade dries much faster and does not provide a breeding ground for algal and fungi.

Pull it off once, please!

Clean separation and re-use after recycling

Circle of Life – From the life of an ETICS

At some point, every component reaches the end of its life. For the components of **weber.therm circle** is the right place to start. Cleanly separated from each other, they become valuable raw materials and get a new life. The excavator shovel tears off the render shell divided into small fields together with the separation fabric, cleanly

separated from the mineral wool. Steel dowels are screwed out of the wall and the dowel heads cut from the dowel with a milling cutter. The mineral wool on walls can then be taken away as a whole. Since all components can be easily separated from each other, the dismantling is done quickly. The dismantled materials are collected separately and are used as high-quality, unmixed raw materials. to a new use.



And what happens to...

...the mineral wool insulation board?

The mineral wool can be directly recycled. It finds e.g. a new task in building separation joints or flocked as blow-in insulation.



...the mineral render?

The render is crushed and used as additive for subordinated mineral building materials.



...the fiberglass fabric?

The fabric is shredded and returns to the material cycle. It is used for ex. for the reinforcement of plastic components.



...the steel screws?

After separation from the polyamide sheathing, the steel is melted down and used for new steel products.



...the dowel plastic??

The dowel plastic is given a new lease of life on the building site. It is recycled as printing material for third-party assembly on ETICS.



At Weber, we believe that the most important in the building industry is to care about people and their environment



**we
care**

= Well-being

We care for the well-being of people.



**we
care**

= Empathy

We care about what matters to people.



**we
care**

= Long-lasting

We care about our long-term responsibility.