

Nr. / No.

CERASHIELD NEO PD-1608-001EN

This document is intended to provide general recommendations only.

CERAMAX provides these informations, guidelines and all testing and design data for informational purposes only. CERAMAX strongly advises that the customer, project owner and architect seek independent advice from a certified construction professional, engineer and structural engineer regarding application and installation as well as compliance with design requirements, applicable codes, laws and regulations and test standards.

Please check your local codes and applicable design requirements for proper use.

CERATEC NEO European Technical Assessment:

CERASHIELD NEO – the unique ceramic facade material with European Technical Assessment (DIBt | ETA-16/0096) for all EU member states.

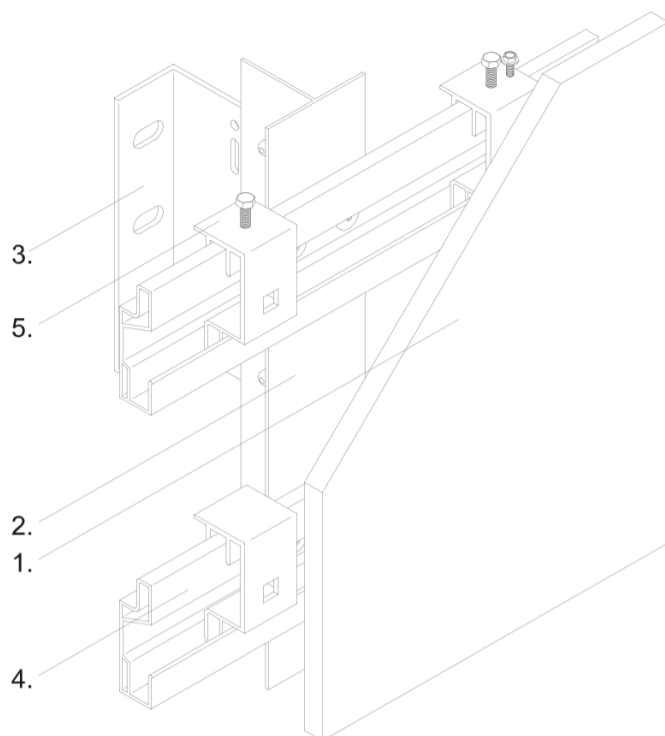
CERASHIELD NEO is „Made in Germany“. It is the system with worldwide largest ceramic facade plates and European Technical Assessment. Made of hybridceramic. With panel formats up to 1,500 x 3,200 mm.

From CERAMAX - pioneer for ceramic surfaces with jumbo formats.

CERATEC NEO support system:

CERASHIELD NEO facade panels with invisible fixing are mounted in combination with a CERATEC NEO support system, with general building approval.

CERASHIELD NEO facade panels are completely customized for the use at the construction site. So quick and easy mounting is possible. – Under any weather conditions.



CERATEC NEO COMPONENTS

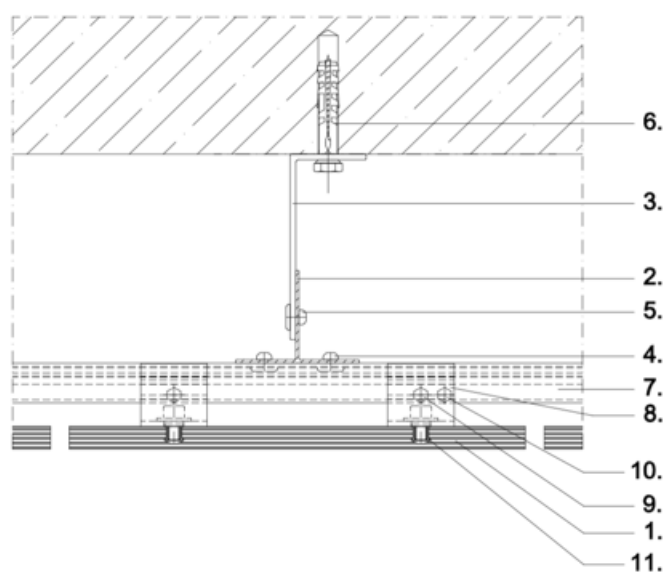
1. CERASHIELD NEO facade panel
2. CERATEC vertical holding track
3. CERATEC wall angle holder
4. CERATEC NEO holding track
5. CERATEC NEO holding bracket

Cavity depth and ventilation:

For a continuous ventilation behind the CERASHIELD panel, CERAMAX recommends the free air cavity depth between the CERATEC NEO holding track and the insulation or wall construction to be between 20 and 50 mm, in order to allow for ambient air to flow through from the ventilation inlets and outlets.

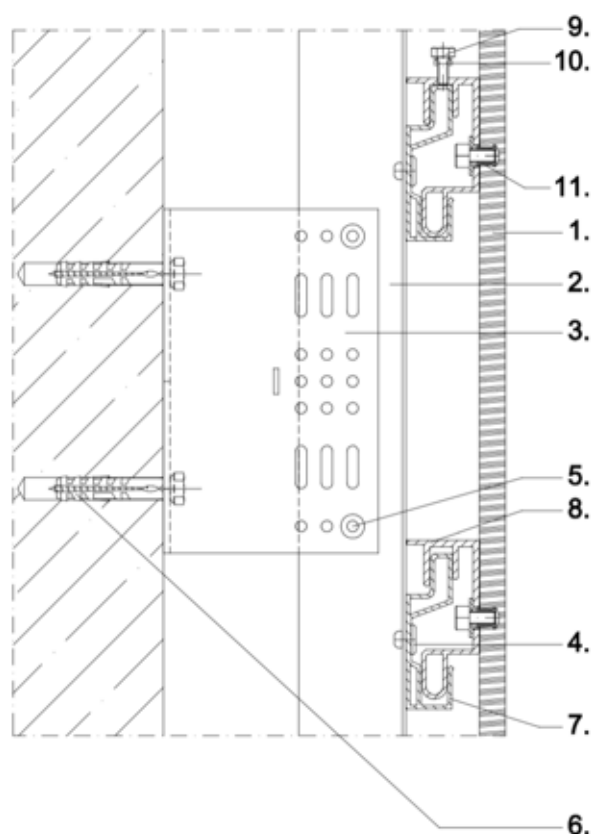
Ventilation inlets and outlets should be the equivalent of minimum 50 square cm per square meter over the whole façade.

The cavity depth as well as the minimum size of the ventilation inlets and outlets must be in accordance with applicable building standards, regulations and certificates.



CERATEC NEO COMPONENTS

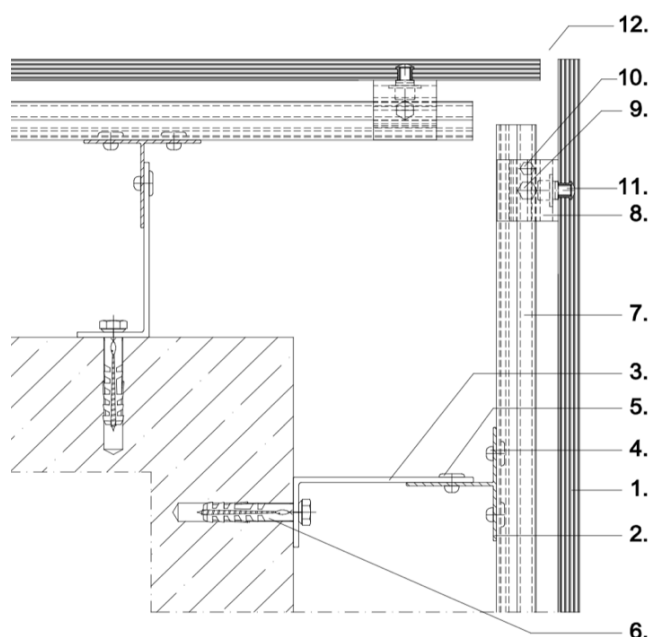
1. CERASHIELD NEO panel
2. CERATEC vertical holding track
3. CERATEC wall angle holder
4. CERATEC fixing rivet
5. CERATEC connecting rivet
6. CERATEC fixing
7. CERATEC NEO holding track
8. CERATEC NEO holding bracket
9. CERATEC NEO adjustment screw
10. CERATEC NEO locking screw
11. CERATEC NEO anchor for CERASHIELD NEO



Sub-construction:

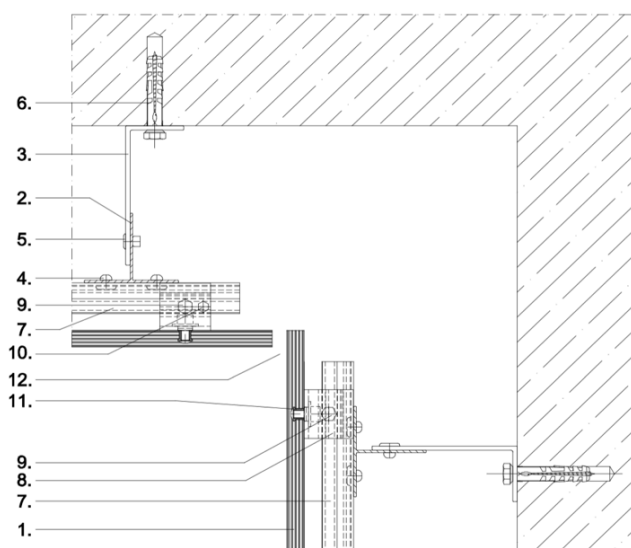
The horizontal CERATEC carrier profile must be installed on a vertical aluminium sub-frame (sub-construction) of sufficient strength and permanent durability. Quality and treatment of the sub-frame must be in accordance with certificate holders' recommendations as well as applicable building standards and regulations.

Sample for corner-details:



CERATEC NEO COMPONENTS

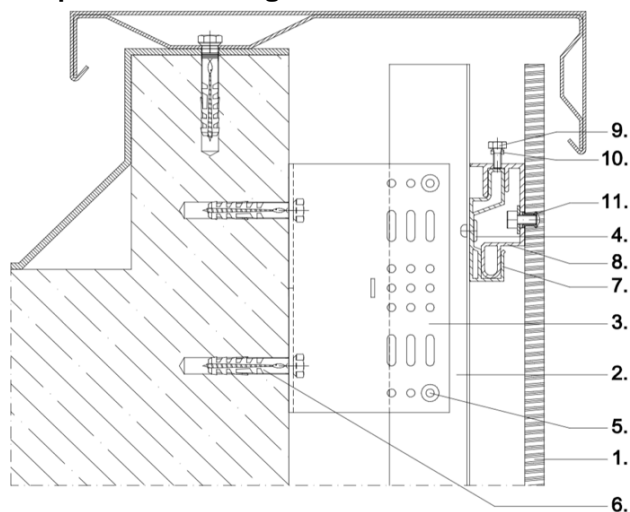
1. CERASHIELD NEO panel
2. CERATEC vertical holding track
3. CERATEC wall angle holder
4. CERATEC fixing rivet
5. CERATEC connecting rivet
6. CERATEC fixing
7. CERATEC NEO holding track
8. CERATEC NEO holding bracket
9. CERATEC NEO adjustment screw
10. CERATEC NEO locking screw
11. CERATEC NEO anchor for CERASHIELD NEO
12. CERASHIELD NEO Outward corner, blunt



CERATEC NEO COMPONENTS

1. CERASHIELD NEO panel
2. CERATEC vertical holding track
3. CERATEC wall angle holder
4. CERATEC fixing rivet
5. CERATEC connecting rivet
6. CERATEC fixing
7. CERATEC NEO holding track
8. CERATEC NEO holding bracket
9. CERATEC NEO adjustment screw
10. CERATEC NEO locking screw
11. CERATEC NEO anchor for CERASHIELD NEO
12. CERASHIELD NEO Internal corner, blunt

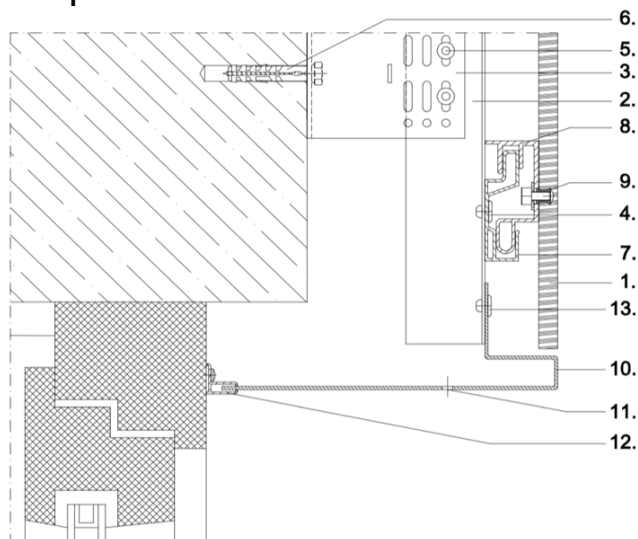
Sample for roof edge fascia:



CERATEC NEO COMPONENTS

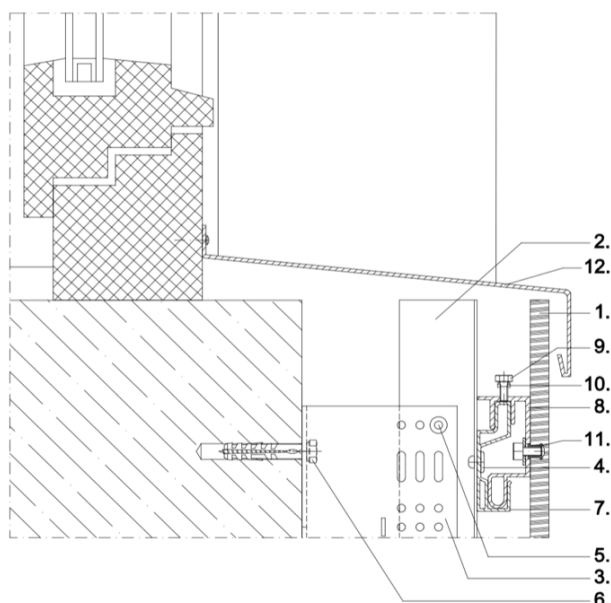
1. CERASHIELD NEO panel
2. CERATEC vertical holding track
3. CERATEC wall angle holder
4. CERATEC fixing rivet
5. CERATEC connecting rivet
6. CERATEC fixing
7. CERATEC NEO holding track
8. CERATEC NEO holding bracket
9. CERATEC NEO adjustment screw
10. CERATEC NEO locking screw
11. CERATEC NEO anchor for CERASHIELD NEO

Sample for window connection:



CERATEC NEO COMPONENTS

1. CERASHIELD NEO panel
2. CERATEC vertical holding track
3. CERATEC wall angle holder
4. CERATEC fixing rivet
5. CERATEC connecting rivet
6. CERATEC fixing
7. CERATEC NEO holding track
8. CERATEC NEO holding bracket
9. CERATEC NEO anchor for CERASHIELD NEO
10. CERATEC windowframe
11. CERATEC ventilation opening
12. CERATEC f-profile
13. CERATEC fixing element



CERATEC NEO COMPONENTS

1. CERASHIELD NEO panel
2. CERATEC vertical holding track
3. CERATEC wall angle holder
4. CERATEC fixing rivet
5. CERATEC connecting rivet
6. CERATEC fixing
7. CERATEC NEO holding track
8. CERATEC NEO holding bracket
9. CERATEC NEO adjustment screw
10. CERATEC NEO locking screw
11. CERATEC NEO anchor for CERASHIELD
12. CERATEC windowsill

CERASHIELD plate dimensions:

The maximum panel dimension for CERASHIELD NEO facade panels is 1,500 x 3,200 mm. Some CERASHIELD NEO Designs have a structure-/ pattern line with height.

Product	Thickness	Laminated backside	Weight	Maximum panel dimension
CERASHIELD NEO 12	12 mm (± 0,5 mm)		28,0 kg/sqm	1,500 x 3,200 mm
CERASHIELD NEO 12L	12 mm (± 0,5 mm)	X	28,5 kg/sqm	1,500 x 3,200 mm

CERACLEAN BIOACTIV:

Surfaces of high insulated facades tended to become covered with algae and limescale deposits. The ageing process of surfaces is accelerated. So normal facade surfaces become unsightly after just a few years.

Optional CERASHIELD facade panels (special designs) can be equipped with CERACLEAN BIOACTIV. An effective protection against algae and limescale deposits, organic dirt and surface-aging.

CERACLEAN BIOACTIV is a transparent, durable and resistant on-line coating that lasts the lifetime of the facade. It is permanently baked onto the external CERASHIELD NEO surface in a high temperature manufacturing process by 1,200 °C.

Its self-cleaning properties make it ideal for use in hard-to-reach places that are difficult to clean.

CERACLEAN BIOAKTIV the dual-action self-cleaning coating has revolutionary photo-catalytic and hydrophilic properties, and works in two stages:

1. Photo-catalytic effect

The coating reacts with natural daylight to break down and loosen organic dirt.

2. Hydrophilic effect

When it rains, instead of forming droplets, the water spreads evenly over the facade surface, helping to wash away any dirt and reduce streaking.

During long dry spells the facade can be cleaned by simply hosing it down with clear water.

Organic dirt breaks down and washes away when it rains.

The self-cleaning properties of CERACLEAN BIOACTIV reduce the need of manual cleaning, saving water and eliminating potentially harmful run-off from expensive detergents, also increasing personal safety. It works even on cloudy days and during the night.

A revolutionary benefit and USP for back ventilated facades! CERASHIELD NEO facade solutions are highly durable for the lifetime of your building.

General Information:

CERASHIELD NEO facade panels and the CERATEC NEO support system must be fastened according to the guidelines of CERAMAX and those of third party suppliers (e.g. sub-construction). They must be corrosion resistant fixed on a suitable sub-construction in such a way that the moduls are not restrained and are able to move freely.

When determining the sub-frame the following should be considered:

- Static loads like wind loads etc.
- Unimpeded movement of the CERASHIELD NEO facade panels
- Energetic requirements (e.g. dimension of insulation)
- Required ventilation provisions

- Applicable building standards, regulations, certificates and CERAMAX technical installation details (e.g. panel dimensions, fixing distances, etc)
- Anchoring possibilities in the load bearing wall (construction)

Any modification to CERASHIELD panels or components thereof, its geometry or its specifications, and any use or installation of CERASHIELD panels or CERATEC fixing systems in combination with any material or component other as advised by CERAMAX, shall be exclusively at the risk of the parties involved in such modification, use or installation, and each of such parties assumes all such risks.

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