



Symmetrical Cladding.

SLATE IN THE MODERN FAÇADE DESIGN.

The Symmetrical Cladding for the modern façade design.



For thousands of years slate has already been used as material for roofs and façades. Durable, robust, easy to handle and aesthetic – this is how nature made it.

Innovative rectangular types of cladding and new façade systems take care of a renaissance of slate in modern architecture. Today straight alignments and variable formats adapting themselves to every building geometry are in the focus.

Economic efficiency, laying without problems and unique aesthetics – these are today's demands on highly insulated back-ventilated façades.

The symmetrical cladding is an innovated façade system developed by Rathscheck that complies with these demands and defines the value adding design of façades with slate in a completely new way.

Up-to-date aesthetics in
unaffected naturalness.

Symmetrical Cladding. Courage for the extraordinary.

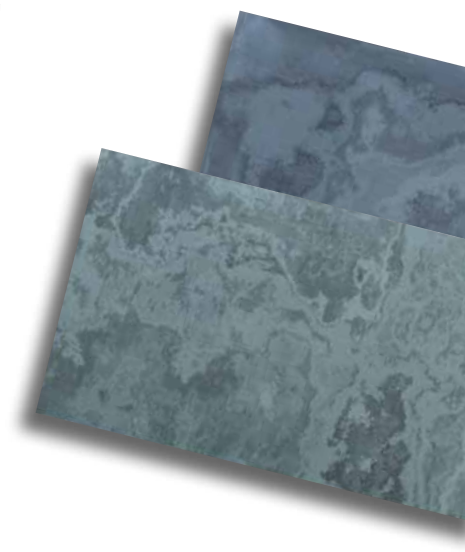
High economic efficiency, a laying technique without problems and an aesthetic overall image speak for a slate façade in symmetrical cladding.



Do contrasts attract attention to each other?

„The combination of slate in its natural state with its outstanding building-physical characteristics and an absolutely straight-lined architecture opens new creative leeways for design.

To me as a planner highly interesting opportunities are offered to create something extraordinary.“



The Symmetrical Cladding redefines the slate façade.



In contrast to all the other types of slate laying no vertical and horizontal overlap of the slate stones is required at the symmetrical cladding.

When carried out in cramp technique the façade system is based on a variable aluminium subframe where the slate tiles of a thickness of 1 cm are simply hung in with stainless steel cramps.

Hardly any waste is practically created since the subframe allows the use of slate tiles of any size up to 60 x 60 cm and thus optimally adapts to any building geometry. At the same time the face joints generate straight-lined modern optics.

On account of its low weight per square metre the symmetrical cladding is ideal for the design of the façade of large building blocks where a high economic efficiency is also decisive.

In addition to the cramp technique, the execution with the undercut technique offers an invisible opportunity for fixtures.

Even unusual ideas can be realised with the symmetrical cladding. Here the type cladding for façades was projected onto the roof.

Uncompromisingly thought to the end: At this monolytic architectural style the symmetrical cladding on the roof and at the façade sets impressive accents.



The **Symmetrical Cladding** with visible fixture.

Cramp technique

The slate stones are simply hung with stainless steel cramps into an aluminium subframe.

The system is so designed that thermal expansions are caught.

Any slate formats up to a size of 60 x 60 cm with a thickness of only one centimetre facilitate the perfect adjustment to the geometry of the building.

Three colours of slate with different surfaces offer freedom to planners for extravagant designs of façades.

- Optimal system structure for accepting common thicknesses of insulating materials according to EPD
- Uncomplicated and fast installation by hanging into stainless steel cramps instead of anchoring
- Absorption of thermal expansions by the aluminium subframe
- Stone sizes up to 60 x 60 cm
- Low weight of square metre by stone thickness of 1 cm
- High durability by robust slate quality
- Aesthetically attractive by various variations of colour and surface
- Consistently constant width of joints by cramping technique
- Modern optics by straight alignment

InterSIN®
blue-grey, natura split

InterSIN®
blue-grey, polished

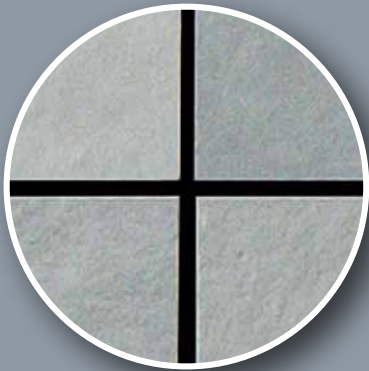
ColorSIN®
polar green, natura split

ColorSIN®
polar green, polished

ColorSIN®
dark green, natura split



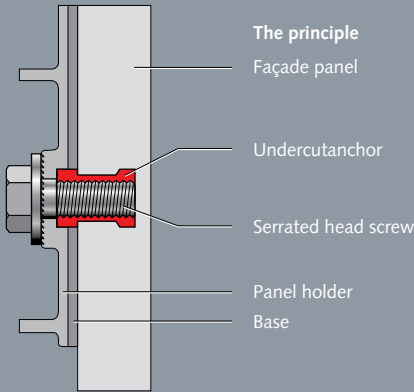
The Symmetrical Cladding with invisible fixture.



Undercut technique

At the undercut technique at a slab of slate, at least 10 mm thick, an undercut blind hole drilling, approx. 7 mm deep, is worked into its rear side and the anchor is inserted free of expanding force and positively locking.

One of the advantages of the invisible undercut anchor is the variety of the formats and the joint widths. Thus the façade can be designed completely freely.



Undercut anchors guarantee an undisturbed surface effect of the symmetrical cladding.

With the undercut technique the fastening of the slate panels, as from one centimetre thick and up to 2 x 1 m large is covered and not visible at the viewed surface.

This complies with the requirements of many architects for slate fixing materials.

The symmetrical cladding with undercut technique is a particularly safe fixing measure, taking care of materials, with a slim sub-structure and a low weight per square metre.



Slate is not always slate.

Living and dwelling in harmony with nature.



Our mine Katzenberg in Mayen. Here the valuable **Moselschiefer®** is exploited.

Only the best rock layers are further processed for coping stones and are awarded the rating **Moselschiefer®**.

Our **InterSIN®** production in Spain: The largest slate mine of the world.

Here constant strict controls also guarantee a constant high quality.

Sustainable building is a stipulation of the time. The goals are economically efficient, environmentally friendly construction methods saving resources. Sustainable buildings stand for a high quality of housing by comfort and healthy building materials, low costs for energy and maintenance and thus for a high stability of value of the property.

For centuries important references have testified the quality and stability of this natural rock.

An Environment Product Declaration (EPD) also confirms these empirical values for slate of the trade marks **Moselschiefer®**, **InterSIN®** and **ColorSIN®**.

Environment Product Declarations form the data basis for the ecological valuation of a building. In the declaration statements are made about the use of energy and resources as well as about the technical characteristics in order to be able to reliably determine factors such as durability or heat insulation of the building. With them the sustainability of a building is identified.

With testing methods developed by ourselves, by constant control of our own production processes inland and abroad as well as of the productions of our international strategic partners we look after the observance of the Rathscheck quality criteria.

At the same time we are additionally supported by independent testing institutions.

The **Rathscheck Quality System** exceeds by far the demanded national and European test standards and is based upon the experiences over decades in the production of slate for roof and façade. These created a test system for the assessment of worldwide slate qualities. Only the best slate deposits comply with our strict requirements.



- ⑤ Best slate, only from tested deposits
- ⑤ Continuous control of the quality of the stones
- ⑤ Constant supervision of the production processes
- ⑤ Strict selection of the completed coping stones

The use of building materials that are environmentally friendly produced, require little or no care, show a long durability and can be disposed of without any problems applies to such involved building.

Slate is a natural, durable material for roofs and façades. Therefore it is rightly described as ecologically valuable. In particular its very long durability of often more than 100 years justifies this reputation.



Institut Bauen
und Umwelt e.V.



- ▶ Ecosensitive extraction and production
- ▶ Ecological and healthy
- ▶ Extremely long durability
- ▶ Can be rebuilt very well
- ▶ Best assessment of sustainability

What you should know about slate ...

www.rathscheck.com
The comprehensive online slate portal.



Natural

Millions of years ago nature created an excellent material for us. A material that is exploited and processed unadulterated and without any additives. Slate is optimal in building physiology.

It is a natural healthy material and knows no problems with its disposal.

Robust

The life cycle of many products becomes shorter and shorter. Some of them disappear as fast as a rose bloom. Slate, on the other hand, is timeless and its durability is hardly reached at all. Times of 100 years and more are no rarity.

During the exploitation of the slate and its further processing above ground we use strict standards. Testing methods developed by ourselves guarantee a consistent slate quality.

Versatile

The different types of covering harmonise with all the architectonic styles. From classic buildings up to modern architecture slate sets standards at the roof and façade by its aesthetics.

Slate is a definitely solid decision for life and enjoys a remarkably increasing demand.

Good value for money

By the further development of the processing methods we gave the valuable building material slate good value for money. In comparison between cost of purchase and durability slate is extremely economical. The development of rational covering techniques and formats of coping stones also contribute to the fact that today slate is within everybody's means.

A roof or a façade covered with slate sustainably increases the constant value of real estate.

Modern

Slate meets all the requirements of modern building physics. It harmonises with all the current building materials from glass via concrete to steel and brightens up modern architecture with powerful contrasts.

Slate is timeless – never only fashionable, but always modern.

Aesthetic

A purely natural material of such precious quality is beyond all shadows of doubt. The varied classical and modern covering images for roofs and façades give every building very special aesthetics of lasting value:

Timeless, powerful and lively.

Straight from the movies – enjoy slate

With interesting movies we provide you with extraordinary insights into the fascinating world of the slate, a rock that with its charisma and durability distinctively speaks for itself.

- ⑤ Discover with slate the special connection between human being and nature.
- ⑤ Experience the careful exploitation of the valuable natural resource.
- ⑤ Be inspired by the creative handling with slate and modern architecture.

You may also ask for the films as DVDs.



Under www.rathscheck.com we offer you an extensive slate portal with much information and aspects worth knowing about the unique building material.

Discover the beauty of slate on the most different buildings in our extensive picture gallery.



Slate.

Naturalness in Perfection.



Our expert consultants are available for a personal consultation for you free of charge.

Because we see ourselves not only as slate producers but also as competent partners around the architecture with the natural building material slate.

We help you with the planning, advise you concerning all the issues and look after you during the realisation of your project.

A call is sufficient: Tel. +49 (0) 26 51 / 9 55-0

Rathscheck 
S C H I E F E R

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