

2018



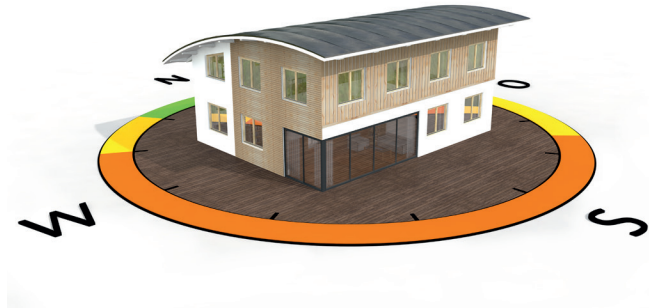
Timber *cladding*



wood profiles
Seca

Woodsolutions

ORIENTATION & EXPOSURE



Depending on location and orientation of a building, its facade surfaces are exposed to different stresses, which change the appearance of the building.

In addition to the weather effects, geographic location, altitude and local conditions such as hillside situation and adjoining trees also influence the „stress level“. Weathering from different directions will cause non-homogenous aging and discoloration, which is not wanted by most homeowners.

Due to weather influence, untreated wood changes its colour and structure. The natural tone changes into a silvery colour shade.

Only a combination of right planning, constructural know-how, the choice of the right material/wood, technical well engineered and processed profiles, sophisticated fixing systems and fully developed coating systems will guarantee a lifelong satisfaction for the residents.

CONSTRUCTIVE WOOD PROTECTION



Wood protection starts with constructive considerations. Following basic rules must be observed:

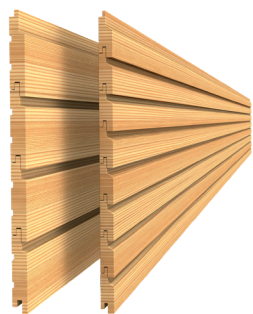
- coverage of vulnerable structural elements
- the lowest possible wood moisture content in accordance with ambient atmosphere
- keeping distance from water and efficient drainage
- sufficient ventilation
- protection of end grain
- sufficient distance to top ground surface

WOOD FACADES VARIETY

Wood offers a wide variety of possibilities for setting architectural accents. In order to bring appearance and durability in line, a few guidelines have to be followed.

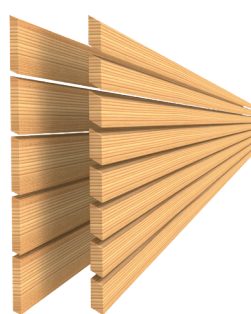
There is a basic choice between an open and closed cladding and in terms of installation direction there is a choice between horizontal or vertical cladding.

closed wood facade



- groove-and-tongue joints provide fast installation and balance swelling and shrinking of the wood
- closed, opaque - no UV-resistant film behind needed

open wood facade



- good air circulation
- distance of boards and appearance is individually designable
- moderate installation costs

horizontal wood facade



- elegant-stylish-modern - accentuation of width
- rear ventilation with only one batten (time and cost saving)
- susceptible to sedimentation
- rainwater is drained slower - discoloration starts in the lower board area because of longer standing water

vertical wood facade



- stylish - accentuation of height
- rapid drainage of rainwater and thus lower humidity stress
- ground- and framework are needed for ventilation
- end grain protection in the lower area has to be observed

only work as a system

FIXING SYSTEMS

The fixing of the facade has to fulfil at least two functions. Firstly, the absorption of the forces occurring on the cladding (wind-, suction- and pressure forces) and secondly, the fixing of cladding elements (absorption of deformation forces; allowing the swelling- and shrinking processes up to some extent).

There is the traditional visible fixing system by screwing through the surface. Attention has to be paid on the selection of appropriate screws.

The non visible systems like „TIGA Clip“ or „RhombClip“ have the advantage of not being screwed through the surface and therefore not creating as much stress for cracks to the cladding boards. By this the durability of the cladding is supported.

visible fixing

screwing through the surface



hidden fixing

with TIGA Clip



with RhombClip



COATING

Coating is the last step in protecting cladding and giving it longevity. Mostly coating is decorative and it gives cladding a more homogeneous appearance.

SECA offers 4 basic coating solutions:

- **UV-PROTECTION** treatment, which conserves the natural colour of the wood
- **PRESILVERING** treatment, that anticipates the natural silvering of wood caused by weathering and the impact of the sun. It avoids inhomogeneous greying like under canopies or in window embrasures.
- **TRANSPARENT COATING** treatment, that preserves a translucent appearance of the wood and underlines its natural character
- **OPAQUE COATING** treatment, that protects the wood surface effectively against UV impact and can set architectural colour accents





...innovation based on tradition!

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