

Instructions Plato[®] WOOD Cladding Systems

e.g. for Platonium[®] Afara, Oslo, Stockholm, and Westminster

Transport and storage

- To prevent damages packaging, transport and storage of Platonium[®] cladding boards should be done with care. For instance, the distance between the forks of a forklift should be sufficient (ca. 1.5 m) when big and/or long packages (5.1-6.0 m) are transported.
- Packages should be stored dry, clean and flat. Use sufficient strikes and the strikes must be located straight above each other when two or more packages are placed on top of each other. Storage should not result in a negative impact on the properties and quality of the Platonium[®] cladding boards. This also concerns storage on the building place.

Fastening

- Platonium[®] Norway spruce cladding boards (Oslo and Stockholm) are planed with the sapwood site as the (visual) top site. This is done because of the possible occurrence of raising grain between early wood and late wood at the heart site of the board.
- Fastening of Platonium[®] cladding boards should be done according the appropriate standards and/or directives. Important items are:
 1. The cross section end should be coated with an appropriate compound.
 2. The heart-to-heart distance of the under construction (e.g. Plato[®]WOOD 40x66 mm beams) should be maximal 600 mm.
 3. Ventilation behind the cladding boards should be sufficient, both for horizontal and vertical cladding. This includes also ventilation at the bottom and top site of the cladding!
 4. An expansion distance of at least 4 mm should be used between the individual cladding boards. The cladding boards should be fastened with an open distance of 5-10 mm between the cross section ends of the individual boards (especially when long length's are applied).
 5. Stainless steel ring nails of stainless steel wood screws should be used to fasten Platonium[®] cladding boards (A2- or A4-quality). The minimal attach length of a ring nail is 2,5x the thickness of the cladding board and the minimal attach length of a screw is 2x the thickness of the cladding board. Pre-drilling or the use of a screw with a special cutting point is recommendable, especially at the cross section end.
 6. The first ring nail of screw must be placed minimal 20 mm and maximal 25 mm from the board end.
 7. Fasten the cladding board against the under construction with one ring nail or screw per beam per fastening place. The place where the ring nail or screw is fastened is minimal 2 x the thickness until maximal 3 x the thickness of the boards, counted from the lower part of the board.
 8. Nail- and/or screw holes should be closed with an appropriate compound, if a film forming coating system is used. The ground layer must be repaired until the original layer thickness.

Coating

- Plato[®]WOOD can be applied without a coating system. The surface will be weathered on a natural way due to the influence of sun light, rain and wind. This does not affect the durability of the wood, but the wood surface will be grey after a while. During the first period of weathering the wood surface might be a bit spotty and dark coloured (especially when wet). This might be intensified through the adhesion of dirt and aerosols on the wood surface.
- Use appropriate coating systems which are allowed in your country.

- Apply the instructions of the coating producer. Important items are:
 1. The moisture content of the Platonium® cladding boards should be similar to the moisture content when applied in service conditions.
 2. The wood surface should be dry, clean and free of fatty compounds before the coating system is applied.
 3. A **covering film forming coating system** should be applied on all (four) sites with a minimal dry primer layer thickness of 80 µm (in minimal two layers of ca. 40 µm per layer). Cross section ends must be closed with an appropriate compound, keeping the moisture regulation similar to the painted surface. Do not wait too long coating the wood surface with the top layer. The primer layer might be discolouring slightly after some time. Please follow the instructions of the coating producer.
 4. Preferably do not use (semi)transparent film forming coatings for Platonium® cladding boards. If such a system is used, please use a system with a good quality UV-absorber (pigmented) and a anti sapstain fungicide. A transparent alkyd based coating system must be used in this case.
 5. Platonium® cladding boards can be painted with the regular non-film forming coating systems (covering and/or semi-transparent), e.g. stains and oils.
 6. If the Platonium® cladding boards are painted after fastening on the facade, only non-film forming coating systems can be used, e.g. stains or oils. It is always better to paint all (four) sites of the boards before fastening.
 7. Apply the maintenance schedule according the instructions of the coating producer.

Specific items which are of importance when coating Platonium® cladding boards:

- Natural defects (e.g. cracks in knots) on the surface of Platonium® Norway spruce cladding boards (e.g. Oslo) should be repaired with an appropriate compound when a (covering) film forming coating system is used. The surface should be repaired after the first primer layer and before the second primer layer is applied.