

## Conditions of Exploitation and Maintenance of PaNELTECH Sandwich Panels Surface

Surfaces of sandwich panels, with their core made of thermal insulation materials and two-sided sheet metal cladding, change their appearance in the course of exploitation, because they are exposed to atmospheric conditions. The scope of changes depends on the exposure rating of rural, urban or industrial environment.

This is why, to ensure the durability of the product, rust-proof steel sheet metal plates are used in the production process. The duplex protection system is applied, which consists of zinc layer and – usually polyester – paint coating.

The durability of the protection system is determined by the expected lifetime of the protective paint coating, until the first large-scale surface renovation.

The manufacturer guarantees that the durability of the protection system will be maintained on condition that the layer of the organic paint coating is correctly maintained and exploited.

Surfaces of roof and wall sandwich panels have to be reviewed periodically in order to reveal potential surface defects and to clean and remove the accumulated snow or contaminations, which could damage the protective coating. Continuous load and snow should be removed from the surface using tools which will not damage it.

It is recommended to review and wash the panels depending on the surface structure, but at least once a year. Panel surface has to be washed with the technique applied in module touchless car wash with washing pressure of approx. 30 bars. Stains can be removed from panel surface using dedicated preparations containing surfactants with pH from 4 to 9.

Minor damages of the organic coatings surface have to be protected by means of standard painting techniques, dependant on the kind of the artificial material and recommended by the manufacturer of sandwich panels.

It is also recommended to check during the periodical reviews, whether the panels are appropriately assembled with the mechanical connectors and flashing. Faults and defects in this area can lead to rising damp inside the panels, damages and corrosion, and in turn shorten the period of failure-free exploitation of the construction works.

Failure to comply with the above rules will result in the loss of warranty.