



SIKA AT WORK

SMART LUCIA LAKE DISTRICT, FINLAND

MODULAR BUILDING SOLUTIONS

SMART LUCIA, FINLAND



PROJECT DESCRIPTION

The 28 square meter Smart Lucia pods are fully equipped living spaces with facilities like any ordinary apartment. The breath-taking construction was well thought out by SmartLucia's design team, with structural strength from a steel cage and bonded insulating glass units forming roofs and walls, giving an end-result for the consumer with a clear optical feature and the advantage of staying close to nature's scenery.

You might wonder if it gets cold during wintertime in this space in the Northern part of the world? No worries the pod is well insulated and equipped with heated flooring system and intelligent heated windows.

SIKA SOLUTIONS

Sika Finland established a working partnership with Smart Lucia during 2018, initially focusing on the transparent character of the construction concept and therefore using Sika's technical expertise and long track record in the FFI business. The collaboration with architect and specifier resulted in a test module program, where prototype pods were built and later delivered to a ski-resort in the northern part of the country.

In a second step, cross-selling opportunities were revealed, the project was extended and Sika Finland positioned and involved more target markets. Detailed focus points were completed from the specifier: Seamless flooring with a high demand of coating uniformity from a visual standpoint was essential, as well as a more supportive base plate for transportation, compared to the first version where the supporting deck consisted of gypsum flooring boards.

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With full support from multiple target markets, these requests could be fulfilled and production trials started during Autumn 2020. By using the innovative Schönox Renotex-3D reinforcing net with cementitious screed as a matrix, the subfloor gave quality benefits such as better prerequisites for evenness for Sika's coating system. Another winning factor was from a quality point of view - less prone to cracking while lifting and during transport operations, due to the self-supporting feature of the subfloor.

PRODUCTS USED

Glass facade - IG units: Sikasil® IG-25 HM Plus, Structural glass bonding: Sikasil® SG-500, Weather Sealing: Sikasil® WS-605 S

Closed roof sections with sandwich panels - SikaForce® 7710 L35

Inside steel bars for insulating heat wires from steel bar - SikaBoom® Flex

Wetroom - Schönox® CLS, Schönox® RENOTEX 3D, Sikafloor®-150, Sikafloor®-330, Sikafloor®-305W

Subfloor - Schönox® HS 50, Schönox® RENOTEX 3D, Schönox® RS 50

Flooring system - Sikafloor®-150, Sikafloor®-330, Sikafloor®-305W

PROJECT PARTICIPANTS

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