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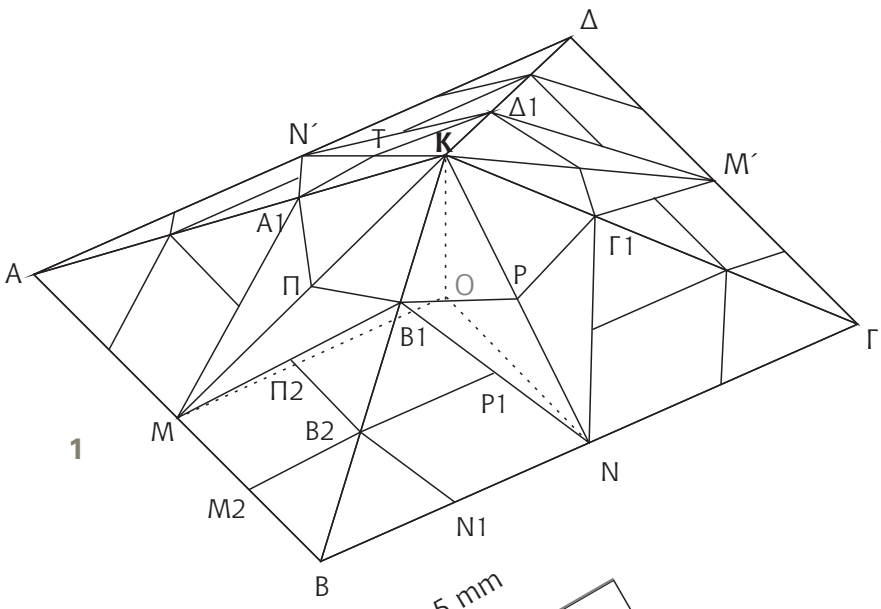
SKYLIGHTS “heliolite”

20/5/2011



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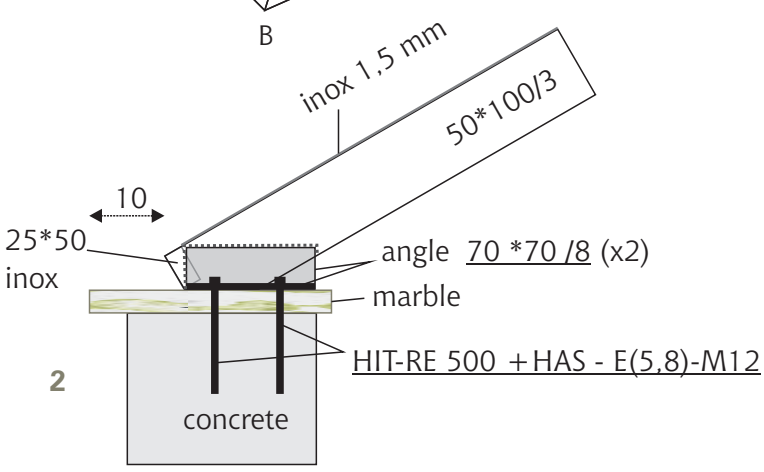

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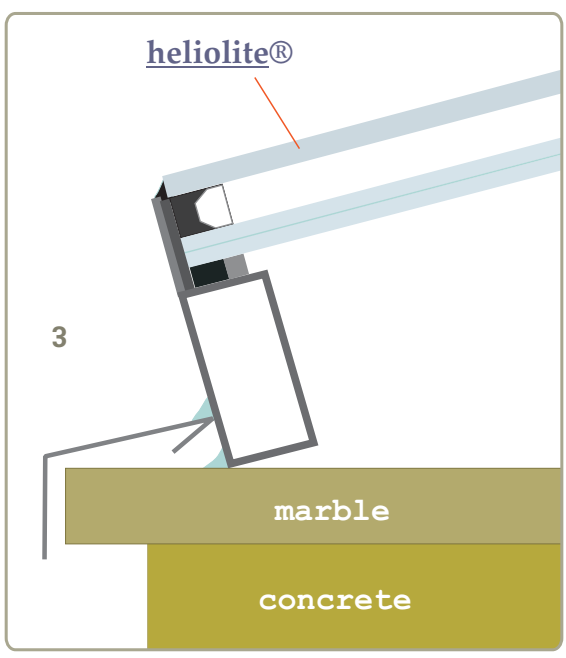
This structurally glazed skylight is a simple example, showing the flexibility of heliolite® glazing systems. It’s the skylight of the private kindergarden “Elpida (hope)” in Filyro, close to Thessaloniki, Greece. Thanks to the system, the architects were lucky to see their imagination become reliably true.

The innovations in design are the thin structural sections, the complex glazing net and the creation of two ventilation - cooling lights with triangular shape and non-horizontal base!

All innovation targets were resolved through geometric and dynamic analysis, giving smart solutions that fulfilled the architectural requirements.

The method of externally structural bonded glass, the selection of first quality materials and drives, in combination with high level know-how, allowed a perfect application.



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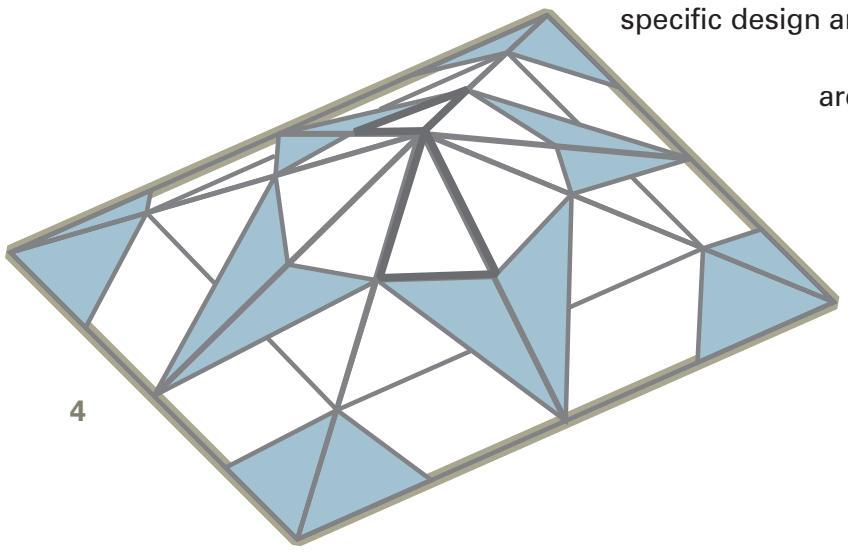
The skylight has a bioclimatic function due to the properties of the specified type of heliolite® glazing and the two D+H drives, incorporated to the opening lights, permitting ventilation and cooling; the kids are therefore enjoying a pleasant internal climate during the whole season, while the energy consumption is actually minimal.

An internal courtyard was therefore created, protected from external weather in winter and summer, permitting natural daylight in the “heart” of the school, as it was designed by the architects.

(1) Geometric approach design
(2) Support detail
(3) Typical glazing detail
(4) Glazing net design
(5) Overall internal view

Skylight project accomplished in 2009,
specific design and construction : KTIRIO DESIGN - Dimitris Giannakos

architects : Panayotis Dentsoras, Kaiti Themeli-Dentsora



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