

*Villa Roof, Switzerland, 2011*

Gurit provided structural engineering for an FRP composite roof, which was fabricated by Rhebergen Composites for a client in Basle. Advanced composites and a sandwich panel construction enabled manufacture of the 21 metre by 6 metre roof in one piece, providing a thin, lightweight, strong structure, which is resistant to extreme temperature changes and incorporates insulation within the sandwich structure of the roof.

Due to the location of the building, in the mountains surrounding Basle, it was almost impossible to reach the villa by road. The entire roof was shipped by barge from Rhebergen's yard in Amsterdam to Basle, where a helicopter was used to transport the roof the last few kilometres. The fabrication and installation of the roof is documented in a video by Rhebergen.