



Exterior view



Interior view

photo by author

Under construction



## Serpentine Pavilion 2014

Location: Serpentine Gallery, London, UK

Architect: Smiljan Radić

Engineering and Technical Design: AECOM

Duration of exhibition: 4 months, between 26 June to 19 October 2014

Structure: Glass reinforced plastic as shell on a steel frame

Material: Shell is made of white, translucent fiberglass panels

Thickness of fiberglass panel: about 1cm

Construction period: 6 weeks

Area size: 350 m<sup>2</sup> of the lawn in front of Serpentine Gallery

The 2014 Serpentine Pavilion was a cylindrical structure with fiberglass panels like a shell and rested on large quarry stones. The semi-translucent fiberglass was used so that it can show the original texture of his earlier paper model called 'The Castle of the Selfish Giant', inspired by the Oscar Wilde story and the Restaurant Mestizo part of which is supported by large boulders.

Fiberglass as a type of fiber reinforced plastic, is a strong and lightweight material with weather-resistant finish, whose raw materials are relatively cheap. It can be molded into complex shapes, being applied to aircraft, automobiles, bath tubs and roofing for example. The overall stiffness and strength can be controlled by layering in various preferred directions as it is strong in tension with high tensile strength, but might buckle easily in compression due to long aspect ratio, as well as being weak in shear force across the axis.

Reference: <http://www.serpentinegalleries.org/exhibitions-events/serpentine-galleries-pavilion-2014-smiljan-radic>

<http://vimeo.com/99124760>

<http://www.aecom.com/vgn-ext-templating/v/index.jsp?vgnextoid=4e8072088b027410VgnVCM100000089e1bacRCRD&cpsectcurrchannel=1>



Steel beams at foundation



Prefabricated fiberglass panels

Photos from: <http://www.londonarchitectureblog.com/2014/06/serpentine-pavilion-2014-under.html>