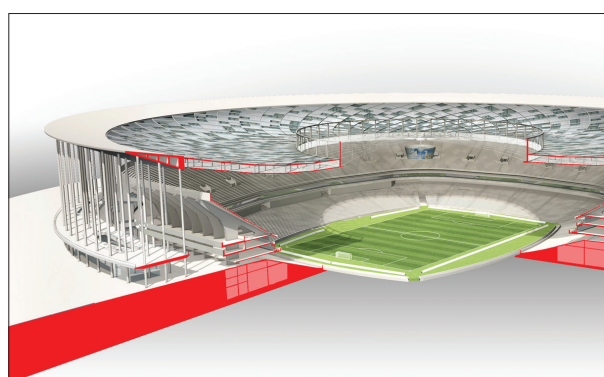




## Makrolon® solid sheets a part of Brazil's football frenzy

### Makrolon® roof for Brasilia's national stadium

	<b>Project:</b>	Estadio Nacional do Brasilia, Brazil
	<b>Architect:</b>	gmp • Architekten von Gerkan, Marg und Partner, Berlin, Germany Castro Mello Arquitetos, Sao Paulo, Brazil
	<b>Structural engineers:</b>	SBP, Stoccarda, Germania
	<b>Market segment:</b>	Construction
	<b>Product:</b>	Makrolon® UV, clear 2099 Thickness: 12 mm Length: 10 m

# Makrolon® solid sheets a part of Brazil's football frenzy

## Makrolon® roof for Brasilia's national stadium Brasilia

Whenever you think about Brazil you think about samba, Carnival, Sugarloaf Mountain and, of course, football. Preparations for the 2014 World Cup are in full swing including organising the infrastructure. Bayer Material Science Sheet Europe is playing its part in the World Cup with its Makrolon® solid sheets and is providing reliable roofing material for the Estadio Nacional in Brasilia, the capital of Brazil.

The cityscape, shaped by architects such as Oskar Niemeyer, is impressive with its outstanding architecture and Brasilia is the only city in the world built in the 20th Century to be declared a UNESCO World Heritage Site.

The new football stadium has arisen, phoenix-like, from the ashes of the former Mané Garrincha Stadium. This involved lowering and reducing the size of the playing field. The removal of the old running track brings spectators closer to the game so they can have a better view of what's happening on the pitch.

About 110 tonnes of Makrolon® UV 2099 with 12 mm thick sheets, each more than 10 metres long, are being manufactured for the inner roof ring of the double-leafed suspended roof. This approximates to about 7,500 m<sup>2</sup> to be covered with our solid sheet material.



### UV protection from the Brazilian heat

As Brasília has a tropical climate and is therefore subject to heavy rain or bright sunshine, a material with a high level of weather resistance is required that will protect spectators and players from the sun and the rain.

Makrolon® UV 2099 ticks all the boxes here because both sides of the sheets offer UV protection. This UV protective layer doesn't come off even after years of exposure to weather or cold bending of the plate. The 12 mm thick plate also lets through an amazing 82% of light. As a result the grass grows extremely well because of the amount of light it receives through this transparent material.

The stability and high level of impact resistance of the solid sheets, together with their relatively low weight compared with other materials, means that no costly substructure is required. Another advantage is that the material is easy to work with which makes direct handling on the construction site much easier.

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## Bayer MaterialScience

Bayer MaterialScience GmbH  
Otto-Hesse-Straße 19/T9  
64293 Darmstadt, Germany  
Tel +49 6151 1303-0  
Fax +49 6151 1303-500

[www.bayersheeteurope.com](http://www.bayersheeteurope.com)

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