

# Grand Stade de Lille (France)



## Project description

The Grand Stade de Lille, formally known as the Stade Pierre-Mauroy, is a multi-use stadium in Lille, France. It opened in August 2012, and will be one of the venues of the 2016 UEFA European football championship finals.

The stadium is notable for several reasons:

- half of its field can rise automatically above the other half to more optimally host music concerts and other shows
- it has a retractable roof
- and it is recognised as a HQE (High Quality Environmental green building standard) building, with its solar panels and two windmills

## mageba scope

To support the stadium's moveable roof, mageba supplied four large RESTON®SPHERICAL bearings. These were designed with a vertical load-carrying capacity of 31,500 kN each, and are of the guided sliding type, accommodating sliding movements of +/- 150 mm along one axis.

The bearings feature ROBO®SLIDE high-grade sliding material instead of the PTFE normally used in sliding bearings. ROBO®SLIDE offers much higher resistance to wear and abrasion than PTFE, and twice the strength. This means that a spherical bearing with ROBO®SLIDE can be designed to be much smaller than one with PTFE.

## Highlights & facts

### mageba products:

Type: RESTON®SPHERICAL bearings (31,500 kN)  
Features: ROBO®SLIDE high-grade sliding material  
Installation: 2011

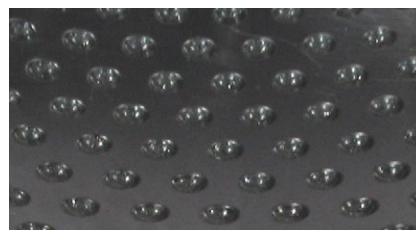
### Structure:

City: Lille  
Country: France  
Completed: 2012  
Type: Multi-use stadium  
Capacity: 50,000 spectators  
Roof weight: 72,000 kN

The stadium is located in the city of Lille in northern France



ROBO®SLIDE high-grade sliding material offers far higher strength and durability than PTFE



A RESTON®SPHERICAL bearing as fully fabricated, on a pallet for transport to site

