

Traffic Infrastructure Innovation by Integration of the Traffic and Parking Facilities

Volkhard ANGELMAIER
Corporate Officer
Licensed Checking Engineer
Leonhardt, Andrä und Partner
GmbH, Stuttgart, Germany
angelmaier@s.lap-consult.com



Volkhard Angelmaier, born 1959, received his civil engineering degree from the University of Stuttgart, Germany, in 1987. Since 2005 he is Independent Checking Engineer for all types of structures approved by the State of Baden-Württemberg

Summary

A new trade fair area for the State of Baden-Württemberg, Germany, the “Neue Messe Stuttgart”, is planned nearby Stuttgart Airport with a construction for parking decks across the autobahn A8 and the new high-speed railway Stuttgart – Ulm. The vision of parking over extremely large traffic lines (80.000 cars per day on the autobahn A8) becomes reality.

Keywords: Infrastructure innovation, New Trade Fair, traffic concept, fire protection, architectural concept, Chassic-Principle, structural system, Autobahn lid, main columns

1. Introduction

In spring of 2000 the first design investigation was initiated for the New Trade Fair at the Stuttgart airport. The winner of the design competition was the architectural firm Wulf & Partner (Fig. 1). Their proposal included a parking garage for more than 4000 cars located above the autobahn A8 and the prospective railway tracks of the connection Stuttgart - Ulm, which is part of the infrastructure project Stuttgart 21.



Fig. 1 New Trade Fair “Neue Messe Stuttgart”