

The new airport “Berlin-Brandenburg-International”

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Summary

The built environment, buildings, bridges, tunnels, towers, train stations and of course airports, are forming a large portion of our modern infrastructure. The size and the life time of our built infrastructure lead to a highly visible and permanent impact for our natural and urban environment. Combined with the complex functional and economical requirements of our modern civilization an integrative planning in interdisciplinary teams is necessary. The realisation of these requirements beginning from the preliminary design up to the supervision of the assembling will be described and illustrated by examples in this paper.

The new airport “Berlin-Brandenburg-International (BBI)” will become a worthy representative of engineering art and architecture.

Keywords: conceptual design, structural engineering, wide-span roof, pre-stressed façade

1. Introduction

The new airport “Berlin-Brandenburg-International (BBI)”, one of the biggest European infrastructure projects, will become a modern platform for the international aviation in Germany. BBI will be a transportation centre combining international and domestic flight connections with excellent road and rail services. The airport will accommodate 25 million passengers annually in the initial configuration and can be expanded for up to 45 million passengers.



Fig. 1: Urban concept of the new airport bbi (gmp, JSK / Visualisation: Archimation)