

SUCCESS STORY

STATIC BEARING FOR BUILDING

CANO Singen, Shopping centre, Germany

PROJECT DATA

Brief description

Thermal separation of structural components in a shopping centre.

Requirement

Avoidance of cold and/or thermal bridges and energy losses.

Country, year

Germany, 2020

PROJECT DESCRIPTION

ECE opens the Cano inner-city shopping centre in Singen after two and a half years of construction. The main structural features include a 16,000m² sales area on three levels and around 500 parking spaces on two floors above the sales levels. The form and expression of the landscape as well as regional characteristics are reflected in the architecture and design of the centre. Emphasis was placed on the use of special materials and technologies to increase user comfort and improve building performance.

Connections between steel and reinforced concrete components require thermal separation to avoid thermal as well as cold bridges. Similarly, the centre's large-scale façade systems can place a thermal load on the main structure. This required measures to create thermal breaks for use between multiple connections within the structural frame.

SOLUTION

Calenberg core compact bearings have been used between steel brackets and connecting components. The bearings were designed for thermal separation of structural connections and to insulate as well as to protect the internal building structures from excessive heating and cooling. The installation of the core compact bearings resulted in minimising energy losses and the risk of condensation, as well as improving the energy efficiency of the building.



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