

THE HOLLAND PERFORMING ARTS CENTER

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Application range

Cultural Facilities

Type

Reference

The \$95 million and 175,000 square-foot Holland Performing Arts Center in Omaha, Nebraska, named after Richard and Mary Holland, was designed by Omaha-based HDR in collaboration with Polshek Partnership Architects (now Ennead Architects LLP), New York and opened in 2005. The European design was inspired by Vienna's Musikverein (Austria). The performance facility offers the 2,000-seat capacity Peter Kiewit Concert Hall in a shoebox design, the Suzanne and Walter Scott Recital Hall with seating for 400, the John and Carmen Gottschalk Founders Room as a private room for donors and an outdoor performance and event garden.

In line with the specific acoustical requirements in a concert hall, TROX USA installed its Underfloor Air Distribution system type FBA. To isolate vibration and reduce and dampen all noise, air handlers, piping, ductwork, every mechanical and electrical system had to be suspended from rubber isolators or rest on rubber pads.

Due to the noise requirements in a concert hall, the air conditioning and ventilation system was provided with rubber isolators in a space under the concert hall to aerate the room above without noise disturbance. Vents were installed in the floor under the seats to silently supply air to the audience from the room below.

Floor diffusers are a good solution at locations which are not continuously occupied. They can be deployed at distances of as little as 40cm from seating. The TROX USA underfloor diffusers are produced in aluminium or plastic and are an attractive product due to their variety of surface structures and colors.

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