

Inspiring the Building Team

BUILDING DESIGN & CONSTRUCTION®

03-06



SOLVING A NOISY SITUATION IN COSTA RICA

The Building Team for a new emergency room facility at Calderón Guardia Hospital in Costa Rica was faced with a major acoustical problem when the only feasible location for two new 90-ton water chillers was adjacent to patient dormitories. Installed just four feet from the structural concrete wall, the chillers' rotary screw compressors let out a high pitch that measured as much as 67 dBA inside the facility.

With just three weeks to spare, the owner turned to local acoustic consultant Francisco Brenes, president of Ingeniería Consultoria Alfa. Brenes specified a perimeter acoustical barrier wall composed of sheetrock and a single layer of Acoustiblok sound isolation material to deflect sound out of the hospital walls. The job took just a week to complete and achieved a 20 dBA sound transmis-

sion loss, lowering the noise level under a manageable 47 dBA. "Previously installed walls in similar applications made out of concrete or concrete and Styrofoam cost more time and money, and are only half as efficient as the Acoustiblok solution," says Brenes.

Acoustiblok

Input No. **212** at
BDCnetwork.com/quickResponse

www.BDCnetwork.com - 03-06 - Building Design & Construct



111 South Wacker Drive
Chicago, Illinois