

DAVID L. LAWRENCE CONVENTION CENTER

INTERIOR MATERIALS AND RESOURCES

- ALLGREEN MDF FIBERBOARD FROM THE CANFIBRE GROUP, LTD.
- ARMSTRONG OPTIMA VECTOR
- MAHARAM WALLCOVERINGS
- ARMSTRONG ULTIMA VECTOR DRYWALL WITH RECYCLED CONTENT
- BENTLEY PRINCE STREET (ANTRON) CARPET
- BENTLEY PRINCE STREET HEALTHBOND 1000 ADHESIVE
- PPG PURE PERFORMANCE PAINT

BUILDING ENVELOPE AND EXTERIORS

- A BUILDING ENVELOPE OF STRUCTURAL STEEL WITH RECYCLED CONTENT (NUMEROUS SOURCES)
- BIRDAIR PTFE ARCHITECTURAL MEMBRANE / CHEMGLASS 1580
- ALUCOBOND PAINTED ALUMINUM COMPOSITE SHEET PANELS, FROM ALCAN COMPOSITES USA
- DOW CORNING 795/983/756 SILICONE BUILDING SEALANT
- DOW THERMAX
- EUCO DIAMOND HARD
- KUREZ W VOX (CONCRETE CURING)
- LINEL SIGNATURE SKYLIGHTS WITH VIRACON GLASS
- OVERLY STAINLESS STEEL SYSTEM
- OWENS CORNING FIBERGLASS INSULATION (IN THE PINK)
- PARKWAY BLOCK (CEMENT BLOCK WITH RECYCLED CONTENT)
- PPG GLASS AND GLAZING

MECHANICAL, HVAC SYSTEMS AND CONTROLS

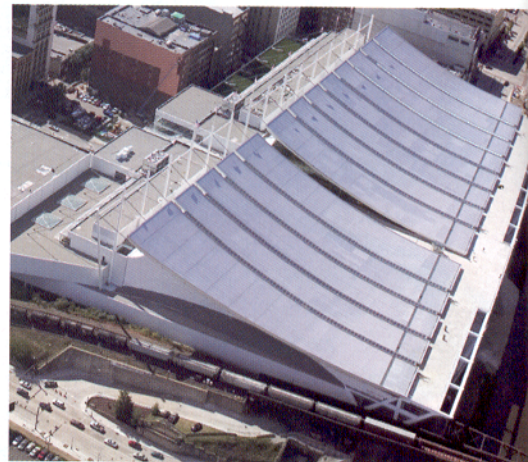
- ASEA BROWN BOVERI INDUSTRIAL SYSTEM VARIABLE FREQUENCY DRIVES
- DUCTSOX FABRIC DUCTWORK
- FIRE PROTECTION SYSTEM FROM MPF FIRE PROTECTION CO., INC.
- LEVITRON ODCOP PHOTOCCELL SENSORS, LIGHT SENSORS
- LUTRON VIMCO SHADING SYSTEMS
- OCCUPANCY SENSORS
- SLOAN ROYAL OPTIMA FAUCETS
- SOUND SYSTEM PACKAGE FROM LIGHTHOUSE ELECTRIC CO.
- ZENON ZEEWEED IMMERSSED MEMBRANE WATER FILTRATION SYSTEM

- **PITTSBURGH**
- **SUBMITTED BY SPORTS AND EXHIBITION AUTHORITY OF PITTSBURGH AND ALLEGHENY COUNTY AND THE GREEN BUILDING ALLIANCE, PITTSBURGH**

The David L. Lawrence Convention Center, completed in September 2003, is a 1.49-million-square-foot project located in downtown Pittsburgh. It has earned a Gold LEED certification and was named a winner of a Western Pennsylvania Environmental award in the green design category. The architect and design for this convention center were selected through an international design competition that considered sustainability, along with functionality and aesthetics. The earliest concepts of the project integrated green with the other excellence requirements for the project. In addition to the design excellence criteria recognized by LEED, this building exhibits design excellence through: the extent to which green features are integrated into the other building qualities; its precedent setting for a new building type; and its special contribution to the green urban redevelopment of the region.



The building faces the Allegheny riverfront by the Three Sisters Bridges, which were the architect's aesthetic inspiration for the building. The swooping roof is built like a suspension bridge, key to providing a vast amount of column-free space for the exhibit halls. The building relies heavily on natural airflow and daylight to significantly reduce the energy required for mechanical systems. Compared to conventional



construction, this building is projected to use about 35 percent less energy. Recycled water is used for toilets and urinals; and the underground aquifer supplies water for irrigation and water makeup. This saves more than half the drinking water requirements of a conventionally designed building, and generates almost no sewage burden. The water saved is enough to supply 132 Pittsburgh households. In demolishing the old convention center, 98 percent of the waste was recycled by crushing it into fill for this and other sites, converting would-be-debris into a useful material. The convention center held the U.S. Green Building Council's Greenbuild conference in 2003.

Congratulations to owner Sports & Exhibition Authority; architect Rafael Viñoly Architects, P.C.; mechanical/electrical/plumbing engineer Burt Hill Kosar Rittelmann Associates; structural engineer Dewhurst Macfarlane and Partners; owner's representative AMEC Construction Management, Inc.; construction manager Joint venture of Turner Construction Co., P.J. Dick, Inc. and Advanced Technology Systems, Inc.; green building manager Green Building Alliance (www.gbapgh.org/DLLCC.asp); and green building funders The Heinz Endowments, Pennsylvania Department of Environmental Protection and Community Energy.