

PROJECT PROFILE

MO-04

Client:

American Royal Association
1701 American Royal Court
Kansas City, Missouri 64102

Objective:

Combine pre-engineered building and conventional components to provide the structural design and materials for a large arena complex to be used for stock shows, conventions, and sporting events.

Performance Results:

Steel Erection Began June 1991
Owner Occupancy November 1992

Perspective:

The existing arena needed a complete overhaul to make it viable for the next century. Work included renovation of old facilities and additional space which made the complex four major buildings: an arena with office area, a central exhibition hall, another exhibition hall, and the Governor's building.



Location:

American Royal Arena Complex
1701 American Royal Court
Kansas City, Missouri 64102

End Use:

Arena and exhibition hall

Size:

282,000 square feet

Features:

Arena with 250' clearspan truss frame (52' height) and mill-strength sidewall columns 36' deep. Also featured in the complex are 82' radius (125' long) curved roof beams and panels and a 45' circular rotunda.

Structure:

Hybrid design combining pre-engineered building and conventional components and featuring a special gray primer on all steel

Walls:

Shadowrib® II metal wall system

Roof:

MR-24® metal standing seam roof system and curved Butlerib® II metal roof panels

Architect:

Black & Veatch Architects, Kansas City, Missouri

Engineering:

Black & Veatch Architects and BlueScope Construction, Inc., Kansas City, Missouri

Participating Builder:

Hoffman-Cortes Contracting Company, Kansas City, Missouri



BlueScope Construction, Inc.
1540 Genessee Street
Kansas City, Missouri 64102-1069
816-245-6000 • FAX 816-245-6099
sales@bluescopeconstruction.com