

ARCHITECTURAL ENERGY
CORPORATION
Integrated Engineered Solutions

Landside Terminal Denver International Airport

Denver, Colorado



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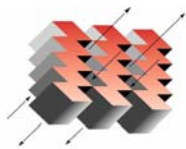
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The Jeppeson Landside Terminal at the Denver International Airport is the fusion of architectural design, structural design, and energy efficiency. The stressed-skin fabric roof structure covering the Great Hall presents a striking architectural form while at the same time providing exceptional energy efficiency and daylighting. 100% of the ambient lighting for both the Ticketing Hall and Great Hall is provided by the translucent fabric roof and clerestory windows respectively, while providing views to the sky and “sparkle” to the space. Other energy saving design features include high performance glazing on all fenestration; energy efficient electric lighting throughout; energy efficient mechanical systems; and an advanced energy management and control system.

Project Information: Landside Terminal Denver International Airport

Project Type	Landside airport terminal and associated administration and operations space
Client	City and County of Denver Denver, Colorado
Design Team	<i>Architect:</i> Fentress Bradburn Architects Denver, Colorado <i>Energy/Daylighting/Sustainable Design Consultant:</i> Architectural Energy Corporation with LightForms Boulder, Colorado
Size	1,500,000 ft ²
Location	Denver, Colorado
Cost	\$3.2 billion
Year Constructed / Occupied	1992 / 1995
Sustainable Design Features	<p>Aggressive load reduction through high performance glazing, daylighting, energy efficient electric lighting, and an advanced energy management and control system.</p> <p>Majority of daytime ambient lighting provided by daylighting in the Great Hall, ticketing, and baggage claim areas.</p> <p>Fabric roof, with clerestory windows, provides 100% of the daytime ambient lighting while maintaining views through side and end "vision preserving" windows.</p> <p>Clerestory windows in Ticketing Hall provide 100% daytime ambient lighting while providing views to the outside, controlling glare and creating a calm, peaceful, luminous environment.</p> <p>Energy efficient electric lighting throughout with multi-level lighting controls.</p> <p>Energy efficient mechanical systems with variable volume air handling, variable frequency drives on all fan motors and pump motors, and an advanced energy management and control system.</p>



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