



# JAMES ARMSTRONG RICHARDSON AIRPORT TERMINAL BUILDING

## ABOUT THIS PROJECT

- + Includes a 22-gate, two level terminal and four level parking garage that replaced the existing terminal servicing international and domestic passengers.
- + Met the requirements for the commercial building incentive program (CBIP) and LEED certification.
- + First airport in Canada and the second in North America to receive a LEED certified rating.
- + Designed the mechanical systems in a joint venture with SMS Engineering and TMP.
- + Some features include radiant cooling, heating and heat recovery.
- + Smith + Andersen used the vast knowledge base of other airport projects to streamline the design into the architecture.
- + Mechanical systems include a combination of variable air volume and constant air volume systems with glycol heat recovery on exhaust air systems, waste heat recovery from heat pumps for use in low temperature heating water systems, and in-slab hydronic radiant floor heating and cooling systems.
- + Generate high temperature heating water and chilled water in the central utilities building (CUB) that is received by the terminal for distribution.

**LOCATION**  
Winnipeg, MB

**SMITH + ANDERSEN  
SERVICES PROVIDED**  
Mechanical

**KEY TEAM MEMBERS**  
Stantec Architecture Ltd.

**SIZE**  
570,487 sq. ft. (53,000 sq. m.)

**BUDGET**  
\$220 Million

**COMPLETION YEAR**  
2011

**SUSTAINABILITY**  
LEED Silver

## HOT BUTTONS

AIRPORTS / AVIATION

LEED SILVER

SUSTAINABLE DESIGN



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