



CANADIAN LIGHT SOURCE INC. SYNCHROTRON PROJECT

Saskatoon,
Saskatchewan

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Dofasco Steel Design, 2004)

Design and Construction Team

Owner: University of
Saskatchewan

**Project and construction
manager:**
UMA Group.

Building designer:
UMA Engineering.

**Architectural design
subconsultant:**
AODBT Architecture and Interior
Design.

Building envelope contractor:
PCL Maxam, A Joint Partnership.

Structural steel: Supreme Steel Ltd.

**Steel cladding and roof deck
installer:** Flynn Canada Ltd.

Steel cladding supplier:
CMRM Div. Roll Form Group.
T: 1-800-233-6228



Galvalume Plus™ Cladding Helps to Enclose “Field of Beams”

The biggest science project in Canada in more than 30 years has recently been completed at the University of Saskatchewan in Saskatoon. Started in July of 1999, the Canadian Light Source Inc. synchrotron was commissioned in spring of this year. The \$173.5-million, 6-storey, stadium-sized building is a unique national facility that will light the way to a new era of science and innovation for both academe and industry.

The concept conceived for the building utilizes materials in a contemporary fashion, and in a way that responds to the building's program. The synchrotron facility is a 12,700 m² (136,700 ft²) structural steel framed building. The main hall accounts for 6,806 m² (73,260 ft²). The facility is clad with 2,230 m² (24,000 ft²) of Dofasco's .91 mm (.036") unpainted AZ180 Galvalume Plus™ steel. The P300 profile cladding, supplied by CMRM, was installed by Flynn Canada.

A synchrotron acts like a gigantic microscope that generates intense beams of brilliant light to view the microstructure of materials. It produces extremely bright light—millions of times brighter than the sun. The CLS is one of only a handful of “third-generation” synchrotrons in the world. They make it possible to do such things as medical imaging faster and cheaper and to “see” much smaller entities than has been possible before.

As Lawrence Dressel, partner in charge of the CLS conventional facilities design for AODBT Architecture and Interior Design,



states, “By utilizing strategically placed clear glazing, screened glazing and opaque panels we felt we could relate symbolically the function of the building to the campus.” Lawrence goes on to say, “The Galvalume Plus™ steel cladding also provides the additional benefit of being relatively maintenance free.”

An interesting sidelight of this project is that “universities pretty much from coast to coast have been attracting new faculty with the bright shiny lure of the Canadian Light Source.”



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