

SarnaProof

PROJECT PROFILE
Centre Street Church
Calgary, Alberta



Project

Centre Street Church
Calgary, Alberta

Owner

Centre Street Church

Roofing Contractor

Skyline Roofing Ltd.

Architectural Firm

Woods Parker Architects

Roofing Systems

Sarnafil Décor Roof System, 60-mil,
adhered, G410 feltback membrane in
Lead Gray

Project Size

71,000 square feet

Completed

April 2004

Church Revival

The Centre Street Church had outgrown its small home. Tucked away in one of Calgary's industrial parks, the House of Worship was unable to accommodate its growing numbers at Sunday morning mass.

A few blocks away from the building sat a vacant 17-acre drive-in movie theatre. As soon as the Church was able to raise enough money, they bought the empty lot and began planning their expansion.

With the help of Woods Parker Architects, Calgary, Alberta, the Church dreamed of a 120,000-sq.-foot facility on the land, one that would be striking at first glance.

"The client wanted to make the roof an important aspect of the design," said Kelly Janz, project leader for Woods Parker. "A flat-top roof wasn't what we or the owner wanted. Instead, we wanted to contrast the Church's surroundings. Since there are a lot of one- and two-story flat roofs around, the roof became an essential element of the design."

Normally Woods Parker would suggest a

metal, standing-seam roof for a building of this stature, to add interest and color to the roof plane. In this case, however, they needed water-tight protection and a membrane that wouldn't stress the tight budget. Sarnafil's Décor Roof System met both these criteria.

"There were less expensive systems that could have been applied, but they wouldn't provide the type of long-term protection that the Church required," said Bill Arnott of Skyline Roofing Ltd., Sarnafil's Elite contractor in Western Canada. "When the project team reviewed the proven longevity of the Sarnafil roofing system, the cost of installation and expected annual maintenance, they found that the Sarnafil system was the obvious choice at a competitive cost."

The Church liked the Décor Profile rib, because of its durability and aesthetics, while the building team appreciated its flexibility.

"One of the major advantages of the Décor Profile is that you can change the spacing of the ribs to suit your look or budget," said Janz. "When the roof was being constructed

we reduced the number of meters of ribbing we required, therefore reducing the expense. This helped us maintain the look and still bring it in within budget."

Steep Installation

The team began their work in the fall of 2004 and toiled throughout the winter in less-than-desirable weather conditions.

"Trying to get the building water-tight was a challenge and a necessity because of the Calgary winter," said Janz. "Winter construction made the speed of the membrane roof a real asset!"

This turned out to be the greatest benefit of the Church's Décor roof. With 71,000-sq.-ft. of membrane to install, the system allowed them to work gradually while sealing each section individually.

"The winter weather also posed a safety issue," said Janz. "Our crews couldn't go up if there was any type of moisture on the roof. Sometimes that meant that they'd only be up there at noon and in the winter they lost their light around 4 p.m. It made for short work days, but because it was a membrane roof, we could just pick up where we left off."

Fall protection was installed along the roof's ridges because of its slope and three- and four-story elevations.

Over the existing metal Q-deck, the team installed a 6 mil poly vapor barrier and sealed all overlapping edges and penetrations. Next, they mechanically fastened 2.7" of polyisocyanurate insulation directly to the deck and fully adhered the 60 mil Sarnafil lead gray membrane. As each sheet of the Sarnafil membrane was installed, the overlapping edges were then hot-air welded using Sarnafil's Sarnamatic hot-air welder. This was all accomplished in very short order, and allowed many other trades to start their applications keeping the project on schedule.

"One of the most critical steps was welding the ribs onto the membrane, which would have the greatest impact on the aesthetics of the finished roof," said Lyle Bushey, Sarnafil Field Technical representative on the project. "Sarnafil's automatic welder with a patented adapter kit welds the polymer rib to the field sheet. It was critical to the success of the project, particularly at these slopes, where even the welder had to be tied off



Close up view of the Décor Profile on the Centre Street Church in Calgary, Alberta Canada.

just like the men were."

The project was completed by early Spring.

Not just any Church

The Centre Street Church opened its doors in April 2004. Complete with a 2,400-seat auditorium, an administration wing and a trademark galleria with a 60-foot glass waterfall and the ability to seat 700 people at a fellowship supper.

Since then, its 5,000 members have almost maxed out the space attending weekly services, Christian children's programming and adult education classes. The Center is so busy it doesn't have time for a leaky roof.

"We've been very happy; the roof has required no maintenance at all," said Cam Wright, operations officer for the Centre Street Church.

Inside and out, the Church has added so much to its surrounding neighborhood.

"It's a fabulous looking building elevated above an industrial park," said Arnott. "It's such a visible structure, with different elevations to its roof. It's really a centerpiece for the community."

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