

QUAD-LOCK[®] PROJECT PROFILE

PLACES OF WORSHIP

Places of worship can be as different in design as the make up of its congregation. They can be simple structures with clean building lines or, they can be beautiful ornate buildings incorporating many architectural design elements. Not only do they serve as a focal point for their congregation, but like any other structure,



they have to be practical. They need to be energy efficient, quiet, and safe buildings that will stand up to the test of Father Time and the ravages of Mother Nature. Quad-Lock's Insulating Concrete Forms (ICFs) combine these benefits and more, to bring the most versatile and highest quality ICF to the construction industry. Because construction and maintenance costs generally are paid for by the congregation, funds must be spent wisely. Worshippers at Surrey Pentecostal Church can take comfort in knowing that their new Church will start to save them money right away, with lowered energy and ongoing maintenance costs each month. Other construction methods cannot offer those same savings.

The Church was originally designed with cast-in-place construction in mind. ICF construction wasn't even a consideration until after the plans were drawn. Because it was impossible to find a contractor and crew to work on a cast-in-place project in the desired timeframe, the search for another method of construction began. ICF construction became an attractive alternative since it allows even the first-time contractor and crew to get up to speed quickly.

Quad-Lock's forming system is cast-in-place but the forms are not stripped and remain in place to provide insulation for the wall structures. Because the plans were originally drawn for 8" cast-in-place concrete, Quad-Lock easily adapted saving both time and money. Quad-Lock walls can be virtually any thickness, so there was no need to re-draw plans to incorporate the use of the Quad-Lock ICF.



According to Herb Maretz, one of the Project Managers and a member of the Church, "the single biggest reason for choosing Quad-Lock was because labor shortage was not an issue. A qualified contractor was available to begin construction right away and the product was locally available. As an added bonus, it turned out that the product was also competitively priced." Just as Herb began the selection process for an ICF supplier, he was put in contact with Doug Saunders of Planet E Construction. Once Doug was hired, the decision of who's ICF was quickly narrowed down to Quad-Lock, since Doug had previously worked with Quad-Lock.

Months earlier, Doug built a 20,000 sqft music building for a local University using Quad-Lock, "The Quad-Lock ICF was a perfect fit for the University since the plans called for 23 practice rooms. The sound resistance that Quad-Lock offers made it possible for students to practice in a room and only hear their music" stated Doug. He also liked the energy efficiencies and the quick construction time that was available to him by choosing

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Quad-Lock's ICF. All of which Doug felt, were an ideal fit for the new Church.

Construction began on the 25,000 square foot Pentecostal Church in March, 2006. The Church stands two and three storeys tall. The 26' high sanctuary holds 1,000 people and has classrooms on the first and second floors as well as a multi-purpose room and a full kitchen. Even the elevator shaft is built out of Quad-Lock.

Sound resistance was an important factor for choosing ICF. All exterior walls were formed with Quad-Lock's ICF that forms an 8" concrete wall cavity producing an extremely effective noise buffer. Built at the intersection of a busy highway, thousands of vehicles will pass by the Church daily. Not only will the concrete walls help to keep the loud traffic noise outside, but it will also contribute to the peace and tranquility inside.



The expected energy savings also played a large part in choosing Quad-Lock. While energy costs continue to rise, the expected energy savings of up to 70% are a great comfort to the Church congregation. The concrete walls have high thermal mass which moderates the interior of the building from outdoor temperature swings. If these significant energy savings can be found in the mild British Columbia climate, just imagine the savings on a Quad-Lock structure located in a climate with more extreme temperature fluctuations.

Maintenance costs will also be less since concrete does not rot, the structure will literally be safe and solid for centuries. Ultimately this means that the money that would have been spent on monthly operating and maintenance costs can be spent on other Church activities or simply stay in the pockets of the congregation.



Doug is sold on building with Quad-Lock's insulating concrete forms. He recently started construction on his next project – a large, custom house. Doug prides himself on building projects that are 'different' from the norm. 'Not only am I using a different building technology, but at the end of the day, I feel good about building responsibly using sustainable building practices.'

Quad-Lock has proven itself as the manufacturer of the most versatile and highest quality insulating concrete forming system on the market and customer satisfaction is its mission. For more information on Quad-Lock and its products visit www.quadlock.com, email info@quadlock.com or call 888.711.5625.