

**QUAD-LOCK**<sup>®</sup>  
Insulating Concrete Forms

# Worship Facilities Initiative



**Build Responsible**

**Build Sustainable**

**Build Energy Smart**

## **Benefits for YOUR Worship Facility**

Quad-Lock's Worship Facilities Division provides consulting services to church boards, designers and contractors to assist in understanding how best to utilize and maximize the benefits of Insulated Concrete Forms in the specialized construction of Worship Facilities.

*Build **Sustainable** for Fiscal Responsibility...*

Insulating Concrete Forms for Walls, Floors & Roofs

# Quad-Lock Building Systems

## Energy Savings

With the ever-increasing energy costs for heating and cooling, those involved with church planning and construction should be aware of “green” and energy efficient construction methods that can help control the energy demand of the completed structure. Insufficient and/or ineffective insulation of the church building ends up saddling the congregation with formidable and mounting energy bills. When incorporated in the exterior wall, floor and roof design of an “energy-wise” structure, Quad-Lock Building Systems’ insulating concrete forms can help control and reduce energy demands by as much as 70%. Passive air conditioning features that incorporate vertical design elements such as a steeple or bell towers can easily be constructed with Quad-Lock’s system to enhance the cooling of the structure and further reduce the building’s energy consumption in warmer climates.



*“This project demonstrates Quad-Lock’s adaptability to complete large tall wall projects without internal floor support required in the open design of these types of facilities.” states Hannis Latham of Arizona Radiant Heat on the construction of Immaculate Conception Catholic Church in Arizona*

## Sound Control

The materials used in the Quad-Lock’s building system provide significant noise control benefits - an important consideration for multi-use Worship Facilities - for you and your neighbors.



Using Quad-Lock’s insulating concrete forms for interior walls and between floors within the Worship Facility is proven to significantly reduce sound transmission. Whether your concern is high noise levels in youth program rooms, peaceful worship centers, or even containing gymnasium noise in your church’s school, Quad-Lock can provide an STC rating of 50+.

# Simply a Better Building System

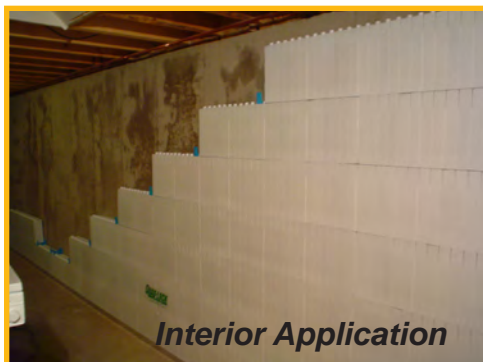
## Design Flexibility

The diverse and creative architectural elements often desired in worship facility construction can be more easily facilitated with Quad-Lock's building system. Quad-Lock can be formed to create pilaster columns of any dimension, arched doors or windows, curved wall elements for exterior or interior walls, multiple angle wall construction, free spanning structural beams for stage openings, and large open areas with useable space on upper floor levels. Quad-Lock's system can assist in providing fire ratings up to 4 hours and wind/tornado resistance through the use of the reinforced concrete design. Our Quad-Deck product can be incorporated into energy efficient roofing design, structural floor applications and tilt-up insulated exterior walls.



## Re-Insulation of Existing Facility

Is your existing Worship Facility devouring a disproportionate share of your operating budget on expenses for heating and cooling the structure? Quad-Lock's R-ETRO System can easily be installed on interior or exterior wall surfaces – even one room at a time to minimize disruption to your congregation. By adding an insulation value of R-18 to the existing structure's exterior walls you will soon reign in your ongoing heating and cooling expenses so budget dollars can be put to better use. Quad-Locks R-ETRO System can also be installed on your drywall ceiling to help decrease the radiant heat gain or loss through the building's roof.



# Build Sustainable for Fiscal Responsibility...

## Why a Worship Facilities Division?

We listened to the frustrations expressed by numerous architects and builders that we've worked with: they want and need sales and design assistance to integrate knowledge and experience with building code compliance, general construction experience, and hands-on design/build expertise with insulating concrete form materials and methods. They need answers to complicated construction questions and creative, innovative engineering collaboration for the inevitable on-site challenges every project faces. We also realize and appreciate the unique design characteristics and use challenges of modern Worship Facilities.



The Quad-Lock Worship Facilities Division brings a broad range of commercial construction and building code experience to address these issues. We can assist in creating construction details, shop drawings and budget estimates. Our network of contacts can put you in touch with scores of suppliers for useful and cost-saving accessories. We're even willing to do some hands-on assistance during construction if that's what it takes to get your project moving and keep it on track for time and budget. Our intention is to provide one point of contact to assist you all the way through your Worship Facility project: from the initial design phase, through cost estimating and bidding, to completion of a well-constructed, comfortable, cost efficient and long lasting Worship Facility that serves your congregation for many years to come. We're here to help in any way we can!

## Worship Facilities Division Members

### D.J. Ketelhut - North American Sales Director

Direct Phone: 269-744-0254      email: dj.ketelhut@quadlock.com

*D.J. has an extensive background managing sales and operations for construction material suppliers. In this role, he has been directly involved in large project sales of Quad-Lock and Quad-Deck for commercial buildings including churches. D.J. and his team will help oversee the sale, negotiation, planning, and support necessary to make YOUR project a success.*



### Douglas Bennion - Manager, Training and Technical Services Department

Direct Phone: 1-888-711-5625 ext. 222      email: douglas.bennion@quadlock.com

*Douglas has more than 30 years of experience with all types of concrete construction and has been a key member of Quad-Lock's design team since the product's inception in 1993. Douglas is a member of the Insulated Concrete Forms Association codes and research committee, completing the implementation of code language for the International Building and Residential Codes. Douglas' expertise within the construction industry contributes greatly to keeping your worship facility project focused and on track.*

### Zoran Prostran - Engineering Technologist, LEED AP and Technical Drawing Specialist

Direct Phone: 1-888-711-5625 ext. 237      email: zoran.prostran@quadlock.com

*Zoran facilitates the CAD design and construction detail implementation for Quad-Lock. Zoran graduated with Honors from the Southern Alberta Institute of Technology and has been a member of the Quad-Lock technical and design team for over 7 years. Zoran is an expert at working with large scale designs and liasoning with engineers and architects.*



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**QUAD-LOCK**

888.711.5625  
604.590.3111

Head Office: 7398 - 132nd Street  
Surrey, BC Canada V3W 4M7

www.quadlock.com  
info@quadlock.com