

MASONRY

The Voice of the Masonry Industry

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BRICK AND BLOCK

Case Study

Introduction

- The current flashing details in the 2013 International Residential Code (IRC) for sloped roof/wall intersections are very difficult to construct.
- ➔ As a result, most typical construction does not use any type of through-the-wall flashing which results in leaky wall complaints.
- Test panels constructed using the IRC detail and typical construction practices were built and tested in the lab.
- Additionally, an alternate flashing detail was evaluated and compared to both the IRC detail and typical construction practices.

The alternate detail, proposed by Bryan Light of the Brick Industry Association (BIA) – Southeast Region, was found to provide equivalent performance to the IRC flashing detail while being much easier to construct.

QUIKRETE Helps Southlake to Serve and Protect

NEW EMERGENCY RESPONSE AND TRAINING CENTER FEATURES INTRICATE MASONRY DESIGN

In 1997, the City of Southlake, Texas, established the Crime Control and Prevention District (CCPD) as a resource for reducing crime, increasing public safety and improving quality of life for its residents.

Recently, CCPD continued its mission by opening the Southlake DPS North Training Facility, a nearly 30,000-square-foot campus that offers emergency response and serves as the training facility for the next generation of police officers and firefighters. Artisan Masonry Inc. used QUIKRETE mortar to deliver waves of contrasting colors and course design befitting this invaluable community asset.

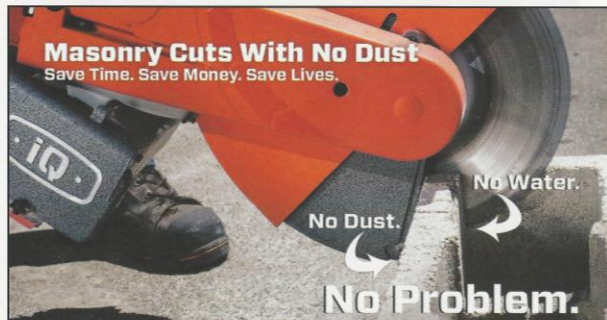
Complete with firing range, police and fire departments, medical center, auditorium and classrooms, Southlake DPS North Training Facility has a look created by alternating courses of recessed and protruding bricks of various colors, along with stacked bond arches large enough to accommodate fire engines.



In addition, cast stone panels and cast stone cornice were used to accent doors, windows and walls. Artisan Masonry applied nearly 160,000 modular bricks and more than 22,000 concrete masonry units with QUIKRETE Mason Mix Portland Lime Type N (PLN) Mortar in two custom shades of brown and QUIKRETE Mason Mix Portland Lime Type S (PLS) Mortar in gray. The two Southlake DPS North Training Facility signs were sculpted into the building with custom clay brick letters.

"This was a very intricate project that required exact precision to get all the beautiful brickwork details right," says Bobby Gladu, president of Artisan Masonry Inc. "It's a mason's dream to build a monumental structure that will stand the test of time like Southlake DPS North Training Facility. We use QUIKRETE on all of our projects because of the consistency of their colors and strengths, which is very important in doing an intricate project of this nature."

In addition to enhanced productivity and reduced labor costs on the project, the use of a bulk mortar silo system helped minimize construction waste. This helped Southlake DPS Training Facility secure U.S. Green Building Council's Leadership in Energy & Environment Design (LEED) recognition.



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