

Medical Center of Trinity

PROJECT DETAILS

Client:	Wal-Mark Contracting Group
Location:	Trinity, Florida USA
Date:	1st Quarter 2018 to March 2019
Contract Scope:	Product selection, material supply, technical support, engineering judgments for firestopping and expansion joints.
Applications:	Firestopping of penetrations and fire-rated construction joints. Fire rated expansion joints. Photoluminescent exit path markings.
Technologies:	Firestop spray and sealant technologies. Expansion joint systems with 2 and 3 hour fire ratings. Photoluminescent exit path markings to provide a lit path during emergency egress.



Photo credit: Tampa Bay Times

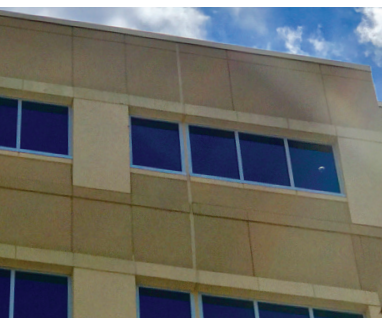
KEY CHALLENGES

The booming growth of Trinity, FL and the surrounding area necessitated expansion of the hospital to meet the demand of the growing population. The addition project included a 14-bed observation unit and 36 medical surgical beds as part of completion of the 5th floor and shell space for future expansion of an additional floor.

Several unique firestopping challenges were met on this project, from head-of-wall spray firestop to metallic and non-metallic pipes, HVAC ducting, and electrical cabling. In addition there were several shared openings used by the various trades that required UL listings and engineered judgments.

Hospitals in the state of Florida require all floor expansion joints to carry a 3 hour fire rating, while wall joints typically require a two hour rating. One of the major challenges was at the transitions from the floor to the wall where the fire rating must be maintained.

To adhere to building code requirements for egress paths, non-electric markings were needed for stairwells to promote safe and speedy navigation in an emergency.



SOLUTION

RectorSeal was able to develop and issue design recommendations for firestopping which met with the approval of both the Project Designers and local building authorities. With RectorSeal's wide range of chemically compatible firestopping products, including an industry-first UL-passed membrane penetration for a 45-degree angle, all challenges were met with convenient products and decades-long expertise.

To meet the need of fire-rated expansion joints, Balco provided the expansion joint systems with a 3-hour fire barrier for all floor expansion joints and 2-hour fire barrier for all wall joints. Balco's exclusive MetaBlock fire barrier provides ease of installation for the contractor, especially when splicing and transitioning from the floor to the wall. Balco also provided a solution for the vertical exterior expansion joints on this project, a high-performing, pre-compressed foam seal.

Additional safety solutions were provided by Balco's IllumiTread™ line for egress stairwells. The non-electric, non-radioactive photoluminescent exit path products comply with International Building Code requirements, and they promote intuitive, safe egress of occupants (and navigation for first-responders) in the event of a loss of power in an emergency.

PRODUCTS

Metacaulk® 1200, Metacaulk 1000, Metacaulk 150+

BHS/BHSL expansion joint system with MetaBlock 3 hour floor fire barrier

WD expansion joint system with MetaBlock 2 hour wall fire barrier

BCSW Exterior vertical pre-compressed expansion joint system

IllumiTread™ photoluminescent exit path markings including handrail, landing and obstruction demarcation, stair nosing and signage

BENEFITS

RectorSeal's products were chosen over competitors for their convenience, reliability and because of being the first with UL on 45-degree angle membrane penetration.

Installation of Balco's MetaBlock is VERY fast, easy, versatile and intuitive. All ratings can accommodate joint movement $\pm 50\%$ up to $\pm 100\%$.

Compressed foam for exterior joint passes sound transmission testing, air leakage testing, water penetration testing, and movement testing up to $\pm 50\%$.

Unmatched quality in IllumiTread™ package that surpasses testing and has over 25-year lifespan.



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