



CASE STUDY

The Edgar A. Newell II Memorial Golden Dome At Ogdensburg Free Academy



Architect:

BCA Architects & Engineers
www.thebcgroup.com

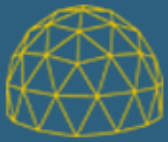
Contractor:

Upstate Spray Foam
www.upstatesprayfoam.com

Manufacturer

Firestable™ Insulation Company
www.firestable.com

Project Specifications



80,000 FT²

1,300

ALUMINUM
ROOF PANELS

17,760

LIN FT.
OF SEAMS



3 APPLICATORS
12 HOUR DAYS
2 WEEK INSTALL



51 SETS
FS 2.0
CHARCOAL GRAY

THE PROJECT: Preserving a Community Landmark

Dedicated in 1972, the Edgar A. Newell II Memorial Golden Dome at Ogdensburg Free Academy is a geodesic domed athletic facility located in Ogdensburg, NY. The landmark 80,000-square-foot building houses a fieldhouse and ice hockey rink that has served the local community for five decades. The building was prefabricated in California by Temcor Inc. and transported to Ogdensburg, NY by railroad car. In 2026, four years after celebrating its 50-year anniversary, the facility was due for upgrade to improve performance and extend its service life. BCA Architects & Engineers selected Firestable FS 2.0 for installation on the dome's ceiling: a single-application, all-in-one thermal barrier spray polyurethane foam.



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THE CHALLENGE: Meeting Code Compliance with One Pass

The intended use of the building presented a unique challenge. The architects sought a code-compliant insulation product that would act as an air, water, vapor, and thermal barrier, in a single-pass application. The building consists of 1,300 aluminum roof panels with numerous aluminum extrusions and 17,760 lineal feet of silicone sealed joints. Given the building's age and construction, it had become susceptible to storm water leaks over time. With constant fluctuations in humidity, condensation, and temperature, conventional spray foam systems that require protective topcoats would introduce additional installation complexity, ongoing maintenance, and potential long-term performance concerns in the arena's roof.

THE SOLUTION: Firestable™ FS 2.0

Firestable FS 2.0 was selected because it is the only closed-cell spray polyurethane foam (SPF) available that met all project requirements in a single application. Fully certified to the IBC, IRC, and NFPA 275, FS 2.0 provided the insulation performance and code-compliant fire protection without the need for additional thermal barrier coatings. Using FS 2.0 streamlined the installation process, reduced labor and material costs, and allowed the insulation to remain exposed. For this project, FS 2.0 Charcoal Gray was selected to provide a clean, finished appearance. By combining insulation, code compliance, fire performance, and finished appearance into one system, the installation team completed the project in approximately two weeks. Once spraying was complete, the facility was ready to return to service immediately, without additional time or expense associated with applying and curing separate protective coatings found with conventional SPF systems.

FS 2.0 HIGHLIGHTS

- Thermal Barrier Certified by QAI Laboratories (NFPA-275 and IBC 2603.9)
- Air, Water & Vapor Barrier
- Monolithic (fire protection throughout complete volume of product)
- One-product application
- No intumescent coatings required
- Utilizes conventional spray foam equipment used throughout the industry
- Available in Charcoal Gray & Cloud White
- Firestable™ on site Tech Team's hands-on approach ensures project success



NOTE FROM THE ARCHITECT

BCA Architects & Engineers is a 120-person multidisciplinary firm with seven offices across New York State. The firm's practice is anchored in public and institutional work, serving K-12 schools, higher education, healthcare, state agencies, and municipal clients. BCA provides advisory consulting services to help clients navigate the complexities of the built environment, from rehabilitating existing buildings to designing new high-performance buildings for the communities it serves.

"Really unique, fun project that went really well using this innovative material."

— Kenneth Gates, Upstate Spray Foam