



East Prairie Elementary School



Project Overview

Project
East Prairie Elementary School

Completion Date
Summer 2019

Location
Skokie, IL

Owner
East Prairie School District

Building Type
Educational

Kingspan Product Installed
Kooltherm K8 Cavity Board

Architect
STR Partners

CM
Gilbane

Masonry Contractor
Mastership Masonry

Metal Panel Contractor
Weisbrook Sheetmetal

Distributor
Northfield Block

Sq. Ft
124,000

East Prairie Elementary School is designed to house 700 students in grades Pre-K and Kindergarten through 8th Grade in Skokie, Illinois. The owner of the new school wanted to meet construction standards that would be durable for years to come.

Highlights

- 124,000 square foot building features 35,000 SF of Kingspan Kooltherm K8 Cavity Board
- \$47 million project first called for 2" mineral fiber continuous insulation and 1" spray foam
- Using Kingspan Kooltherm K8 the owner saved time and money, eliminating a trade and increasing the R-value to 16

Challenge

The original design called for 2" mineral fiber continuous insulation and 1" spray foam in the cavity. The architect wanted to meet minimum code requirements, which was R-13 2015 IECC for energy efficiency purposes. The architect attended a lunch and learn program presented by Kingspan Regional Market Manager, Jonathan Cobb, while in the early stages of the project and was intrigued by Kooltherm K8.

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Those involved, the architect, general contractor and applicator, had never used Kooltherm prior to this project.

Kingspan Kooltherm K8 Cavity Board is a premium performance insulation product, with a fiber-free rigid thermoset phenolic core, faced on both sides with a low emissivity composite foil facing which is used for insulation in partially filled cavity walls. With an R-value of 16 on 2 inches, K8 has a higher R-value per inch than any commonly used insulation and the lowest flame/smoke rating for any foam plastic rigid board. Because of its lightweight design, handling the board is easy and reduces overall installation time.

Kingspan Kooltherm K8 Cavity Board's low emissivity composite foil is adhesively bonded to the insulation core during manufacture. Its reflective surface improves the thermal resistance of any unventilated cavity adjacent to the board. The core of Kooltherm K8 is manufactured with a blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP).

Solution

Instead of using a 2" mineral wool and 1" spray foam to achieve an R-value of 13 on the brick and metal panel building, the architect chose Kooltherm K8, which enabled the project to exceed all code requirements at R-16 with a consistent 2" insulation.

Kingspan Kooltherm K8 helped eliminate the need of spray foam so one trade was removed, saving up to \$1.43 per square feet. Having one contractor instead of two coming in on the project also saved time. By utilizing the Kingspan Kooltherm K8, the customer has a better performing insulant and they were able to remove the insulation in the cavity as it was no longer needed.



