Hunter Xci CG insulation enables thinner walls while meeting NFPA 285 fire requirements in school's two wall assembly types

To meet Americans with Disabilities Act (ADA) requirements and to provide key amenities for students, including a separate cafeteria and gym, the Shawnee Mission School District (suburban Kansas City) is demolishing and rebuilding its Brookwood Elementary School. The new 76,500 sq. ft. school in Leawood, Kansas, will serve approximately 370 students in kindergarten through sixth grade.

When students and teachers return to the newly built school in 2019, high-performance Hunter Xci CG insulation in the walls will help keep them warm and safe.

Kevin Patterson, director of specifications for Hollis + Miller Architects, explains that the design team chose polyiso insulation for its high R-value, which allowed them to create thinner, more cost-effective wall assemblies. Additionally, Patterson notes that Hunter Xci CG polyiso insulation specifically has been tested for NFPA 285 fire test compliance in a range of wall assembly types, including the ones in Brookwood Elementary:

- Stud wall backup with sheathing, air barrier coating with rain screen furring
- Concrete masonry unit backup with air barrier coating and either brick veneer or metal panel finishes

Commenting on Hunter Panels’ NFPA 285 resources, Patterson says, “The Hunter website had very useful information, as well as details illustrating all the parts and pieces of the assembly, which makes my job much easier. We specify Hunter Panels polyiso insulation on the majority of the educational, commercial and governmental projects we design.”

Hunter Panels Xci CG is a high-performance, thermally efficient rigid insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to premium performance coated glass facers on both sides. The product has passed NFPA 285 testing in numerous wall assemblies.

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**MAKING OUR CASE**

**Job Name:** Brookwood Elementary School  
**Location:** Leawood, Kansas  
**Product:** Hunter Panels Xci CG polyiso insulation  
**Architect:** Hollis + Miller (Kansas City, Missouri)  
**Construction Manager:** J.E. Dunn Construction  
**Job Insights:** Hunter Panels Xci CG polyiso insulation enabled the design team to create thinner, more cost-effective wall assemblies while also meeting NFPA 285 fire test standards and International Energy Conservation Code (IECC) insulation requirements.