

## CASE STUDY

ACOUSTICAL CEILINGS FROM BPB

# Celotex<sup>®</sup> BRAND

CLASSIC MINERAL CEILING SYSTEMS

# Capaul<sup>®</sup> BRAND

HIGH PERFORMANCE CEILING & WALL SYSTEMS

• Cashmere<sup>®</sup> • Fine Fissured

• VinylShield<sup>™</sup> A



*A new physical therapy workout room in Crittenton Hospital utilizes Celotex<sup>®</sup> Brand Fine Fissured and Cashmere<sup>®</sup> acoustical ceiling panels to help spread the flow of natural light that shines in from the glass outside wall.*

## CRITTENTON HOSPITAL MEDICAL CENTER

Project:	Crittenton Hospital Medical Center
Location:	Rochester Hills, MI
Architects:	Albert Kahn Associates, Detroit, MI
Construction Manager:	Barton Malow Company, Southfield, MI
Distributor:	Oakland Building Materials, Auburn Hills, MI

### BPB's Celotex<sup>®</sup> & Capaul<sup>®</sup> Brand Acoustical Ceilings help brighten Crittenton Hospital

Since 1967, Crittenton Hospital Medical Center has maintained its commitment to improving the health as well as the interior environment for the residents of Rochester Hills and surrounding communities. They renewed that commitment with the inception of a four-year \$86 million expansion and renovation project, which includes Celotex<sup>®</sup> & Capaul<sup>®</sup> Brand(s) acoustical ceiling systems.

Seeking the perfect balance of functionality and sustainability, the project architects, Albert Kahn Associates (AKA) of Detroit, chose Celotex<sup>®</sup> & Capaul<sup>®</sup> Brand(s) ceiling systems from BPB, a leading supplier of acoustical ceilings and walls. For the Crittenton project, the AKA architects selected High Humidity Fine Fissured, Cashmere<sup>®</sup> and VinylShield<sup>™</sup> A panels and BPB's Classic Stab Suspension System.

The overall Crittenton Hospital project includes a three-story, 45,000 sq. ft. extension on the north side, including a magnificent two-story atrium lobby. An additional 25,000 sq. ft. expansion on the south end doubled the size of the surgery, radiology and emergency departments.

Hospitals, which typically operate approximately 75 percent of their lighting 100 percent of the time, can gain significant savings on their energy bills using day-lighting in combination with high light reflectance ceiling panels such as the BPB's Cashmere<sup>®</sup> and Fine Fissured Acoustical Ceiling Products. But high light reflectance and optimized energy performance are just two of the many sustainability, or "green", attributes.

BPB's Celotex<sup>®</sup> Brand Acoustical Ceilings can help earn several rating points in LEED (Leadership in Energy and Environmental Design) projects



*A distinctive glass front, which makes maximum use of day-lighting strategies, accentuates the new Crittenton Hospital.*



*The Celotex<sup>®</sup> Brand Fine Fissured acoustical ceiling panels, which have a light reflectance of 0.83, help bring daylight further into finished interior areas and allow for the reduction of artificial lighting densities during daylight hours.*



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## CRITTENTON HOSPITAL MEDICAL CENTER *continued*

registered with the U.S. Green Building Council. Celotex<sup>®</sup> Brand Cashmere<sup>®</sup> panels are manufactured with a total recycled material content of 82-88 percent by weight. The recycled content is 2-6 percent by weight post-consumer and 80-82 percent by weight post-industrial. Further potential LEED credits may be achieved in waste management; rapidly renewable materials; and low-emitting materials, paints and coatings.

Celotex<sup>®</sup> Brand Cashmere<sup>®</sup> acoustical ceiling panels were used in the waiting rooms and administration building. Fine Fissured panels were installed in the corridors, storage rooms and bathrooms throughout the hospital. Capaul<sup>®</sup> Brand VinylShield<sup>™</sup> A panels were used in the operating rooms and the surgical department, labs and at the cart wash area because VinylShield<sup>™</sup> A has a light reflectance of 0.88 to accentuate the artificial lighting systems, where lighting is crucial for the safety and performance of the professionals who work in these areas.

Barton Malow Interiors, a division of Barton Malow Construction, installed approximately 85,000 sq. ft. of Celotex<sup>®</sup> & Capaul<sup>®</sup> Brand(s) ceilings in the project, according to Project Supervisor Todd Ovesen.

Ovesen explained that his installers believe the Celotex<sup>®</sup> & Capaul<sup>®</sup> Brand(s) wall molding is stronger and straighter than competing

brands. The molding is a heavier gauge metal, which makes it more durable.

Celotex<sup>®</sup> Brand Cashmere<sup>®</sup> Acoustical Panels are lightly textured, have a highly decorative edge detail, and come in a range of sizes. In addition to the standard panels, the Cashmere<sup>®</sup> line has custom options such as the Cashmere<sup>®</sup> Invisigrille, which integrates speaker panels as well as panels containing fixture openings. The Capaul<sup>®</sup> Brand VinylShield<sup>™</sup> A ceiling panel is a popular product for healthcare applications because its non-porous exterior surface makes it easy to keep clean in areas where cleanliness is mandatory. It is relatively inexpensive to install and weighs only 1 lb./sq.ft. Its Noise Reduction Coefficient (NRC) is 0.15, Ceiling

Attenuation Class (CAC) is 40 and has a Light Reflectancy of 0.88, giving it an overall high durability, and the appropriate NRC & CAC for the room function. The VinylShield<sup>™</sup> A was installed using a standard 15/16" ceiling suspension system.

The distributor on the project was Oakland Building Materials of Auburn Hills, MI. According to Sales Manager Paul Cangemi, more installers are asking for the Celotex<sup>®</sup> & Capaul<sup>®</sup> Brand line of products.

"We're selling more and more of it every day, because you can't beat the competitive value or the great appearance," Cangemi said.



*The Celotex<sup>®</sup> Brand Fine Fissured panels have a 100% non-directional fissure pattern and a choice of three popular edge details. Depending on the panel selected, as an option, a BioShield<sup>™</sup> treatment can be applied to the panel for additional mold and mildew resistance.*

For more information and samples, contact:

### USA

**BPB America Inc.**  
5301 West Cypress St., Suite 300  
Tampa, FL 33607  
Toll-Free: +1-866-427-2872  
Fax: 1-800-829-1422  
Email: [crc@bpb-na.com](mailto:crc@bpb-na.com)  
Web: [www.bpb-na.com](http://www.bpb-na.com)

### Canada

**BPB Canada Inc.**  
Architectural Products  
Sales Division  
6715 Ogdendale Road S.E.  
Calgary, Alberta T2C 2A4  
Toll-Free: +1-866-427-2872  
Fax: 1-800-829-1422  
Email: [crc@bpb-na.com](mailto:crc@bpb-na.com)  
Web: [www.bpb-na.com](http://www.bpb-na.com)



Product Specifications						
	Item Number	Nominal Size (Inches)	Edge Detail	NRC	CAC	Light Reflectancy
Cashmere <sup>®</sup>	CM-454	24 x 24 x 3/4	Reveal 1 5/8" Grid	.60	35	.82
Fine Fissured	HHF-154	24 x 24 x 5/8	Reveal	.60	35	.83
VinylShield <sup>™</sup> A	1102-CRF-1	24 x 24 x 3/8	Trim	.15	40	.88