

## CASE STUDY

**Capaul®** BRAND

HIGH PERFORMANCE CEILING & WALL SYSTEMS

ACOUSTICAL CEILINGS FROM BPB

*Symphony® f*



*BPB's Capaul® Brand Symphony® f ceiling panels serve as an elegant background for the unique hand painted curved mural on the library's inside front wall. The mural depicts events in local history.*

### CLINTON-MACOMB PUBLIC LIBRARY

**Project:** Clinton-Macomb Public Library renovation  
**Location:** Clinton-Macomb Public Library  
Clinton Township, MI  
**Application:** Acoustical ceilings  
**Architect:** TMP Associates Inc.  
Bloomfield Hills, MI

You can always identify the first-time visitors at the Clinton-Macomb Public Library in suburban Detroit. They're always looking up toward the ceiling. One reason is the colorful hand painted arched mural above the front entrance, illustrating scenes from local history.

Another reason to look skyward is the attractive milled wood columns, products of the local timber industry, and the elegant Capaul® Brand Symphony® f ceilings from BPB, a leading manufacturer of acoustical ceilings & walls.

Visitors also look upwards to admire a giant global representation of Planet Earth, which is suspended from the ceiling on the second floor and visible from the grand central staircase. In the children's library a myriad of colorful mobiles are also suspended from the ceiling.

With so many attractive features that draw so much attention to the ceilings, the library trustees, contractor and architect placed significant emphasis on the brand and style of ceiling panels to showcase the artwork. They chose 60,000 sq. ft. of Capaul® Brand Symphony® f along with BPB's Celotex® Brand Elite Narrow Stab Suspension System for the project, which is the largest library in Macomb County and the seventh largest in the state of Michigan.

"It's easy for us to recommend BPB products," said Mike Olejarczyk with Huron Acoustic Tile. Olejarczyk noted that the prices are competitive, the sales representative is a pleasure to work with, and they go the extra mile in terms of customer service.

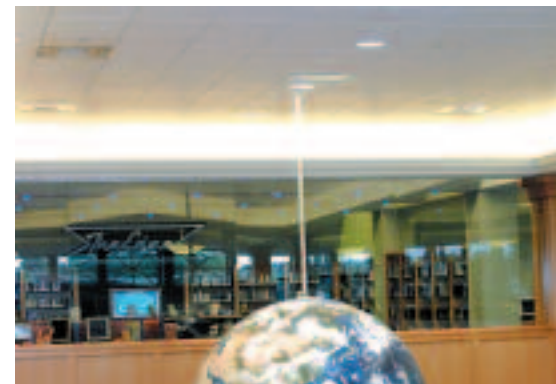
"She is very professional and knowledgeable, and works well with us," said Olejarczyk about BPB's sales representative Linda Vendt.

The Symphony® f panels offer superior noise reduction and a high light reflectance, both of which are important considerations for a library, or any similar setting where patrons want quiet, well-lit areas in which to read. The lighting is further enhanced with a row of clerestory windows and wood-frame drops highlighted with cove lighting.

Additional benefits of Symphony® f panels include a luxurious and smooth texture, exceptional speech privacy and enhanced productivity in open plan environments like a library. The dense fiberglass substrate with scrubbable, Overtone® finish adds an appealing monolithic appearance.



*The area's rich timber heritage plays a major part in the library's décor, which makes use of several environmentally friendly building materials. The use of Capaul® Brand Symphony® f acoustical ceiling panels was also prudent because of its high percentage of recycled content, light reflectance and other energy saving features.*



*Visitors admiring the giant size earth globe that stands in the building's central staircase can be equally impressed with the acoustical benefits and superior light reflectance offered by the Capaul® Brand Symphony® f ceiling panels.*



©™ Trademarks are the property of BPB plc or its affiliates and related companies.  
© 2005 BPB America Inc., Form LCD-2226/3M/0605



*continued*

# CASE STUDY

## CLINTON-MACOMB PUBLIC LIBRARY *continued*

The Elite Narrow Stab Suspension System features a slim 9/16" (15mm) face width to enhance design flexibility and to complement contemporary designs. Cross tees incorporate a staked-on end tab to ensure quick installation with optimal tightness.

Architect Kent D. Johnson with TMP Architecture Inc. of Bloomfield Hill noted that the ceiling system was a perfect match for the library.

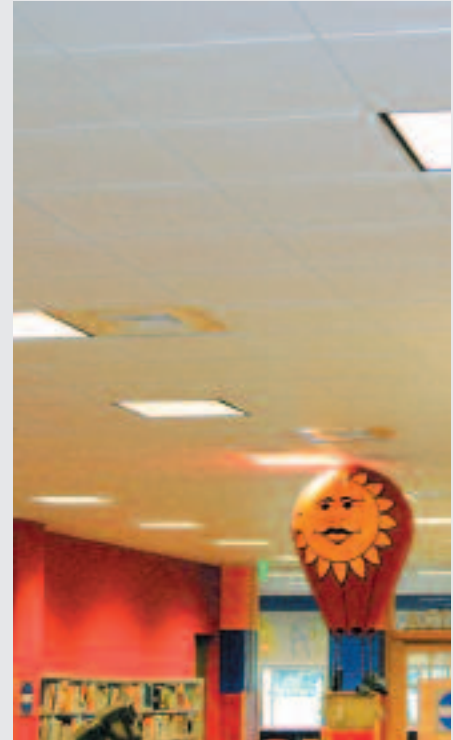
"We were looking for highly effective material acoustically," Johnson said.

TMP Architecture was hired for the project in 1999 to design a building that would create a memorable image, look stately, but one that was not overwhelming, according to Johnson. The building's exterior features a sloped roof giving it an unmistakably modern suburban look. The popular series of Carnegie libraries, built during the late 1800s and early 1900s,

influenced several portions of this project, both inside and outside.

Frank Rewold and Sons Inc. the general contractor, built the 84,000 sq. ft. library with steel framing, exterior brick, block and cast stone. Some of the unique structural features include a standing seam metal roof, terrazzo floors and fresco plaster.

The library serves a population of about 150,000 people. The state-of-the-art institution has an automated sorting system for returns as well as 24-hour checkout. Several meeting rooms are available, including one with a stage. Flat screen TVs are visible from comfortable seating areas warmed by cozy glass-enclosed gas fireplaces. Such amenities are achievable with the Symphony® f ceiling panels, which have a NRC of .95, giving noise very little chance of moving between rooms.



*The many hanging mobile's and other unique props add an aura of adventure and fun to the library's children's area. The exceptional noise reduction feature of Symphony® f made it the natural choice for use here.*

### Capaul® Brand Symphony® f Fiberglass Ceiling Features:

- Reinforced mat-faced fiberglass panel.
- Exceptional durability/scrubbability.
- Luxurious, smooth-textured surface plus superior noise reduction to maximize interzone attenuation.
- Perfect for exceptional speech privacy and enhanced productivity in open plan environments.
- Outstanding acoustical and thermal value, high light reflectance and humidity resistance.
- Mix with Symphony®g, Symphony® m and TufCore™ (White Overtone® Finish) products to achieve "checkerboarding".\*\*

### 9/16" Elite Narrow Stab Systems Features:

- Narrow style 9/16" (15mm) face complements modern designs.
- Stepped-end detail provides a seamless appearance.
- Cross tees utilize stab-in design to maximize strength and flexibility.
- Intermediate and heavy-duty load bearing capabilities.
- Meets building code requirements for seismic applications.
- Grid features hot-dipped galvanized steel web construction for corrosion resistance.

### Ceiling Panel Product Specifications

Capaul® Brand	Item Number	Nominal Size (Inches)	Edge Detail	R-value	NRC Range	AC	CAC	Light Reflectance
Symphony® f	1342F-OVT-1	24x24x1	Narrow Reveal	4.3	.95	200	25	.89

### Elite Narrow Stab Ceiling Suspension System

Celotex® Brand	Item Number	Length	Height	Face	Metal Thickness	ASTM	Allowable Load/Lbs.Ft (kg/m) Hanger Spacing		
Main Runner	E12-12-18	12' (3660mm)	1-1/2" (38mm)	9/16" (15mm)	.018" (.46mm)	ASTM C 635	4' (1220mm): Intermediate Duty 12.0 (17.9)	5' (1525mm): 6.4 (9.5)	6' (1830mm): 3.8 (5.7)
Cross Tee	E2-12-12	2' (610mm)	1-1/2" (38mm)	9/16" (15mm)	.012" (.46mm)	ASTM C 635	1' (305mm): -	2' (610mm): *24.5 (36.5)	4' (1220mm): -
Cross Tee	E4-12-12	4' (1220mm)	1-1/2" (38mm)	9/16" (15mm)	.012" (.30mm)	ASTM C 635	1' (305mm): -	2' (610mm): -	4' (1220mm): 9.0 (13.4)

\*Weight limited by a safety factor of 2.

\*\*Checkerboarding: Using similar aesthetic products in the same room, same offices, same building or same complex to achieve a consistent look while meeting various acoustical performance needs and budgets.

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)

