

# CertainTeed GlasRoc<sup>®</sup> BRAND High Performance Exterior Sheathing

## CASE STUDY: THE AVENUE AT WESTCHASE



CertainTeed's GlasRoc<sup>®</sup> High Performance Sheathing provides enhanced dimensional stability, yet it is flexible enough to bend to curved surfaces, like the towers at The Avenue at Westchase.



Sikon Construction scaffolding sits ready for EIFS installers who, according to Project Superintendent Jason Rice, "prefer CertainTeed's GlasRoc<sup>®</sup> Sheathing. EIFS foam, applied with specially formulated adhesive, bonds to CertainTeed's GlasRoc<sup>®</sup> Sheathing better than yellow board, and it's harder to pull off. With CertainTeed's GlasRoc<sup>®</sup> Sheathing, the bond is stronger."



CertainTeed's GlasRoc<sup>®</sup> High Performance Sheathing. Is easy to work with, and no special tools are necessary.

<b>Project:</b>	Mixed-use Commercial Development
<b>Location:</b>	Westchase Village, Tampa, FL
<b>Application:</b>	Exterior Insulation and Finish System (EIFS)
<b>Square Footage:</b>	97,000 sq.ft.
<b>Architect:</b>	Nathan Griffes, Cuhaci & Peterson Architects
<b>General Contractor:</b>	Sikon Construction Boca Raton, FL
<b>Wall Contractor:</b>	Clearwater Interiors, Clearwater, FL

The subdivision of Westchase, north of Tampa, Florida, is made up of twenty-eight villages. One of those villages, a particularly distinctive one, is named West Park Village. It is an upscale community made up of 3,000 single- and multi-family residences. Although relatively new, it is reminiscent of a picture-perfect Norman Rockwell painting. There is even a West Park Village Town Center with a park and a bandstand. A coffee shop sits nearby amongst a limited amount of retail space.

For West Park Villagers, 'limited retail space' became a thing of the past in mid-2005 when Sikon Construction broke ground on The Avenue at Westchase, an 97,000 sq. ft. mixed-use commercial space owned and operated by Real Estate Property Specialists, Inc. It is within walking distance of the entire village, and offers the community more goods and services, than what is currently available.

As Real Estate Property Specialists President Alan Charron, MAI says, "Residents will have another place to walk or bike to for things like ice cream cones, gifts and neighborly conversation."

Aesthetics and overall appeal of The Avenue was very important to Charron. He put seven architects through a rigorous qualification process in search of a perfect design to complement the environment. The Avenue is made up of several buildings, each offering a generous amount of retail space per floor.

When it came time for architect Nathan Griffes, Cuhaci & Peterson Architects, to specify an exterior sheathing for the project, he chose CertainTeed's (formerly BPB) GlasRoc<sup>®</sup> Sheathing for several reasons.

CertainTeed's GlasRoc<sup>®</sup> High Performance Sheathing has many benefits beyond competitive products. It was created with a patented technology called Enhanced Glass Reinforced Gypsum Technology (EGRG) and is considered "the next generation" of high-performance, weather-resistant, gypsum-based sheathing. This unique EGRG technology uses reinforcing glass mats, fully-embedded into a water-resistant gypsum core positioned beneath a paperless polymer-modified gypsum surface. A protective acrylic coating is applied on the exterior face.

According to Sikon Construction Project Superintendent Jason Rice, Clearwater Interiors, "Installers were happy when they found out they'd be installing CertainTeed's GlasRoc<sup>®</sup> Sheathing at The Avenue. It is the sheathing product they prefer," Rice reports.

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Rice went on to say that “Yellow board doesn’t have an extra coating like CertainTeed’s GlasRoc® High Performance Sheathing. Touching yellow board can be painful, especially when the temperature is hot and skin pores open. The shards get into the pores and must be washed off. The acrylic coating on the outside of CertainTeed’s GlasRoc® Sheathing minimizes skin irritation.”

According to Rice, EIFS installers prefer CertainTeed’s GlasRoc® Sheathing, too. That’s

because their foam, which is applied with specially formulated adhesives, bonds to CertainTeed’s GlasRoc® Sheathing better than yellow board. “It is harder to pull the foam off CertainTeed’s GlasRoc® Sheathing than it is to pull it from yellow board. With CertainTeed’s GlasRoc® Sheathing, the bond is stronger.”

“Contractors tell us it is easier to work with because it snaps apart easily after it’s been scored.” says CertainTeed Sales Rep Doug Looney. No special tools are necessary. Rather, a standard utility knife is used to cut it. Score

a line down it, and it snaps into a clean break. “Some products need special tools.”

CertainTeed’s GlasRoc® Sheathing provides enhanced dimensional stability. It is strong, yet flexible enough to bend to curved surfaces, and it has excellent fire resistance properties and numerous fire-rated assemblies. CertainTeed’s GlasRoc® High Performance Sheathing comes with a twelve-month limited warranty against exterior exposure, as well as a five-year limited warranty, assuring The Avenue at Westchase long-term product performance.

**Typical Physical Properties High-Performance Sheathing Comparison**

Properties	Products - 1/2" (12.7 mm)			Products - Fire-Rated 5/8" (15.9 mm)			Test Method/Reference
	GlasRoc® Sheathing	Dens-Glass Gold® Sheathing	Fiberock® Aqua-Tough™ Sheathing	GlasRoc® Sheathing Type X	Dens-Glass Gold® Sheathing	Fiberock® Aqua-Tough™ Sheathing	
<b>Physical Characteristics:</b>							
Nominal Width	48" (1219 mm)	48" (1219 mm)	48" (1219 mm)	48" (1219 mm)	48" (1219 mm)	48" (1219 mm)	-
Weight - Lbs/Square Foot (Kg/m²)	1.9 (9.3)	1.9 (9.3)	2.2 (10.7)	2.4 (11.7)	2.5 (12.2)	3.0 (14.6)	-
Standard Length	8' *	8', 9', 10'	8', 9', 10', 11', 12'	8' *	8', 9', 10'	8', 9', 10', 11', 12'	-
Face Surface	Acrylic/Gypsum	Glass Mat	Gypsum Fiber	Acrylic/Gypsum	Glass Mat	Gypsum Fiber	-
<b>Pliability:</b>							
Bending Radius - Dry, Lengthwise, Feet (mm)	6 (1800)	6 (1800)	30 (9000)	8 (2400)	8 (2400)	30 (9000)	-
<b>Strength:</b>							
Racking Strength - Lbs/Lin.Ft. - (kN/m) Design Value	108 (1.58)	99 (1.44)	150 (2.19)	120 (1.75)	-	175 (2.55)	ASTM E 72 NER Reports
Parallel Flexural Strength - Lbs. (N)	100 (445)	80 (356)	124 (552)	135 (600)	100 (445)	189 (841)	ASTM C 473
<b>Water Resistance:</b>							
Humidified Deflection (Sag) - Inches (mm)	1/16 (1.6)	2/8 (6)	-	1/64 (0.4)	1/8 (3)	-	ASTM C 473
<b>Water Vapor Transmission:</b>							
Permeance - perms (ng/Pa•s•m²)	26 (1500)	23 (1320)	35 (2030)	21 (1200)	17 (970)	28 (1620)	ASTM E 96
<b>Thermal Resistance:</b>							
"R" Value - sq.ft.•h•°F/Btu (K•m²/W)	0.51 (0.090)	0.56 (0.099)	0.5 (0.088)	0.51 (0.090)	0.67 (0.118)	0.6 (0.106)	ASTM C 518
<b>Fire Performance:</b>							
Flame Spread/Smoke Developed	0/0	10/0	5/0	0/0	10/0	5/0	ASTM E 84 (CAN/ULC-5102)
Combustibility:	Noncombustible	Noncombustible	-	Noncombustible	Noncombustible	-	ASTM E 136
<b>Dimensional Stability:</b>							
Thermal Coefficient of Linear Expansion - in./in./°F (mm/mm/°C)	6.4 X 10 <sup>-9</sup> (11.5 X 10 <sup>-9</sup> )	8.5 X 10 <sup>-6</sup> (15.3 X 10 <sup>-6</sup> )	-	6.4 X 10 <sup>-9</sup> (11.5 X 10 <sup>-9</sup> )	8.5 X 10 <sup>-6</sup> (15.3 X 10 <sup>-6</sup> )	-	ASTM E 228
<b>Mold Resistance:</b>							
Mold Resistance Rating**	10**	10**	10**	10**	10**	10**	ASTM D 3273/D 3274

\* Other lengths available. Ask your CertainTeed sales representative.  
 \*\* No mold growth detected. Note 10 is highest rating possible.

GlasRoc® Sheathing is covered by U. S. Patent No. 6,524,679, and other patents and patents pending.

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