

DensElement™ Barrier System

with AquaKOR™ Technology

THE FUTURE OF THE WALL IS HERE TODAY

Introducing patent-pending DensElement™ Barrier System – the first and only premium water-resistive and air barrier (WRB-AB) system from Georgia-Pacific Gypsum. Leveraging industry-leading products from PROSOCO, we have revolutionized the way exterior walls are built.

Scientifically enhanced, and tested for performance, the DensElement™ Barrier System combines the trusted performance of the highly recognizable GOLD Dens® brand with new AquaKOR™ Technology to transform the building envelope.



REVOLUTIONIZING THE WRB-AB SYSTEM

Keep walls dry. It sounds simple, but time and time again water infiltration is the main culprit for failure within a building envelope. History has proven that typical construction will allow some moisture to penetrate either the structural wall or rough openings. It's not a question of if moisture will get into a building; it's a question of when.

So how can you ensure that when moisture gets into your building that it can get out too? The DensElement™ Barrier System is the answer. Until now, industry-accepted WRB-AB products have not delivered fully:

- Fabric wraps may rip and tear in even mild breezes, let alone strong storms. Even where they stay on, staple holes may provide air and water access to the structural walls.
- Conventional fluid-applied WRB-AB membrane systems can be time and labor intensive; requiring installers to coat the entire sheathing surface with potential coating thickness variations.
- Low permeable peel-and-stick membranes can trap and hold water if moisture penetrates to the sheathing through the seams in the membrane, accelerating the very problem of moisture-related decay they were designed to prevent.



A SYSTEM SOLUTION



The DensElement™ Barrier System is comprised of these approved system components:

- DensElement™ Sheathing with AquaKOR™ Technology
- PROSOCO R-Guard® FastFlash® liquid flashing (applied on or over joints, fasteners, openings, penetrations and transitions)



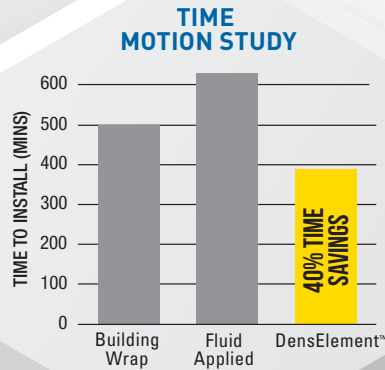
WHAT IS AQUAKOR™ TECHNOLOGY?

It's the science behind the system. Unique to the patent-pending DensElement™ Barrier System, AquaKOR™ Technology integrates a water-resistive and air barrier directly within the sheathing's gypsum core. Its resulting vapor permeability allows for "moisture forgiveness" – the ability to resist bulk water infiltration, while simultaneously enhancing an exterior wall's capacity to dry if, and when, moisture makes its way through other penetrations, like windows or doors.

SCIENTIFICALLY ENHANCED

Having undergone rigorous performance testing, the DensElement™ Barrier System unites science with technology. The layered construction of the DensElement™ Sheathing chemically bonds a water-resistive and air barrier (WRB-AB) directly within its gypsum core and is finished with GOLD fiberglass mats for moisture and mold resistance. It completely eliminates the need for an additional WRB-AB to be installed over the face of the sheathing during installation – no more building wrap, no more fluid-applied membranes and no peel-and-stick membranes required.

Every seam or penetration causes potential for moisture intrusion. So, for maximum protection, the DensElement™ Barrier System is complete only with tested and approved PROSOCO® R-Guard® FastFlash® liquid flashing, which fills and seals joints, fasteners, openings, penetrations and transitions.



INSTALLATION TIME SAVINGS

Construction professionals reap the benefits of the DensElement™ Barrier System. Not only does it comply with the WRB-AB requirements of current model building codes and energy codes, but when tested by the Home Innovation Research Labs™ in a Time-Motion Study and compared to traditional WRB-AB methods, the DensElement™ Barrier System significantly reduced the total man-hours required for installation – about 40% less time* than a comparable full fluid-applied WRB-AB system on gypsum sheathing!

To view the independent study results, visit DensElementDocuments.com.

* The results presented reflect the findings on specific construction assemblies under test conditions. Actual results may vary depending on the system, the building, the installation methods and other factors.

LIMITED WARRANTY FOR SYSTEM SOLUTION

In addition to the same trusted limited warranty for up to 12 months of exposure to normal weather conditions that other Dens® brand products carry, the DensElement™ Barrier System also carries a 5-year limited warranty for performance as a WRB-AB with R-Guard® FastFlash® liquid flashing as part of the original building envelope of a commercial or residential property.

For full warranty details visit DensElementDocuments.com.

BUILDING & ENERGY CODE COMPLIANCE

The DensElement™ Barrier System is an alternative to the water-resistant barrier (WRB) requirements prescribed in the current International Residential Code (IRC), International Building Code (IBC) and the air-resistant barrier (ARB) requirements prescribed in the current International Energy Conservation Code (IECC).

Carrying the most widely accepted and trusted evaluation mark, the DensElement™ Barrier System holds an International Code Council Evaluation Service (ICC-ES®) ESR for IRC, IBC Chapter 1, Section 104 *Alternative Materials Compliance*.



Georgia-Pacific Gypsum LLC
133 Peachtree Street, N.E. | Atlanta, Georgia 30303

DensElement.com

GP Tech Hotline: 800-225-6119

PROSOCO Tech Hotline: 800-358-7809

CAUTION: For fire, safety and use information go to www.buildgp.com/safetyinfo.

WARRANTY: For current limited warranty for this product, visit DensElementDocuments.com.

©2016 Georgia-Pacific Gypsum LLC. All rights reserved. DENS, DENSELEMENT, DENSEGLASS, AQUAKOR, the color GOLD, GEORGIA-PACIFIC, GP and the DENSELEMENT logos are trademarks owned by or licensed to Georgia-Pacific Gypsum LLC. ICC-ES is a registered trademark of the International Code Council. R-GUARD, FASTFLASH, PROSOCO and the PROSOCO logo are registered trademarks of PROSOCO, Inc. Used with permission. Home Innovation Research Labs is a trademark of National Association of Home Builders of the United States. Rev. 1/16 #622856