

# DensElement® Barrier System

## with AquaKor™ Technology

### THE FUTURE OF THE WALL IS HERE TODAY

Introducing patented DensElement® Barrier System – the first and only premium water-resistive and air barrier (WRB-AB) system from Georgia-Pacific Gypsum.

Scientifically enhanced, and tested for performance, the DensElement® Barrier System combines the trusted performance of the highly recognizable GOLD Dens® brand with 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
- DensDefy™ Liquid Flashing (applied on or over joints, fasteners, openings, penetrations and transitions)



We offer additional accessories for certain details. Our DensDefy™ Transition Membrane is used where other advanced materials are needed to ensure building envelope continuity, such as transitions to distinct materials including concrete. DensDefy™ Transition Membrane is available in 6", 9", 12" widths for wall assemblies above grade.



## WHAT IS AQUAKOR™ TECHNOLOGY?

DensElement® Barrier System, with AquaKor™ Technology, features a proprietary formulation that integrates the gypsum core and fiberglass mat to form a hydrophobic, monolithic surface that blocks bulk water, but allows vapor to pass through.

## SCIENTIFICALLY ENHANCED

Having undergone rigorous performance testing, the DensElement® Barrier System with AquaKor™ Technology unites science with technology, eliminating the need for a separate WRB-AB. This reduces the potential for installer error associated with field-applied WRB-AB systems. The end result is a faster, easier installation process that provides the protection of a continuous WRB-AB.

Every seam or penetration causes potential for moisture intrusion. So, for maximum protection, the DensElement® Barrier System is complete only with tested and approved DensDefy™ LiquidFlashing, 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 study results, visit [DensElement.com](http://DensElement.com).

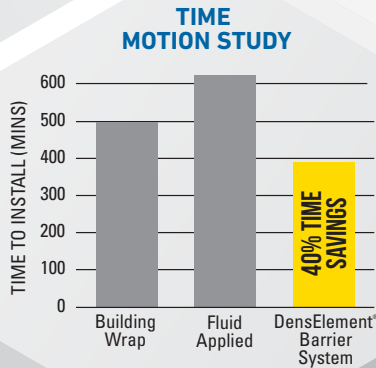
\* The results presented reflect the findings on specific construction assemblies under test conditions. Actual results may vary depending on the system, the building, the installation methods and other factors.

## BUILDING & ENERGY CODE COMPLIANCE

The DensElement® Barrier System meets the 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.

DensElement® Barrier System and DensDefy™ Accessories are backed with a limited warranty. Visit [denselement.com](http://denselement.com) for more details.



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**CAUTION:** For fire, safety and use information go to [BuildGP.com/Safetyinfo](http://BuildGP.com/Safetyinfo).

**WARRANTY:** For current limited warranty for this product, visit [denselement.com/resources](http://denselement.com/resources)

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