



INVINSA™ ROOF BOARD'S HIGH-PERFORMANCE, PROTECTION, EASE-OF-USE: INTEGRAL COMPONENTS OF THE ROOF SYSTEM

"Johns Manville has the best product on the market... I think it's going to advance the future of roofing by leaps and bounds." A bold statement coming from Barry Brooks, president of Circle B Roofing in Fayetteville, Georgia, but one that has been earned by Johns Manville for their new patent pending, high-density polyisocyanurate (polyiso) roof board - Invinsa.

Johns Manville's Invinsa roof board has made a believer out of Brooks with Circle B Roofing, a \$2.5 million dollar company formed in 1997. Brooks was one of the first customers to use the resilient, lightweight roof board on a high-profile roof replacement project for the world headquarters of Chick-Fil-A®, in College Park, Georgia.

"We wish we had this product a long time ago," declared Brooks, after installing the Invinsa product on the 20,000 square foot building. Compliments like that don't come easy in an industry with a propensity for straying from the word "new". Though a new Johns Manville product, Invinsa has successfully earned the trust and respect of a 25-year roofing veteran who specializes in built-up and modified bitumen roofing systems.

Like most building maintenance engineers, Chick-Fil-A engineer Grant Boyd expressed legitimate concerns about the waterproofing, longevity, and quality of the roofing system. He wanted a system that was worry-free. To protect the Chick-Fil-A investment, he wanted the best technology to provide long-term durability while also maintaining a long life.

Given these criteria, Johns Manville provided Brooks with the perfect solution: Invinsa.

He was aware of a new polyiso product being engineered that would optimize the properties of impact resistance and compressive strength. With careful consideration of everything in the market, Brooks viewed Invinsa as the product of choice because of Johns Manville's leadership in the marketplace, and expertise in polyiso manufacturing.

The decision was easy: Use the best product on the market.

The benefit of the decision was two-fold: Not only would this product meet the needs of Chick-Fil-A, but it would also allow for considerable savings to Circle B Roofing.

Because Chick-Fil-A executives are housed in the College Park building, it was requested that Circle B load the materials on a Saturday. The building is six-stories with little access to the roof. Additionally, the project had to be completed within two weeks. Understanding the advantages of the lightweight Invinsa and the unique constraints of the job, it became clear this would be the right product to meet the challenges of the project.

Regarding time constraints, Brooks stated, "The day that we loaded out this roof, Chick-Fil-A and Circle B were concerned about time, because on a Saturday, crane time's more expensive and labor's more expensive. By using the JM cover board, we found that the loading of the particular job took 4 hours less than we had anticipated. We thought it would take 10 hours of time, but it only took 6 hours, because the product itself didn't fall apart... it was lighter and we just found it to be a good product."

The project also had many projections requiring a great deal of cutting. "With JM cover board, the cut is a lot more precise, and the board doesn't break... creating less waste and requiring less labor." Brooks stated that when putting down the base sheet, Invinsa was very clean and did not generate much dust thereby eliminating additional sweeping and blowing off.

It was important to Brooks that Chick-Fil-A obtain the best product available. "Chick-Fil-A is a national and world-known corporation. We felt that we had to put a good product on this roof, so in consideration of everything that's out there, Johns Manville, in our opinion, has the **best** product on the market; they're more advanced in technology, the support that we get from the company is phenomenal...".

Lightweight Invinsa offers labor and installation efficiencies. Its high-impact and flexural strength provide increased resistance to damage from various sources. The low water absorption characteristics offer peace of mind. The easy and efficient scoring, cutting and snapping permits fast and tight fabrication around roof penetrations. The board composition provides a low-dust environment and smooth surface for better adhesion. And lastly, the flexibility of Invinsa means reduced breakage during handling.

Products used during installation:

Invinsa and ENRGY 3™ polyisocyanurate insulation board were applied to a concrete deck using a bonding adhesive. The DynaGrip™ SD/SA base sheet was self adhered and the DynaWeld™ Cap was torched on top. DynaClad™ aluminum flashings were installed.