

FIVE RIVERS DISTRIBUTION

CASE STUDY



FIVE RIVERS DISTRIBUTION is a port storage facility that stores and distributes bulk material including chicken feed, road salt and fertilizer. In 2014, they added a 15,000 square foot Legacy building at their facility in Van Buren, Arkansas. Satisfied with the performance of two smaller “hoop” buildings already onsite, they specified a fabric structure for their new addition. After investigating the available options and consulting with other port managers, Five Rivers chose Legacy Building Solutions to design, manufacture and install the new storage buildings.

One of the deciding factors in choosing Legacy over other fabric structure manufacturers was the expertise and experience of the Legacy team. “I spoke to Paul Smith at Legacy, and he was a very nice, knowledgeable man,” said Marty Shell, president of Five Rivers Distribution. “He really sold his company well. We obviously had contracts, but the overall feel was kind of like the olden days, where you felt you could just take somebody at their word. Everything that Legacy said they were going to do, they did.”

BUILDING NAME

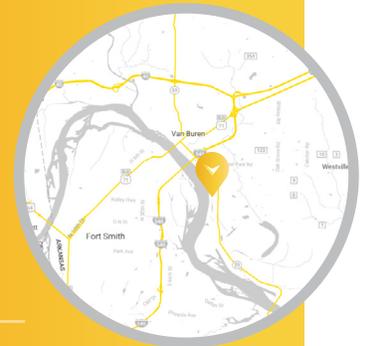
Five Rivers

OWNER

**Five Rivers
Distribution**

LOCATION

Van Buren, AR



SIZE

**Three buildings: 120 x 250'
+ 75 x 200' + 120 x 160'**

MARKET SECTOR

**Port Storage
& Distribution**

APPLICATION

**Corrosive
Storage**

SPECIAL FEATURES

**Multiple buildings on the same
site, CIP foundations & walls**

INSTALLATION

Legacy in-house crews



The benefits of the Legacy building were clear as soon as construction was completed. Like the other fabric structures on the site, the new building has withstood the challenges of harsh weather conditions and corrosive environments. And because the Five Rivers facility operates off the traditional power grid, the natural light permeating the fabric allows heavy equipment and personnel to operate safely inside without electric lights.

The rigid steel frame design also had benefits for the bulk storage application. “We like the sidewall columns going straight up instead of curving down like in our hoop buildings,” said Shell. “First off, it lets us put more product in there. And our front-end loaders can get much closer to the walls and drive straight down the sides. It gives us more working room and increases our efficiency.” Dump trucks and front end loaders access the building daily, and the steel frame and concrete walls are designed to withstand accidental collision.

The new building also includes 10 ARV-2000 ridge vents and 18-inch overhangs with mesh vents. This gravity ventilation system provides air circulation along the length of the building, as opposed to the previous structures which were ventilated only with endwall vents. Air circulation prevents moisture buildup, another feature that prevents corrosion, and helps keep stored material fresh – especially important when storing commodities and agricultural products.

After the first building was onsite and in use for a few months, Five Rivers Distribution needed another storage building. Once again, they turned to Legacy.

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“Legacy was so outstanding to work with that I didn’t even bother looking at pricing elsewhere,” said Shell. “We had a few months to see that the building was exceeding our expectations, so we went straight back to them.”

New buildings were erected in 2015 and 2017. Like the original Legacy building built onsite, the new buildings are fabric structures built on a rigid steel frame. All three buildings use cast-in-place concrete walls to increase the buildings’ storage capacity. The buildings use white polyethylene fabric on the roof and gables, with blue fabric along the sidewalls.

“Our business depends on offering the best competitive rate,” said Shell. With a total capacity of 65,000 tons, the buildings have doubled the bulk storage capacity at Five Rivers.