

PROJECT PROFILE



Evonik Industries (Evonik) required a new facility within an existing operational chemical plant behind the gates. The project presented many challenges including an accelerated schedule, weight and size concerns, determination of location within the plant as close to operations as possible, working in a blast zone, and transportation of the modules.

To meet Evonik's accelerated schedule, Brewer designed and fabricated the modules off-site to facilitate site preparation while simultaneously building the modules. During this time, a transportation study was also conducted to assess feasibility, confirm the route, and work through navigation logistics within the plant to the final location.

Site preparation was extensive and required clearance and approval from 15 different pipeline and utility companies prior to any digging. After receiving approval to dig, Brewer proceeded with an x-ray sonar test of the entire project site, soil analysis with 25' deep core cuttings, and 63 drill pier footings at 12' deep to support the structure.

Once the site was ready, the six individual modules, four 50' x 12' modules and two 60' x 12' modules, were transported with temporary framing to the plant where they were assembled and built-out on-site. The modules were offset around an existing pipe rack which is why two of the modules were 10' shorter than the others.

Evonik's new BRM building features a QA laboratory and supporting office space. The laboratory features seven fume hoods and chemical resistant flooring. Brewer worked with Evonik's lab managers and engineers to select fume hoods with advanced molecular filtration technology. These fume hoods are capable of adsorbing multiple chemical types simultaneously, essentially eliminating the need for application-specific filters. The project was completed on time and within budget.

EVONIK INDUSTRIES

Specialty Chemicals
Manufacturer

QA Laboratory and Office – Blast Resistant
Module (BRM)

Project Delivery Method: Design Build

New Construction

7,140 Square Feet

Deer Park, Texas

Cost: \$2.56 Million

PROJECT TEAM:

Design Team: Brewer Construction

Project Manager: Dennis Brewer

Estimator: Travis Brewer

Superintendent: Mike Cody

Safety Officer: Nathan Brewer



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