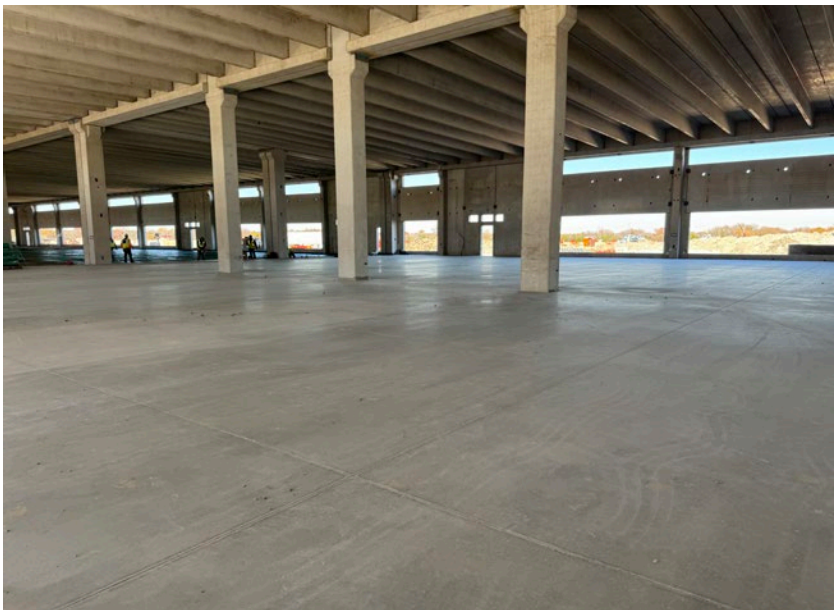
PROJECT PROFILE

COMPASS DATACENTER DFW

EUCLID CHEMICAL



PROJECT DATA

Location – Red Oak, TX

Application – Fiber Reinforced Concrete

Engineer – HED

Contractor – Brassfield and Gorrie

Concrete Producer – SRM

Total Area – 400,000 ft^2 (37,200 m^2)

PRODUCTS FEATURED

TUF-STRAND™ SF
Macro Synthetic Fiber

SCOPE OF PROJECT

- Replace original steel fiber design reinforcement on internal floor, pads and exterior pavement
- Sustainable approach through CO_2eq reductions proven with Euclid Chemical fiber EPD

PROJECT SUMMARY

Compass Datacenters is one of the world's fastest growing companies, designing and constructing data centers for some of the largest international hyperscalers and cloud providers on campuses across the globe. Compass Datacenters has a serious commitment to sustainability and requires that their equipment and buildings are designed with sustainable attributes by monitoring their greenhouse gas emissions. Their newest location in the Dallas-Forth Worth Metroplex was no exception. TUF-STRAND SF macrofiber was utilized for interior floor slabs and exterior equipment pads in the Red Oak facility to replace the original steel fiber design. Conversion to synthetic fiber provided considerable cost savings and measurable reductions of CO_2eq, a measurement of greenhouse gas emissions. Floor designs were confirmed using moment-based structural designs, supporting all loads and considerating soil conditions. This successful job has led to similar projects being constructed in other areas of the country with a synthetic macrofiber solution.