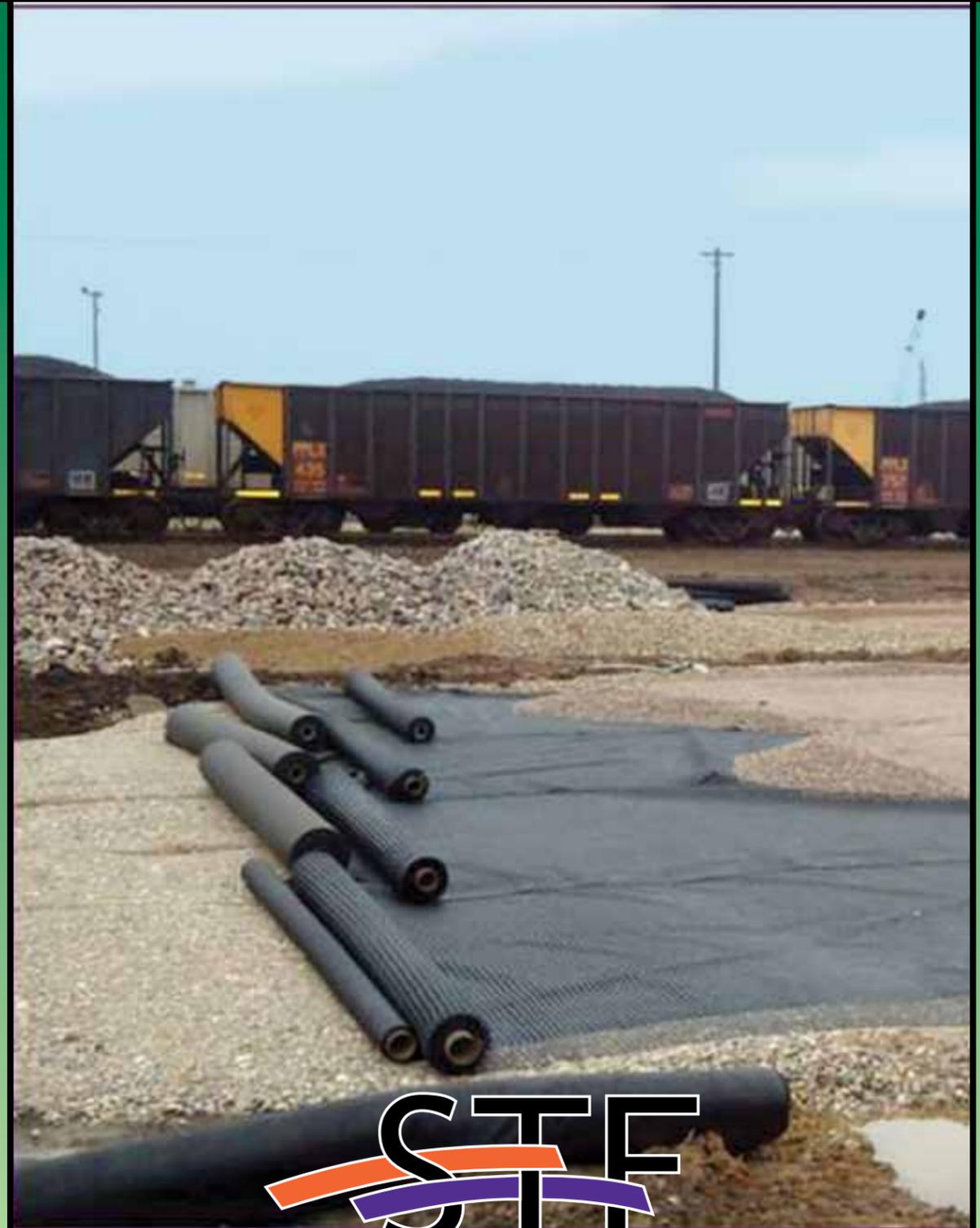


HIGH PERFORMANCE GEOGRIDS FOR THE ENERGY INDUSTRY



Synteen Technical Fabrics

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Energy production in the United States is currently at an all-time high. Thanks largely in part to recent activity in the the Marcellus Shale Formation in Pennsylvania and North Dakota's Bakken Oil Fields, so is construction of access roads and drill pads in these rural and largely undeveloped areas.

The use of Synteen geogrid reinforcement can not only substantially reduce overall project costs, but expedite the construction process as well, allowing energy companies to capitalize on their investments in a shorter period of time.



Typical unreinforced subgrade



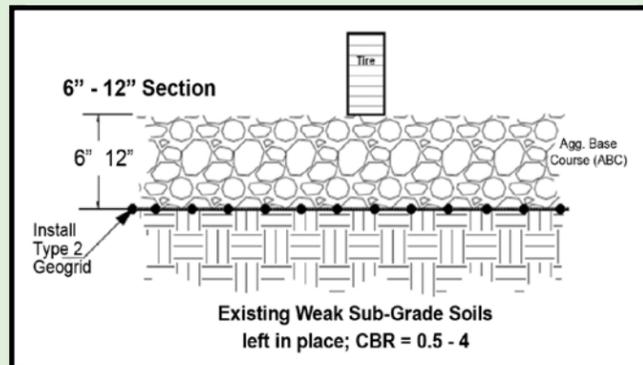
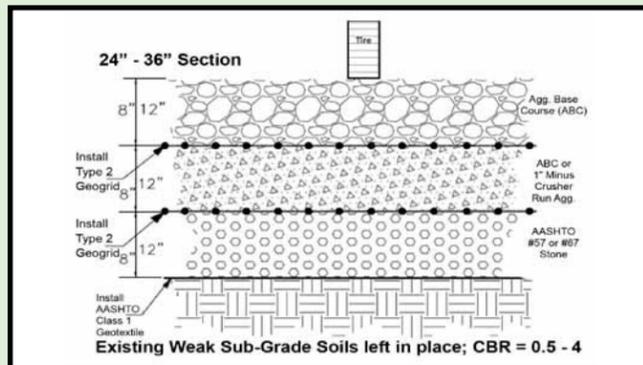
STF reinforced subgrade

THE SYNTEEN GEOGRID ADVANTAGE

Geogrids work by providing confinement (lateral stability) to unbound base courses, which improves the vertical stress distribution qualities of aggregate base course materials. This is typically known as the "snowshoe effect."

This translates into a direct contribution to your bottom line. Benefits of geogrids include:

- Equivalent performance with a reduced aggregate base course thickness
- Increased service life of pavements, thus reducing long-term maintenance costs
- Eliminates over-excavation and replacement of unsuitable subgrade soils
- Allows construction to continue during wet weather conditions



*** Synteen geogrids have been utilized to reduce drill pad and haul road ABC thickness between 24% and 66%, depending on soil conditions. ***

THE SYNTEEN ADVANTAGE

Synteen offers the widest range of geogrids in the industry today, with a complete offering of polyester and polypropylene products. The true Synteen advantage lies in our ability to manufacture custom products, including:

- widths (up to 17')
- lengths (site specific)
- opening sizes (gradation specific)

By utilizing custom roll dimensions, Synteen geogrids can substantially reduce or even eliminate material waste, providing a considerable advantage over our competition.

