

# Value engineering for housebuilders

**Tensar geogrid solutions have helped improve construction efficiency, mitigate risk and reduce delays on UK housing projects for more than three decades.**

The government is committed to building 300,000 new homes by the mid-2020s to meet the country's housing crisis. Tensar systems can help housebuilders meet these targets, by maximising land use, minimising construction costs and delivering new homes as quickly as possible, while maintaining profitability.



## HOUSING

### **Tensar geogrid solutions can deliver up to:**

- 20%** Cost savings in road construction
- 75%** Cost savings in reinforced soil wall construction
- 50%** Reduction in aggregate thickness for temporary roads and platforms
- 20%** Reduction in permanent road pavement thickness

**“Tensar’s alternative design involved significantly less excavation, spoil handling and importing of aggregates, cutting pavement costs by 75%.”**

Lincolnshire County Council





## Helping Taylor Wimpey save time and money in Castleford

TensarTech EcoCrib allowed mining waste to be used in a reinforced soil wall to maximise space for the Poppy Grange housing development in Castleford, Yorkshire. The 220m long and 6.6m high wall was built over a very wet winter, which made the moisture-sensitive fill very challenging.

- **Saving costs by using poor-quality site-won fill**
- **Speeding up construction in very wet weather**
- **Reducing environmental impact**

## Delivering economical access to King's Lynn homes

Tensar Spectra Pavement Optimisation delivered a robust and economical solution for roads, driveways and parking built over weak ground on the Orchard Place residential scheme in King's Lynn. TriAx geogrid mitigated the risk of differential settlement in the roads, including one being adopted by Norfolk County Council, avoiding having to import fill, saving time and money.

- **Enabling economical road construction over weak ground**
- **Mitigating differential settlement**
- **Avoiding the need to import fill**
- **Adopted by local authorities**

## Linking housing schemes quickly and safely

TensarTech TW3 wall systems were used to support a bridge over the A24 near Horsham that links developments by Berkeley Homes and Countryside Properties. The modular system reduced the number of crane lifts and minimised lane closures when building the bridge's load bearing abutments and wing walls.

- **Robust and cost-effective solution**
- **Fast construction, minimising the impact on traffic on a busy trunk road**
- **Modular system reduced construction risk**

# Tensar®

### Tensar International Limited

Units 2-4 Cunningham Court  
Shadsworth Business Park  
Blackburn  
United Kingdom  
BB1 2QX

T. +44(0)1254 262431

[www.tensar.co.uk](http://www.tensar.co.uk)

“Tensar delivered a cost effective and robust solution for road construction and drainage installation.”

Taylor Wimpey

“It would have been very difficult to develop this site economically without the TensarTech TW1 wall system. The solution enabled Jones Homes to develop a very tricky site.”

Tully De'Ath