FRP Bridges

Network Rail's experiences

Brian Bell

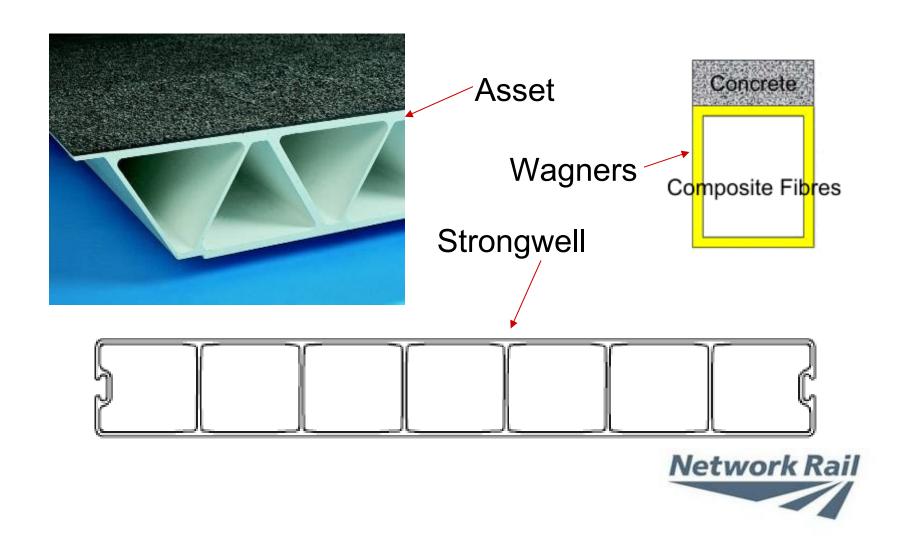


Why use FRP for new build?

- Components produced under factory conditions
 - Better consistency
- Light weight
 - No need to strengthen foundations
 - Smaller cranes for installation
- Easily fabricated off site
 - Weather less of a factor
- Maintenance free?



What's available for bridges?





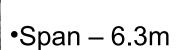
Bond's Mill Bridge





Mount Pleasant Bridge, M6, Lancashire

- •Spans 2 x 26m
- •Width -5.6m
- Beam/slab type
- •GFRP deck
- Steel plate girders



- •Width 6m
- Slab type
- •GFRP deck
- •GFRP edge beams





Completed new build projects



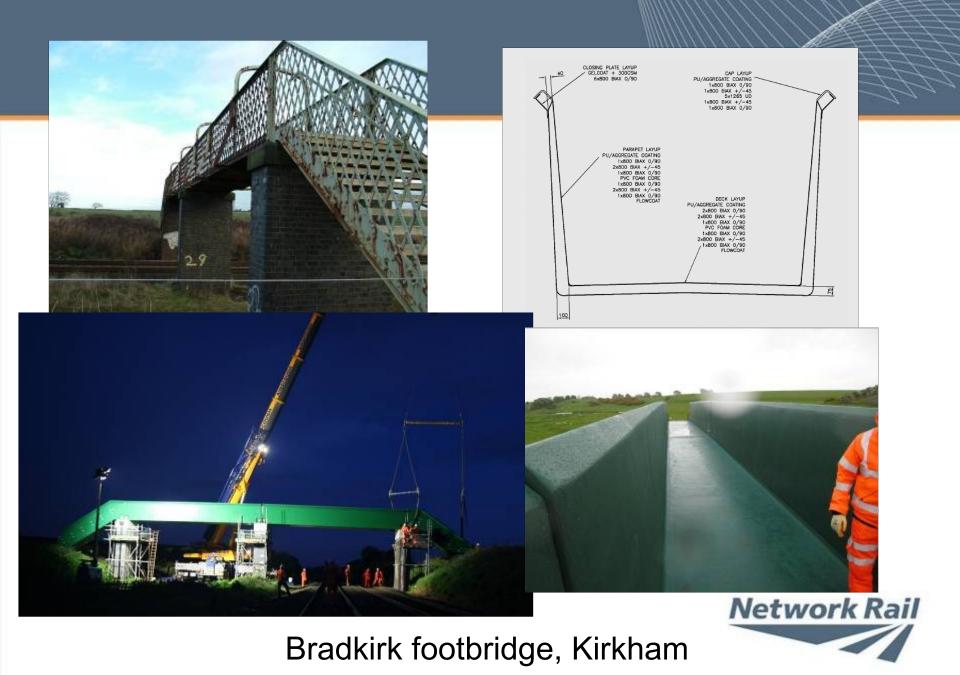
St Austell footbridge







Keadby canal bridge – towpath bridge



Standen Hey farm overbridge





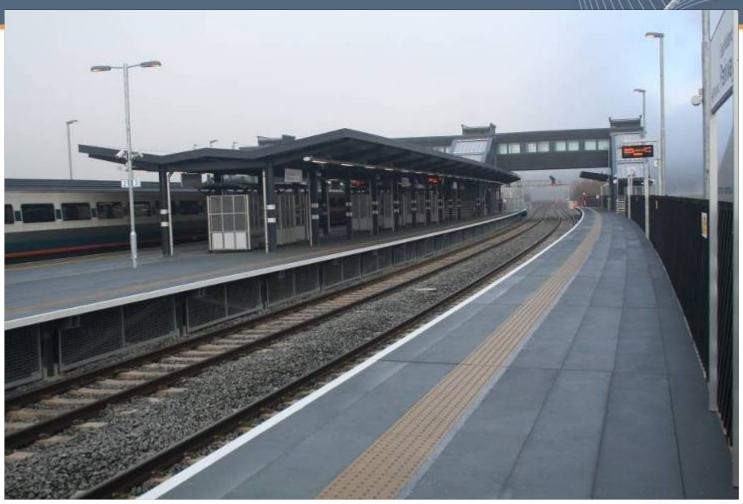




Launder Aqueduct







East Midlands Parkway



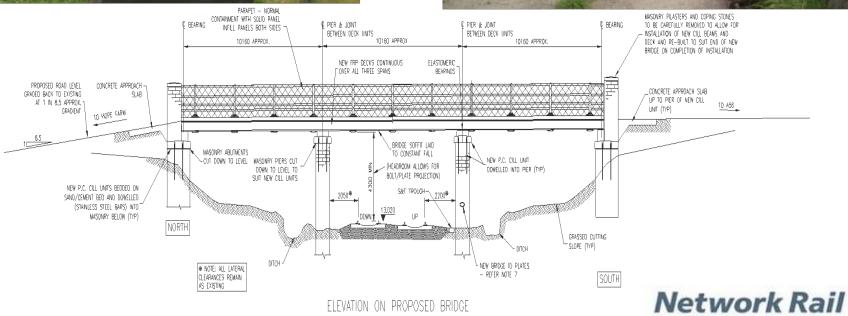
The immediate future











New superstructure for Yew Lane, Helsby