

What's happening?

Best practice at Anglia Platform Extensions

Overview:

VolkerFitzpatrick as part of the Thameslink Programme are extending the existing platforms at Shepreth and Foxton stations so that the new, longer trains do not obstruct the level crossings. This will reduce unnecessary delays to local traffic and pedestrians as well as increasing the capacity for the route.

As the designs for platform extension works at both stations are very similar there was opportunity to reuse materials from one site to the other where works were not required to occur concurrently. VolkerFitzpatrick, the principal contractor and their main sub-contractor Walker Construction identified the potential for reusing the timber shuttering for the second station following some minor adjustments of the shutters. The design for the temporary works enables the reuse of the shutters from Shepreth to Foxton Station. The designs for both stations were identical apart from the shutters at Foxton were slightly shorter. Once the capping beams had been cast at Shepreth, the shutters were stripped, modified and installed using the same process at Foxton Station.

Benefits:

- Reuse of the shuttering saved 2100kg of timber
- An equivalent carbon saving of 1.7 tonnes.
- Material and labour saving of £6600
- Less risk to workforce in needed to make shuttering for both platforms
- Less noise as only one set of shutters required to be made onsite
- Shutters were donated to the landowner neighbouring the project whose access was utilised during the works

Meeting our objectives & targets

This case study is applicable to the following Sustainability Delivery Objectives:

All projects to reduce and divert at least 90% of waste from landfill using the waste hierarchy.

In undertaking this we helped maximise resource efficiency during construction. Adopting the waste hierarchy ultimately reduced the total of timber waste produced by the project. Timber waste generation was eliminated by 60% in planning and delivering the works in this fashion.

Apply BPM to minimise impact from noise & vibration and air pollutants and monitor performance.

A reduction in onsite fabrication due to reuse of temporary works meant that less noise was generated.

