



A64(M) Motorway

THORMAJOINT®



Key Details

Location:

Leeds, England

Date:

2022

Product:

Thormajoint®

BJ200 Green

Application details:

Aggregate

- 20 mm Green Granite

Bridging plate

- 150 mm wide x
3 mm thick
- Mild steel

Substrate type

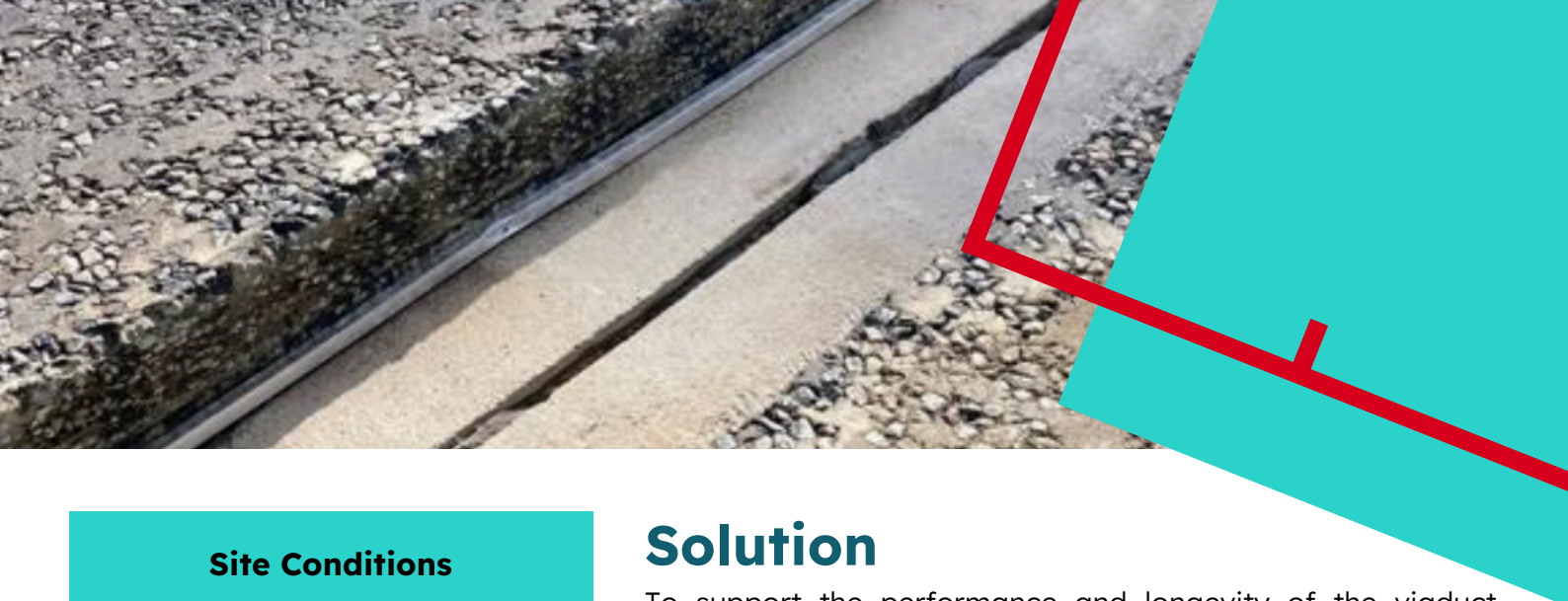
- Hot Rolled Asphalt

The Challenge

The A64(M) is officially recognised as the UK's first urban motorway, constructed in the 1960s as part of the Leeds inner ring road. At just 1.1 km long, it is one of the shortest motorways in Britain, yet plays a critical role in the regional transport network by allowing traffic to bypass Leeds city centre and reduce congestion. Around 50% of the route is on an elevated multi-span viaduct, making it a highly bridge-intensive section of motorway despite its relatively short length.

Linking Leeds with York and Scarborough and connecting major routes including the A65, A660, A58, A61 and A64, the route requires dependable infrastructure capable of supporting constant traffic flow.





Site Conditions

Ambient Temperature	5-12°C
Expansion Gap	20-40 mm
Joint Width	500 mm
Joint Depth	115-155 mm
Joint Length	7.2-10.5 m
Skew Angle	0°

Solution

To support the performance and longevity of the viaduct section, more than 21 Thormajoint® asphaltic plug joints were installed. A dry-stone installation method was used, building the system in layers up to 40 mm thick, to maintain the correct binder-to-aggregate ratio and provide precise control during placement. The BJ200 Green binder was selected for its suitability to the UK climate, with temperatures closely monitored throughout the application to ensure optimal flow and penetration, fully filling voids within the joint.

Result

The staged and controlled installation process delivered durable and reliable expansion joints with a stable binder structure and consistent compaction. A full road closure allowed all joints to be installed efficiently, avoiding prolonged disruption, and enabling the route to reopen promptly for public use. The final system provides long-term resilience and performance, supporting smooth traffic flow across one of Leeds' most important transport links.



About Thormajoint® BJ200 Green

Designed to deliver reliable performance in temperate climates.

- ✓ Suitable in climates with temperatures ranging from -10°C to +35°C.
- ✓ Excellent deformation resistance and movement capability.
- ✓ Type-approved and registered with the UK Department of Transport.
- ✓ Low cost, low maintenance solution compared to other joint systems.