

## PROJECT DETAILS

**CLIENT** MAT Foundry Group

**PROJECT** Eurac Pool Re-roofing & Associated Works

**LOCATION** 16 Mannings Heath Road, Poole, Dorset, BH12 4NJ

**START DATE** 12 July 2021

**DURATION** 18 Weeks

**END DATE** 21 November 2021

**VALUE** £552,713

**RTM** OJEU Open Procedure

**CONTRACT** JCT Intermediate with Contractor Design Portions

**ROLE** Principal Contractor



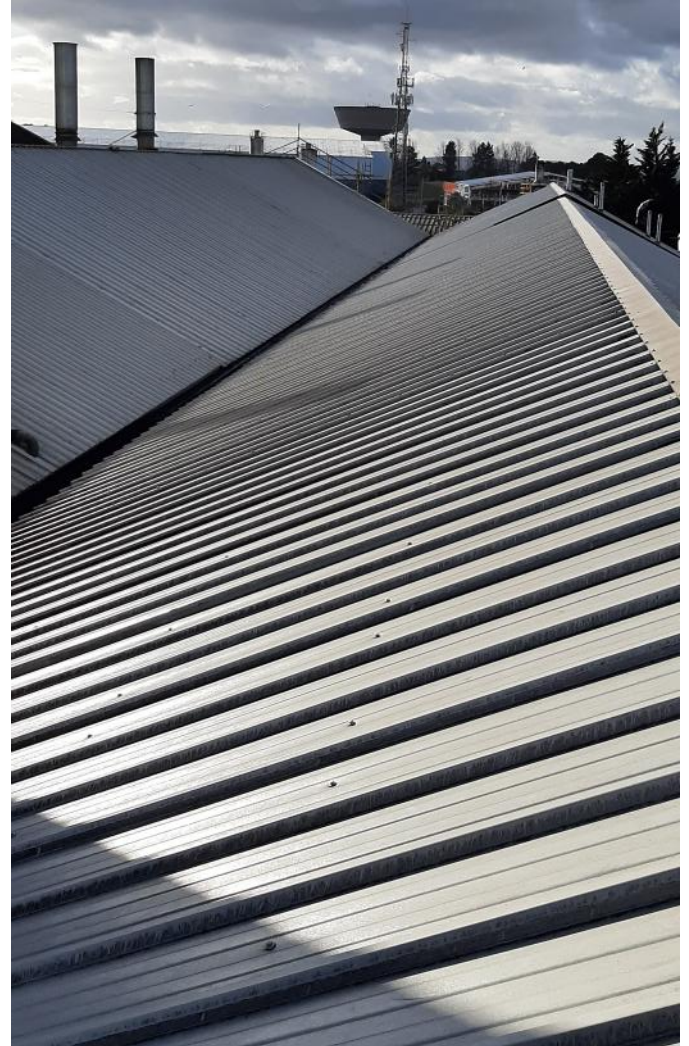
## PROJECT SUMMARY

Constructed in the 1940s and operated by MAT Foundry Group, Eurac Poole is a manufacturing foundry specialising in engineering, casting and distribution of brake disc products. Operating 24/7/365, the foundry comprised two production halls where approximately 2,000m<sup>2</sup> were overlain with multiple layer asbestos cement roofs incorporating Georgian wire rooflights. Upon inspection, these roofs were found to be aged and fragile and, could no longer be relied upon for weather protection or structural integrity.

McConnell were appointed as Principal Contractor with responsibility for completing all structural and asbestos surveys; managing specialist designers and sub-contractors and; designing; specifying and installing additional load-bearing steel purlins; a new roof structure above the furnace; replacement roof covering across Halls 1 and 2; new roof lights to current standards and all associated works.

## SCOPE OF WORKS

- ▶ Re-roofing & associated structural works
- ▶ Specialist external scaffold design & roof protection
- ▶ Specialist internal scaffold protection.
- ▶ Removal of multi-layer asbestos cement roof
- ▶ Removal of glass reinforced plastic sheet roofing
- ▶ Replacement of obsolete Georgian wire rooflights
- ▶ Removal of redundant services
- ▶ Installation of bar and bracket quilt insulation and plastisol coated profiled roof sheets
- ▶ Installation of through-fixed insulated waterproof roof panels
- ▶ Installation of new galvanised, liquid plastic coated gutters



## CRITICAL SUCCESS FACTORS

- ▶ We appointed a specialist subcontractor to design an appropriate external scaffold in compliance with the Working at Height Regulations. We extended the scope of our scaffold design to include a specialist, internal, under roof, high level "birdcage scaffold" where the top lift of the scaffold was double boarded and securely wrapped in polythene to prevent any debris falling onto the furnace or the production lines operating in Halls 1 & 2.
- ▶ The existing multi-layered asbestos cement roof sheets were removed in complete sections. These were double wrapped in polythene in compliance with an approved method statement before being segregated into a designated hazardous (asbestos) waste skip and removed from site by a licenced waste carrier in full compliance with the Control of Asbestos Regulations.
- ▶ We commissioned a specialist structural engineer who provided, a structural survey, load calculations, designs and specifications for the installation of additional galvanised steel purlins.
- ▶ Our careful high level segregation of the roofing works, the introduction of the internal, under roof, bird cage scaffold and, the stringent application of safe operating procedures incorporating risk assessments and method statements for working above a fully operational furnace, ensured that foundry production was safely maintained 24/7/365.
- ▶ Our programme of works included a critical path sequence where the foundry output was "dialed down" during back-shifts so that we could complete internal and external works safely.
- ▶ We made provision for the foundry's Carbon Dioxide, Silica and Coal dust emissions via site specific risk assessments, method statements and mandatory safe operating procedures where all potential sources of ignition were prohibited and FFP3 face masks were compulsory during the works.