



Sunlight House Manchester

Scope of Fabrication Works to Frame

This method has been selected specifically to retain as much of the original material as possible, preserving the character and integrity of the structure while carrying out essential repairs. By cutting back and supplementing only the necessary sections, rather than full replacement of the T-section, this approach maintains original structural openings, detailing and reduces the extent of intervention.

It is proposed to replace the corroded horizontal metalwork on the entire bottom section, the second section and some on the third, dependent upon further assessment as referenced on the Steelwork Drawing attached.

Drawing Register

13590 Sunlight House - Paint Analysis
Sunlight House - Frame Drawing Metal Work V1.2
Rustoleum-Noxyde-Plus-PDS-promain-19-09-2024



Methodology

1. Removal of Vertical Square Rods (If Required):

Where necessary, carefully remove the rods, ensuring any fixings or welds are cleanly cut or ground back without damaging the surrounding steelwork. All rods are to be labelled and retained for accurate reinstallation.

2. Preparation of Tee Section – Front Face Cut Back:

Trim 3mm from the front face of the existing horizontal tee section. This reduction is required to allow the newly fabricated steel section to sit flush with the vertical frame members and ensure a smooth, continuous appearance across the elevation. All cut surfaces are to be de-burred and prepared for welding.

3. Retention of Rear Tee Section:

The rear portion of the existing tee section is to remain in place, securely bolted to the structural support brackets. This will maintain the structural integrity of the frame during the replacement works and act as a stable mounting surface for the new front plate. All fixings are to be checked and tightened as necessary before proceeding.

4. Installation and Welding of New Front Tee Section:

The new front section of the horizontal tee, fabricated to match the existing profile and pre-prepared for welding, will be positioned flush against the trimmed original. Once aligned and clamped in place, it will be stitch welded along its length to securely bond it to the remaining rear section.

5. Reinstallation of Vertical Square Rods:

Vertical square rods will be reinstalled. These will be carefully aligned with their original positions and securely fixed to the new tee face, either by welding or bolting as appropriate.



6. Decoration

Surface Preparation

- Mechanical preparation of all steel surfaces to remove loose rust, old coatings, and contaminants
- Clean down using industrial vacuuming and solvent wipe as required.
- Ensure steelwork is dry, dust-free, and ready for coating application.

Priming

- Apply approved primer system (manufacturer specified) to all prepared steel.
- Ensure primer achieves correct coverage and dry film thickness (DFT).

Noxyde Coating Application

- Apply first coat of Noxyde using airless spray or brush/roller for difficult access areas.
- Allow curing time as per technical data sheet.
- Apply second coat of Noxyde to achieve required DFT and uniform finish.
- Inspect between coats for quality and coverage.

Final Inspection & Handover

- Carry out visual inspection and DFT checks.