

Client: [REDACTED]

Address: [REDACTED]

Weather Condition: Dry & Cloudy







Overview

The provided images (labelled as **H1**, **H2**, and **H3**) reveal extensive fire damage to the roof and upper structure of the property. The roof and interior framing appear severely compromised, with significant destruction caused by the fire. Immediate structural intervention and a comprehensive assessment are required to evaluate the safety and integrity of the remaining structure.

Key Observations:

1. Roof Structure Condition:

- **Image H1** shows extensive fire damage to the roof, with sections of roof tiles

entirely missing, exposing the underlying structure. Charred beams and broken tiles indicate severe compromise to the roof's structural stability. The large gaps left by destroyed materials suggest that the roof can no longer provide adequate shelter or support.

- Visible charring and extensive damage to the roof in **Image H2** further highlight the structural risks. The missing roofing materials and timber beams leave the interior exposed to the elements, and any remaining sections of the roof likely lack sufficient integrity, presenting a risk of collapse if left unsupported.

2. Chimney Stack Condition:

- **Images H1** and **H3** show that the chimney stacks remain upright, despite the extensive damage around them. There is minor visible charring near the chimneys, but the stacks themselves do not show signs of imminent collapse from the fire. However, high temperatures may have affected the brickwork and mortar, potentially weakening these structures.
- Given the thermal stress endured, the stability of the chimneys should be professionally evaluated to ensure they have not been compromised, especially where mortar may have weakened due to heat exposure.

3. Interior Roof Framework:

- **Image H2** provides a clear view of the interior framework supporting the roof, which appears extensively charred, with multiple sections entirely missing. The remaining beams are visibly compromised, likely rendering them structurally unsound. This level of destruction indicates that most, if not all, of the internal roofing structure will need to be replaced.
- The interior is littered with collapsed materials and debris, indicating a need for thorough debris removal before a complete structural assessment can be conducted. This includes removing charred beams, loose tiles, and any other

remnants that may no longer serve a functional purpose.

4. Surrounding Roof Tiles:

- The roof tiles surrounding the heavily damaged areas in **Images H1** and **H3** may also be at risk, given the structural instability of the roof beneath them. Even tiles that appear intact might have been compromised by the heat and could dislodge under adverse weather conditions or during any repair process.

Recommendations:

1. Structural Assessment and Demolition:

- A full structural assessment is essential to evaluate the safety of the remaining roof framework and chimney stacks. Any unstable sections should be safely demolished to prevent further collapse, particularly where charred beams are visibly damaged, as seen in **Images H1** and **H2**.

2. Chimney Stability Check:

- Although the chimneys appear structurally intact in **Images H1** and **H3**, a professional stability assessment is recommended. Thermal stress from the fire may have weakened mortar joints, which may not be immediately apparent. Repointing or reinforcement may be required if any structural weaknesses are identified.

3. Debris Removal and Site Clearance:

- The extensive debris seen in **Image H2** should be carefully cleared, including charred wood, broken tiles, and other structural remnants. This will allow a thorough inspection and mitigate the risks associated with falling materials.

4. Roof and Framework Replacement:

- Given the extent of the damage, a complete roof replacement is likely necessary,

including new timber framing, insulation, and roofing materials. Modern fire-resistant materials should be considered in the reconstruction to enhance future resilience.

- The surrounding tiles, especially those visible in **Images H1** and **H3**, should be inspected for any heat damage and replaced as needed to ensure a stable, safe roof once reconstruction is complete.

5. Safety Precautions During Reconstruction:

- Due to the compromised state of the structure, access to the affected areas should be restricted until the damaged sections are stabilised or removed. Safety barriers and clear signage are recommended to secure the site and prevent unauthorised access.

Conclusion:

The fire has caused extensive and severe damage to the roof and upper structure, as illustrated in **Images H1, H2, and H3**. Immediate action is essential to assess, secure, and plan for the reconstruction of the roof and possibly parts of the internal framework. Proper safety measures and professional inspections will be critical in restoring the property to a safe and functional condition.