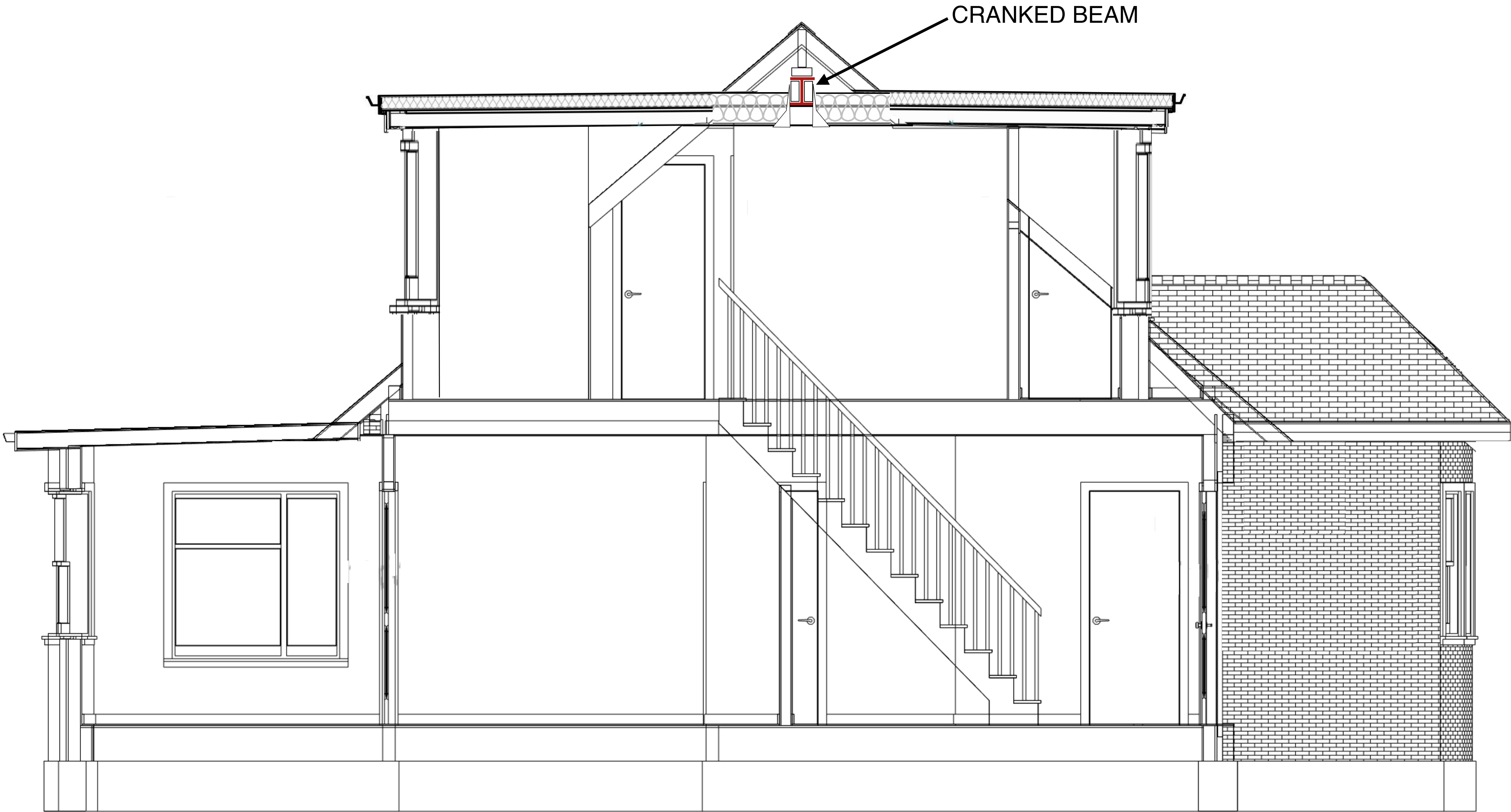


DORMER FLAT ROOF CONSTRUCTION GUIDELINES:

- **Single Ply Membrane Roofing:**
 - Use single-ply membrane roofing with an AA fire rating for surface spread of flame.
 - Ensure the membrane has a current BBA or WIMLAS Certificate and is laid to specialist specifications.
- **Roof Structure:**
 - Fix the single-ply membrane to 22mm exterior quality plywood.
 - Place it over 150mm 'Ecotherm Eco-torch' insulation for enhanced thermal performance.
- **Insulation Installation:**
 - Bond the insulation to 22mm external quality plywood decking or a similarly approved material.
 - Ensure a minimum 1 in 80 fall on treated 50mm x 175mm C24 joists spaced at 400mm intervals.
- **Underside Finish:**
 - Finish the underside of joists with 12.5mm foil-backed plasterboard.
 - Apply a 5mm skim plaster finish for a polished appearance.
- **Restraint Measures:**
 - Provide restraint to the flat roof by fixing 30 x 5 x 1000mm M.S. galvanised lateral restraint straps.
 - Fix these at a maximum of 2000mm intervals, anchoring them to 100 x 50mm wall plates and securing them to the wall.
- **Performance Objective:**
 - Aim to achieve a U-value of 0.15W/m*K for optimal thermal efficiency.

ROOF INSULATION GUIDELINES:-

- **Ceiling-Level Insulation:**
 - Install 150mm 'XR4000 Celotex' insulation between ceiling joists.
 - Add an additional 25mm insulation layer over the joists.
- **Chipboard Covering:**
 - Provide 18mm chipboard over the insulation for structural support.
- **Vapour Barrier Installation:**
 - Integrate a polythene vapour barrier between the insulation and plasterboard for moisture control.
- **Ventilation Measures:**
 - Create openings at eaves level, ensuring at least equal to a continuous strip 25mm wide on two opposite sides to facilitate cross ventilation.
- **Performance Objective:**
 - Aim to achieve a U-value of 0.16W/m*K for optimal thermal efficiency.



Section A - A 1 : 50

THE Loft Conversion

Company Ltd

Loft Conversion Specialists

www.loftsUK.com

25

Years

Experience

10

Years

Warranty

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Mr & Mrs Molloy

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Date **JULY 2024**

DESCRIPTION OF WORKS
MODERNISE EXISTING LOFT CONVERSION.
EXTEND EXISITNG DORMERS.
CREATE 1 ADDITIONAL ROOM.
INSTALLATION OF NEW ROOF TILES.

SHEET 7. A3

SCALE **1 : 50**

NOTES

