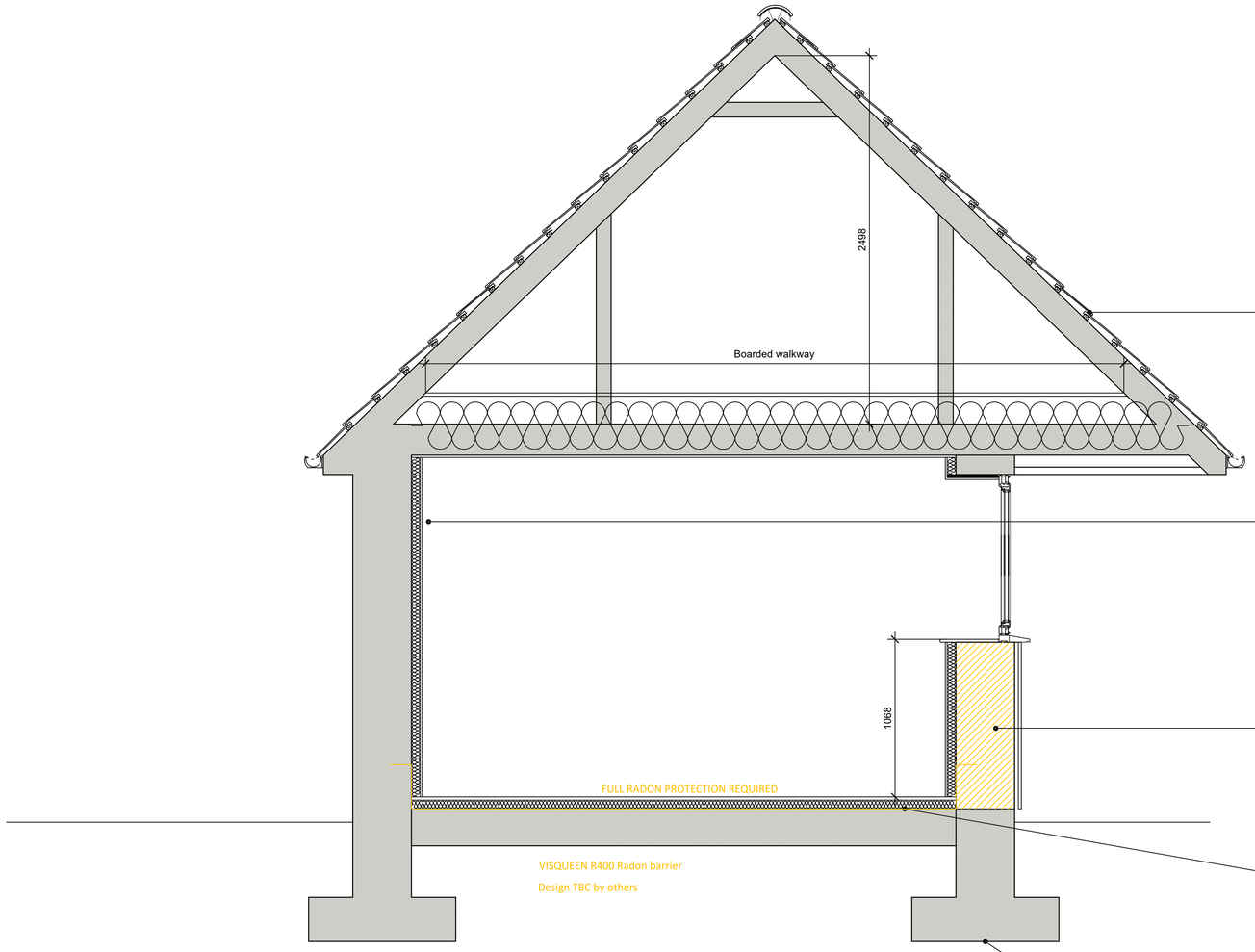


Typical Section
1:20

INSULATION AT CEILING LEVEL

To achieve U value of 0.10 W/m²K

Remove existing breathable membrane and provide traditional felt sarking with ventilation to eaves and ridge.

Insulation at ceiling level to be 2 layers of Rockwool insulation to total 400mm laid between and over ceiling joists, cross laid at right angles.

Provide polythene vapour barrier between insulation and plasterboard. Provide opening at eaves level at least equal to continuous strip 25mm wide in two opposite sides to promote cross ventilation. Allow for all structure as designed by a Structural Engineer. Underside of ceiling to be lined with 15mm fireboard.

Provide full boarded walkway throughout the entire loft.

Uninsulated cavity wall upgrade

To achieve a U-value of 0.28W/m²K.

The existing external walls must be checked for stability and be free from defects and moisture as required by the Building Control Officer. Provide 72.5mm insulated dry lining board manufactured to EN ISO 9001:2000 with 3mm skim plaster.

Prior to commencement of works, check with Building Control Officer.

Plasterboard to be bonded, using dot and dab, to the existing construction with proprietary adhesive at 300mm centres vertically/horizontally and in accordance with manufacturer's instructions. Tape joints and seal perimeter edges with mastic, to provide a vapour control layer (VCL). All work in accordance with BS 8212 (Code of practice for dry lining).

Infill Wall

Contractor to investigate existing construction and confirm that a cavity is present. New construction to match existing, with the exception of the facing stone. Assumed 100mm medium dense blockwork with a 100mm clear cavity. Clear cavity to be maintained and provide blockwork outerleaf to correspond with cavity, all to be tied into existing construction.

Provide 25 x 50mm vertical battens with ventilation and insect mesh and finish with 20mm oak cladding.

Internal wall insulation as per specification.

UPGRADING EXISTING SOLID FLOOR

To meet min U value required of 0.25 W/m²K

The existing solid floor slab must be checked for stability and be free from defects, as required by Building Control. The existing floor will need upgrading to ensure adequate damp protection and to prevent heat loss. Provide 1200 gauge polythene DPM or 3 coats RIW over existing concrete slab (if required). DPM to be lapped in with dpc in walls. Floor to be insulated over slab and DPM with min 60mm Kingspan Thermafloor TF70, 25mm insulation to continue around floor perimeters to avoid thermal bridging.

A VCL should be laid over (and under if required by the manufacturer) the insulation boards and turned up 100mm at room perimeters behind the skirting, all joints to be lapped 150mm and sealed. Finish over the insulation with a floating layer of min 20mm softwood tongue and groove softwood boards or moisture resistant particle/chipboard grade type C4 to BS EN 312. Lay with staggered joints. Care should be taken to ensure any existing airbricks are not obstructed by this work. If so, they should be extended through the new floor to external air.

Existining slab and foundation to be checked for stability by Structural Engineer

GENERAL NOTE

Do not scale.

This drawing to be read inconjunction with Structural Engineers drawings & calculations for all sub-structures, including below ground drainage & external works. Window / Door specialist drawings, M&E Consultant drawings & sub-contractors drawings & performance specifications for all specialist design elements. All works shall be carried out in strict accordance with the British Standards Codes of Practice relating to Workmanship and Materials, & current manufacturers details & instructions where appropriate.

KEY TO WALL TYPES

Proposed U values

External Walls	0.28w/m²k
Roof	0.10w/m²k
Ground Floor	0.25w/m²k
Windows	1.4w/m²k
Doors	1.4w/m²k

Note: Refer to SAP Calculations

89mm timber frame stud with 12.5mm plasterboard and skim

Infill wall to match adjacent

To be demolished. All walls to be inspected by Engineer.

Uninsulated cavity wall upgrade
To achieve a U-value of 0.28W/m²K.

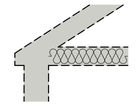
The existing external walls must be checked for stability and be free from defects and moisture as required by the Building Control Officer. Provide 72.5mm insulated dry lining board manufactured to EN ISO 9001:2000 with 3mm skim plaster.
Prior to commencement of works, check with Building Control Officer.
Plasterboard to be bonded, using dot and dab, to the existing construction with proprietary adhesive at 300mm centres vertically/horizontally and in accordance with manufacturer's instructions. Tape joints and seal perimeter edges with mastic, to provide a vapour control layer (VCL). All work in accordance with BS 8212 (Code of practice for dry lining).

Lintel/ steel to ENG details

Structural timber to ENG details

DRAINAGE SHOWN AS INDICATIVE ONLY. EXISTING DRAINAGE RUNS TO BE CONFIRMED BY CONTRACTOR AND LAYOUT TO BE DETERMINED ON SITE. STORM WATER TO RUN TO NEW SOAKAWAY, TO BE DESIGNED BY ENGINEER.

Upgrade of Roof



Existing roof structure to be exposed by contractor. All existing insulation to be removed and replaced with min 400mm mineral wool.

Client	Michael Patrick O' Keeffe		
Project	Twr Mihangel, Abergavenny, NP7 8DH Stable Conversion		
Title	Proposed Plans and Elevations		
Date	Scale	Dwg No.	Rev.
July 24	As Shown @ A1	C103	

RA Rockfield Architecture