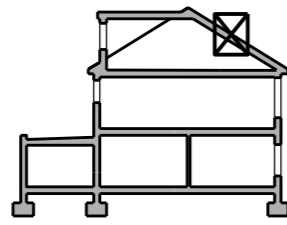


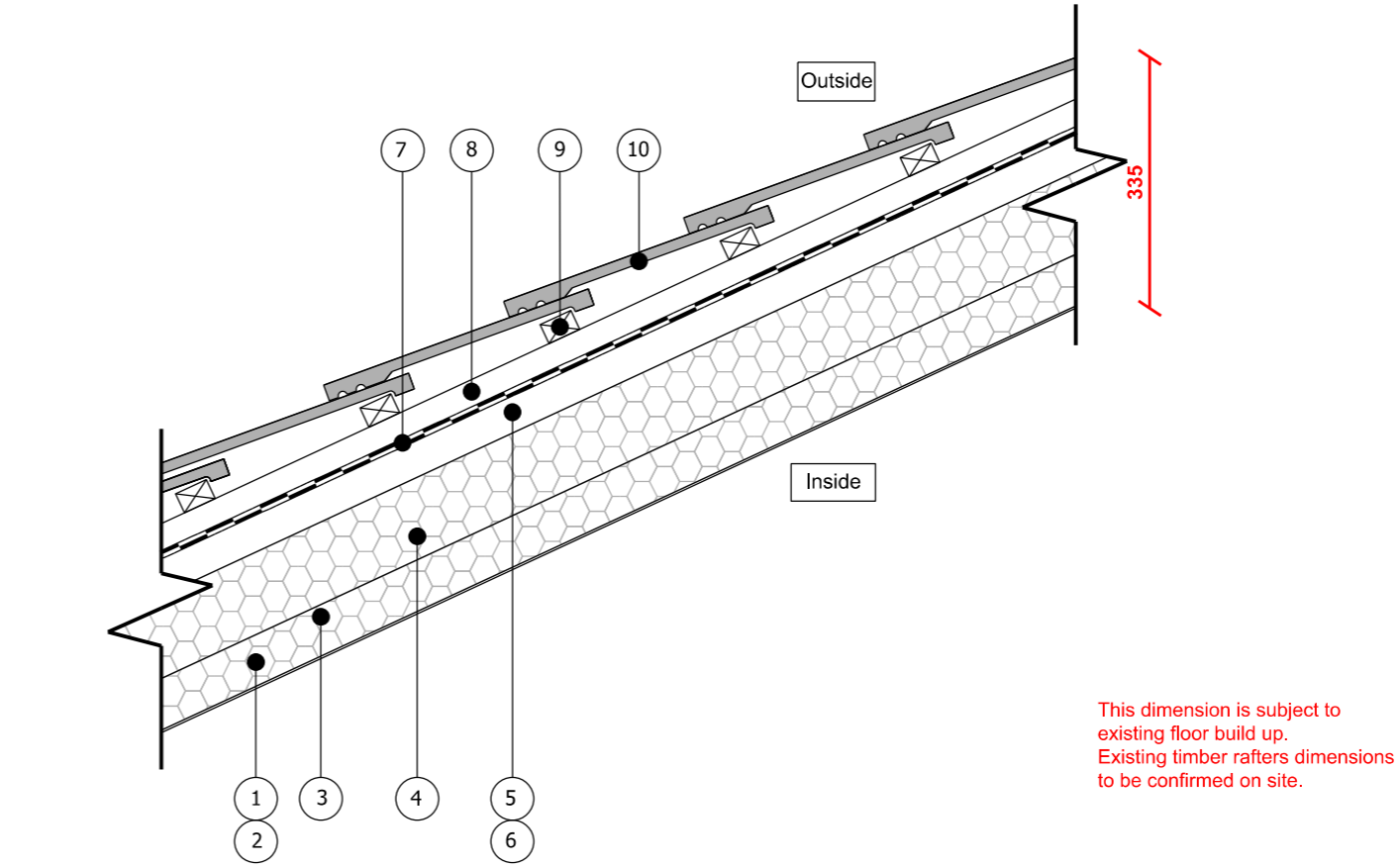
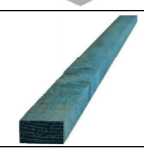
R04 Existing Cold Pitched Roof Thermal Upgrade			
Detail performance	Units	Minimum requirement	Modelled
Airborne Sound Insulation	dB Rw+Ctr	Change of use New Build	n/a n/a
Impact Sound Insulation	dB LnTw	Change of use New Build	n/a n/a
Thermal Performance	U-value (W/m <sup>2</sup> K)	<0.15	0.14
Fire Resistance		n/a	n/a



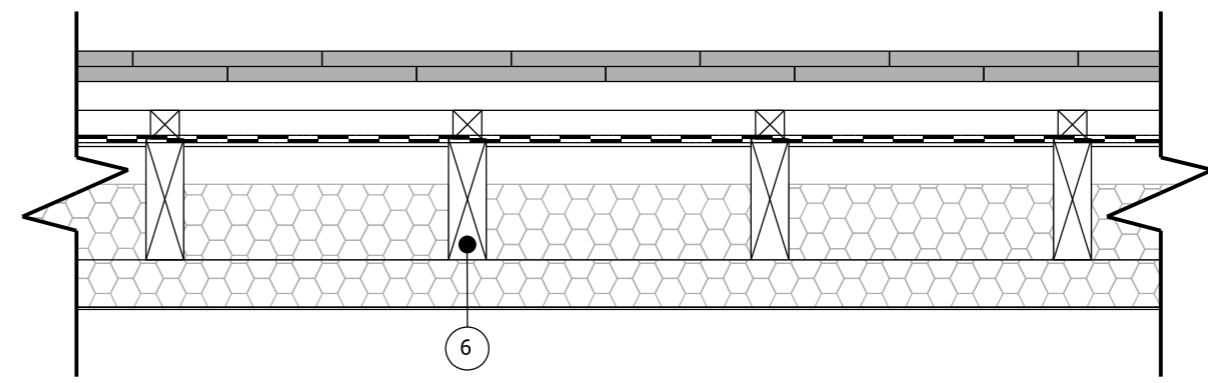
	Materials Description	Size	Manufacturer	Product Reference
1	Matt paint finish	n/a	Dulux or acceptable equivalent	Dulux Trade Vinyl Matt
2	Skim coat plaster	3 mm	British Gypsum or acceptable equivalent	Thistle BoardFinish
3	Insulated plasterboard layer	62.5 mm	Kingspan or acceptable equivalent	Kooltherm K118 62.5mm
4	Thermal insulation	100 mm	Kingspan or acceptable equivalent	Kooltherm K107
5	Clear Roof Void	50 mm	n/a	n/a
6	Existing timber joists inspected and repaired	TBC	n/a	n/a
7	Breathable membrane	0,5 mm	Kingspan or acceptable equivalent	Nilvent breathable membrane
8	Counter-battens	38x38mm	Lawsons or acceptable equivalent	38x38 roof tiles battens
9	Tiles battens	38x38mm	Lawsons or acceptable equivalent	38x38 roof tiles battens
10	Roof tiles	267x168mm	Marley or acceptable equivalent	Concrete plain tiles

**Additional Notes & Specifications**

- Description:** Water based emulsion paint to plastered surfaces.  
**Preparation:** Thoroughly clean down the surfaces to remove all dirt, grease and surface contaminants and allow to dry.  
**Composition:** Acrylic copolymer.  
**Sheen:** Matt.  
**Colour:** Refer to the Design Drawings.
- Description:** Skim coat plaster.  
**Preparation:** Complete 1st and 2nd coat, total thickness for both coats should be a minimum of 2mm. Final trowel to a matt finish (lubricated with minimal water).  
**Composition:** Retarded hemihydrate, pre-mixed gypsum plaster.  
**Sheen:** n/a  
**Colour:** n/a
- Description:** Insulated plasterboard layer inclusive of vapour control layer and 12.5mm gypsum based plasterboard.  
**Preparation:** To be installed as per manufacturer's specifications. Suitable for both direct adhesive bonding (dot and dab) and mechanically fixed installation.  
**Composition:** PIR.  
**Sheen:** n/a  
**Colour:** n/a
- Description:** Fire resistant PIR insulation board  
**Preparation:** To be installed as per manufacturer's specifications  
**Composition:** PIR board made from Polyisocyanurate rigid core and faced on both sides with low emissivity aluminium foils  
**Sheen:** n/a  
**Colour:** n/a
- Description:** Breathable membrane  
**Preparation:** To be installed as per manufacturer's specifications  
**Composition:** 3-layer polyolefin construction  
**Sheen:** n/a  
**Colour:** n/a
- Description:** Planed and regularised timber, kiln dried, treated and BS5534 graded  
**Preparation:** To be installed as per manufacturer's instructions  
**Composition:** Wood.  
**Sheen:** n/a  
**Colour:** n/a
- Description:** Roof tiles as agreed with client  
**Preparation:** To be installed in accordance with manufacturer's details.  
**Composition:** Concrete (to be confirmed)  
**Sheen:** n/a  
**Colour:** to be confirmed



This dimension is subject to existing floor build up. Existing timber rafters dimensions to be confirmed on site.



Refer to planning drawings for proposed materials and any applicable planning conditions. Similar performance products may be used. Subject to BCO approval. Contractor to follow manufacturer's instructions and recommendation.

R04 Existing Cold Pitched Roof Thermal Upgrade  
1:10@A3

1. This drawing remains copyright of Windsor & Patania Architects and may not be reproduced or copied without consent in writing.  
2. Print out to actual scale. Do not scale drawing use figured dimensions only. All dimensions to be cross-checked on-site by the appointed contractor prior to manufacture and construction  
3. Any discrepancies between site and drawings to be reported to the Windsor & Patania Architects immediately.  
4. Read in conjunction with all relevant drawings and documentation produced by other consultants  
5. All structural elements to be agreed with local authority Building Control prior to commencement of works.  
6. Attention is drawn to the provisions of the party wall act 1996. Legal boundaries should be determined by others.  
7. All suggested demolition works to be reviewed by a Structural Engineer and to be assessed on site prior to demolition.  
8. All areas are approximate and are to be used for indicative purposes only. Areas don't take into account possible variations related to the impact of Site Conditions, Structure, Drainage and M&E.  
9. Windsor & Patania Architects accepts no liability for any expense, loss or damage of whatsoever nature and however arising from any variation made to this drawing or in the execution of the work to which relates which has not been referred to them and their approval obtained.  
10. Contractors to be responsible for the design and supply of all temporary works ( i.e. bracing, propping, showing, tying, etc ) and the security, stability, and safety of the building works.

**DRAFT-03**

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Drawing title  
**CONSTRUCTION DETAIL**

date  
**SEPTEMBER 2023**

drawing number  
**R04**

scale  
sheet no.