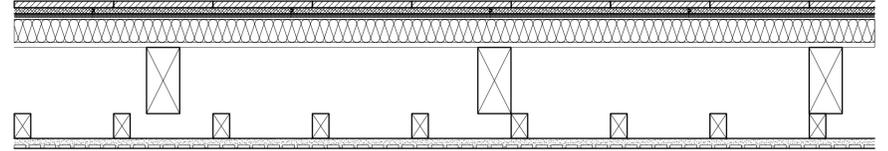


**DETAIL A - ROOF VOID TO BEDROOM 5 (BATHROOM 5) - as existing.**

**Ceiling construction:**

Assumed approx. 30mm lime plaster on timber laths nail fixed to 50 x 75mm ceiling joists at 300mm centres. 100 x 200mm beams running parallel to ceiling joists, set above at approx. 1000mm centres. 75 x 85mm floor joists at 400mm centres, over beams. Over floor joists, previous 30mm lime ash floor, incorporating laths - now removed by Contractor.



**DETAIL B - ROOF VOID TO BEDROOM 5 (BATHROOM 5) - as proposed.**

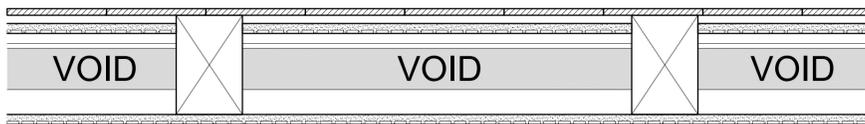
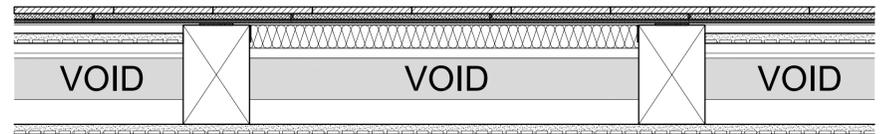
**Upgrading Strategy:**

Pugging/lime-ash floor has been removed by the Contractor.

Between existing floor joists, install Karma TNF70 Batts as Bedroom 5.

Over existing floor joists lay Karma Masspanel on Resilient Acoustic Foam Strips as Bedroom 5.

*Destroyed/Missing Pugging Alternative*



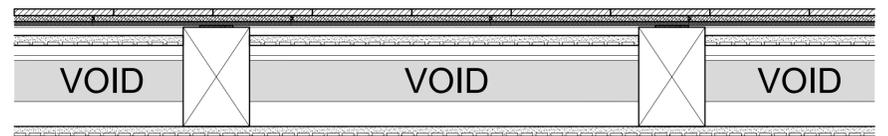
**DETAIL C - BEDROOM 5 - as existing.**

**Ceiling construction:**

Assumed approx. 30mm lime plaster on timber laths nail fixed to ceiling 50 x 75mm joists at 400mm centres. Joists dovetailed into sides of 200 x 300mm beams. Beams at centres (as shown on plan), 75 x 100mm floor joists dovetailed into sides of 200 x 300mm beams - upper surface aligning with upper face of beams. Between upper joists, 50 x 30mm battens face fixed to joists, set approx. 55mm down from upper face. Fixed over battens 30mm lime ash pugging, incorporating laths. Top of pugging set approximately 23mm down from top of joists.

**Void:**

From top side of lath to top of floorboards approx. 320mm.



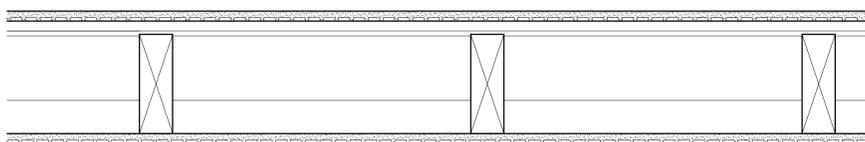
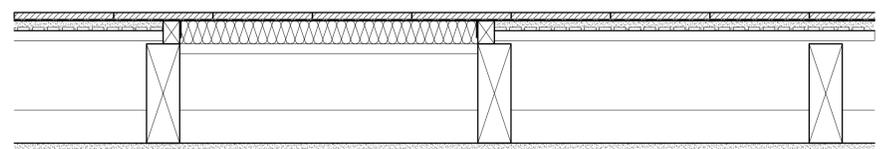
**DETAIL D - BEDROOM 5 - as proposed**

**Upgrading Strategy:**

Where pugging remains intact, lag over upper floor joists and beams 100mm wide, 10mm thick, strips of Resilient Acoustic Foam Strips. Over that, spanning between joists, lay 40mm thick Karma Masspanel tongue and groove boards. Over that, re-lay floorboards.

Where pugging is missing/destroyed, relocate/replace pugging support battens to bottom of side faces of floor joists/beams, to allow for the laying of 70mm Karma TMF70 Stone Batts, supported on battens to align with top face of existing joists/beams. Seal around the joints between the batts and sides of joists/beams with Karma EX240 Sealant. Over joists/beams lay new floor construction as elsewhere.

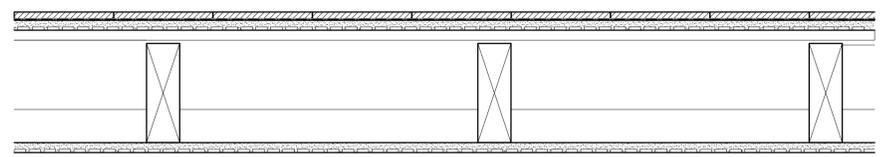
*Destroyed/Missing Pugging Alternative*



**DETAIL E - BEDROOMS 2, 3 & 4 - as existing.**

**Ceiling construction:**

Assumed approx. 30mm lime plaster on timber laths nail fixed to 75 x 100mm ceiling joists at 320mm centres. Joists dovetailed into sides of 100 x 300mm beams. Beams at approx. 1000mm centres. 250-100mm x 75-100mm floor joists (varies according to location - see report) at 300-320mm centres, rebated over sides of beams, to finish approx. 50mm above upper face of beams. Over upper joists, assumed 30mm lime ash floor, incorporating laths.

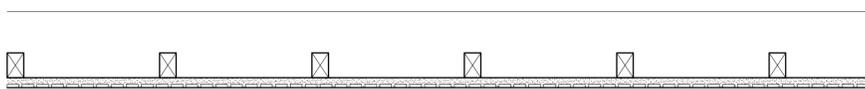


**DETAIL F - BEDROOMS 2, 3 & 4 - as proposed.**

**Upgrading Strategy:**

Where pugging/lime-ash floor remains intact, lay non-compressible geotextile layer. Over that, lay 22mm square edged boards.

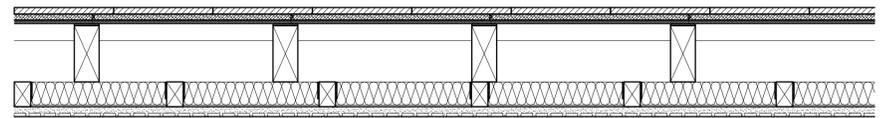
Where pugging is missing/destroyed, cut back any existing lime-ash/pugging to centre-line of adjacent joists and install stop batten. Relocate/replace pugging support battens to side faces of floor joists/beam as necessary, to allow for the laying of 70mm Karma TMF70 Stone Batts, supported on battens to align with top face of pugging/lime-ash floor. Seal around the joints between the batts and sides of joists/beams with Karma EX240 Sealant. Over exposed existing joists lay battens, as necessary to make upper face flush with surface of lime-ash floor. Over joists/beams/battens lay new floor construction as elsewhere.



**DETAIL G - ROOF VOID TO BEDROOM 1 (BATHROOM 1) - as existing.**

**Ceiling construction:**

Assumed approx. 30mm lime plaster on timber laths nail fixed to 50 x 75mm ceiling joists at 460mm centres. 120 x 200mm beams running perpendicular (East/West) to ceiling joists.

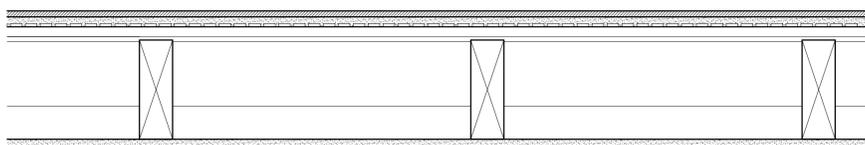


**DETAIL H - ROOF VOID TO BEDROOM 1 (BATHROOM 1) - as proposed.**

**Upgrading Strategy:**

Between existing ceiling joists, install Karma TNF70 Batts as Bedroom 5.

Above existing ceiling joists, lay new 75 x 175mm C24 floor joist (as Structural Engineer's detailed drawing P627/10). Over new joists lay KARMA Masspanel on Resilient Acoustic Strips as Bedroom 5



**DETAIL J - BEDROOM 1 - as existing.**

**Ceiling construction:**

Assumed approx. 30mm lime plaster on timber laths nail fixed to (unknown sized) ceiling joists at unknown centres - assumed to be similar to other Bedrooms. Floor joists dovetailed into sides of (unknown sized) beams. Beams at unknown centres. Unknown sized floor joists at unknown centres, assumed to be rebated over sides of beams, to finish approx. 50mm above upper face of beams as Bedrooms 2 - 4. Over upper joists, assumed 30mm thick lime ash floor, incorporating laths, all with unknown thickness plywood over.

**BEDROOM 1 - as proposed.**

Overlaid with floor boards and geotextile membrane as Bedrooms 2, 3 & 4.

**Proposed Second Floor Fire Safety Upgrading Construction Details**

Not To Scale

No.	Date	Revision Details	By
<b>Andrew Shepherd.</b> Chartered Architect, Surveyor 453 Glossop Road, Sheffield S10 2PT Telephone: 0114 2662458, Fax: 01142662459 Email: info@andrewshepherdarchitect.co.uk			
Client:			
Wortley Hall Ltd.			
Job Title:			
Proposed Conversion of Roof Spaces into Additional Residential Accommodation at Wortley Hall, Wortley			
Drawing Title:			
Proposed Second Floor Fire Safety Upgrading Construction Details			
Scale:	Not To Scale	Drawn By:	TJC
Date:	Feb 2018	By:	TJC
Job No:	03.22.15/16	Drawing No:	D/02
Revision No:			