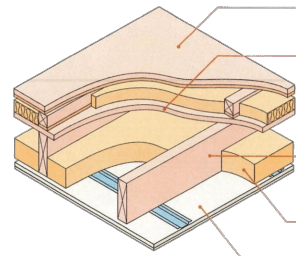


DETAIL 2
ROBUST DETAILS
TIMBER SOLID JOISTS

Separating Floor – Timber Solid Joists

E-FT-2

Timber Solid Joists ■
Use with timber frame walls only ■



Floating floor	See section 6 for suitable floating floor treatment
Floor decking	11mm thick (min) wood based board, density 600 kg/m ³ (min) or Walker Timber perforated deck system
Joists	220mm (min) solid timber joists at maximum 400mm centres
Absorbent material	100mm (min) mineral wool quilt insulation (10–36 kg/m ³) or Cellecta MICRO 50 between joists
Ceiling	See section 5 for suitable ceiling treatment

For wider joist centres

Joist spacings may be increased to maximum 600mm centres provided:

- joist depth is 240mm (min) and
- floor decking is minimum 15mm thick

Note: Structural framing details may vary slightly between different manufacturers and this is permitted, however, all dimension specifications within this Robust Detail must be adhered to.

DO

- Lay quilt between joists ensuring no gaps remain
- Ensure floating floor treatment is suitable and is installed in accordance with the manufacturer's instructions
- Ensure sub-deck quilt is laid between and not under flooring battens
- Install flanking strips around the perimeter of the flooring board to isolate floor from walls and skirtings
- Ensure resilient ceiling bars are fixed at right angles to the joists
- Ensure timber floor ceiling treatment is either CT1, CT2 or CT3 and is fixed correctly (see page 4)
- Stagger joints in ceiling layers
- Refer to Appendix A

DETAIL 3
ROBUST DETAILS
CEILING TREATMENT

Separating Floor – Timber Solid Joists

E-FT-2

5. Ceiling treatment for E-FT-2

Timber floor ceiling treatment must be either CT1, CT2 or CT3 (see below). All joints to outer layers of ceiling must be sealed with tape or caulked with sealant.

The maximum load on resilient bars should not exceed that specified in the manufacturer's instructions.

Ensure ceiling layers have staggered joints.

Services must not puncture ceiling linings (except cables, which should be sealed around with flexible sealant)

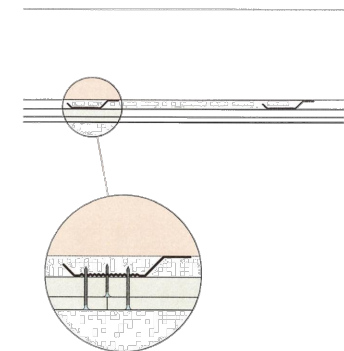
Downlighters and recessed lighting

Downlighters or recessed lighting may be installed in the ceiling:

- in accordance with the manufacturer's instructions
- at no more than one light per 2m² of ceiling area in each room unless the use of a greater density of light fittings is supported by testing undertaken in accordance with Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B - Fire Safety

Note: Only downlighters which have been satisfactorily assessed in accordance with the procedure described in Appendix F "Determination of the acoustic performance of downlighters and recessed lighting in timber separating floors" are acceptable.



CEILING BOARD FIXINGS MUST NOT PENETRATE OR TOUCH JOISTS

16mm (min) resilient bars with CT1 and CT2

16mm (min) metal resilient ceiling bars mounted at right angles to the joists at 400mm centres (bars must achieve a minimum laboratory performance of $rd\Delta R_w + C_{tr} = 17dB$ and $rd\Delta L_w = 16dB$) – see Appendix E

Ceiling treatment CT1

Two layers of gypsum-based board, composed of 19mm (nominal 13.5 kg/m²) fixed with 32mm screws, and 12.5mm (nominal 8 kg/m²) fixed with 42 mm screws

Ceiling treatment CT2

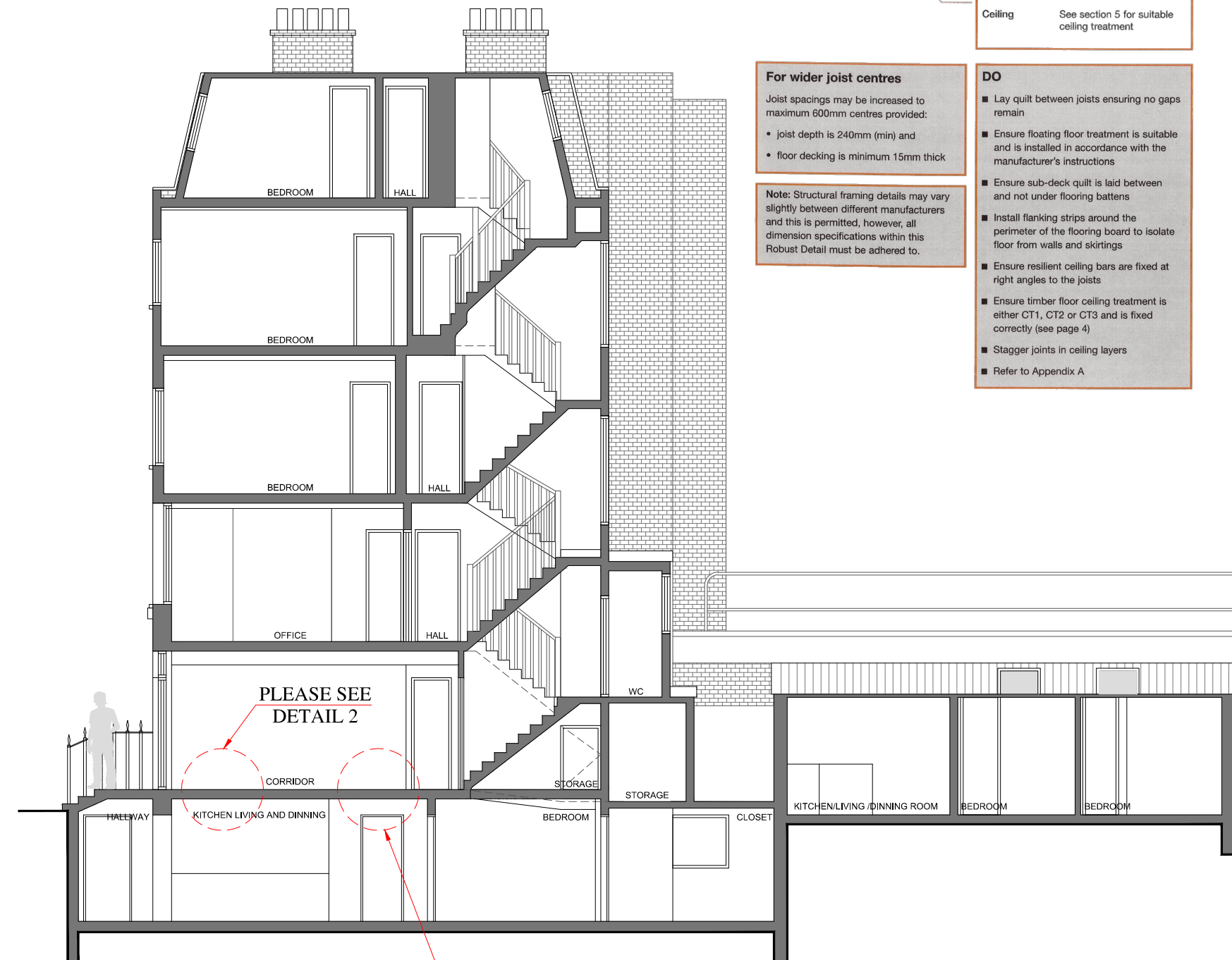
Two layers of gypsum-based boards composed of 15mm (nominal 12.5 kg/m²) fixed with 25mm screws and second layer of 15mm gypsum-based board (nominal 12.5 kg/m²) fixed with 42mm screws

25mm (min) resilient bars with CT3

25mm (min) metal resilient ceiling bars mounted at right angles to the joists at 400mm centres (bars must achieve a minimum laboratory performance of $rd\Delta R_w + C_{tr} = 17dB$ and $rd\Delta L_w = 16dB$) – see Appendix E

Ceiling treatment CT3

Two layers of gypsum-based board, composed of 10mm (nominal 12 kg/m²) fixed with 30mm screws and second layer of 10mm (nominal 12 kg/m²) fixed with 30mm screws



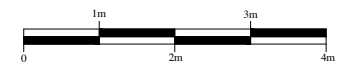
Proposed Section AA

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NOTES:
THE CONTRACTORS ARE TO CHECK ALL DIMENSIONS, DRAIN RUNS AND GENERAL CONDITIONS ON SITE BEFORE WORKS COMMENCE, AND INFORM STUDIO 47 ARCHITECTS IMMEDIATELY UPON DISCOVERY OF ANY ERRORS, OMISSIONS OR DISCREPANCIES. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS, BRITISH STANDARDS, CODE OF PRACTICE AND LOCAL AUTHORITY REQUIREMENTS. DO NOT SCALE FROM THIS DRAWING WITHOUT FIRST OBTAINING WRITTEN AUTHORIZATION FROM STUDIO 47 ARCHITECTS.
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DRAWING STATUS

PRELIMINARY	<input type="checkbox"/>	TENDER	<input type="checkbox"/>
PLANNING	<input type="checkbox"/>	BILLS OF QUANTITIES	<input type="checkbox"/>
BUILDING REGULATIONS	<input type="checkbox"/>	CONSTRUCTION	<input type="checkbox"/>
COMMENTS/APPROVAL	<input checked="" type="checkbox"/>	AS BUILT	<input type="checkbox"/>



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TITLE	Proposed Section AA		
SCALE	DATE		
A3 1:100	09/04/21		
A1 1:50			