

- 1 Minimum thermal resistance of this insulation layer to achieve 1.30 m²K/W.
- 2 Minimum thermal resistance of this insulation layer to achieve 1.52 m²K/W.

Only when three complementary Energy Saving Trust Enhanced Details are used together, and in conjunction with all other relevant ACDs, can a y-value of 0.04 be used in SAP2005. See Introductory Document for full details.

Suggested construction sequence including site check list ✓

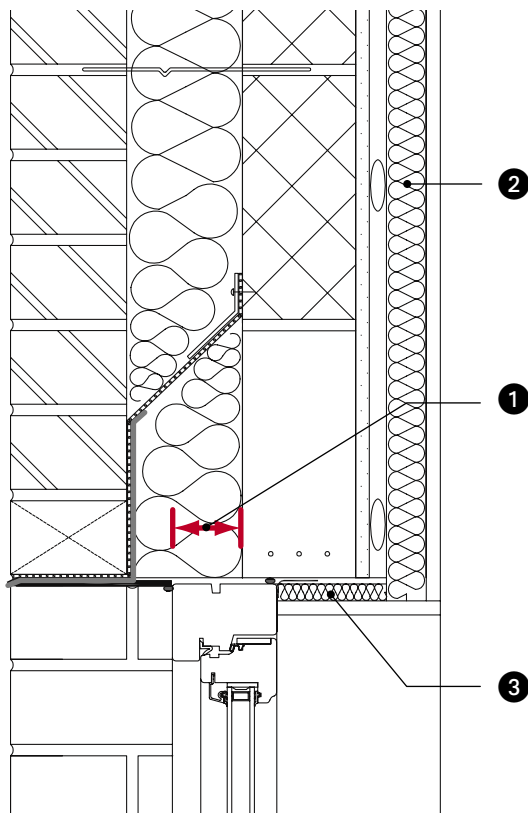
Pack compressible insulation between last truss/joist and gable wall.	<input type="checkbox"/>	T
Fix ceiling air barrier/vapour control layer to underside of trusses/joists with a lap of 300 mm down wall.	<input type="checkbox"/>	A
Fix insulation with minimum thermal resistance of 1.30 m ² K/W to underside of ceiling, with edge tight to air barrier/vapour control layer lapped down wall.*	<input type="checkbox"/>	T
Ensure checklist on Plasterstop Bead Detail PB Par1 has been completed.	<input type="checkbox"/>	A
Fix 50 mm wide (depth dependent on services to be provided) battens at maximum 600 mm centres to underside of ceiling, perpendicular to trusses.	<input type="checkbox"/>	
Erect internal walls with header plate secured to underside of ceiling battens.	<input type="checkbox"/>	
Parge blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
First fix services to wall and underside of ceiling.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m ² K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Pack compressible insulation between ceiling battens to the top of the insulated plasterboard to wall.	<input type="checkbox"/>	T
Place plasterboards to ceiling, and tape joints or provide skim finish.	<input type="checkbox"/>	
Place ceiling insulation between/over trusses/joists and ensure that the full depth of insulation over trusses/joists extends to inner edge of blockwork. N.B. This stage can be completed at any point from * above.	<input type="checkbox"/>	T
Provide mastic seal to all service penetrations.	<input type="checkbox"/>	A

$\Psi = 0.049 \text{ W/mK}$

T: Thermal Performance
A: Air Barrier

This indicative guidance illustrates best practice for design and construction in respect to ensuring thermal performance and air barrier continuity, and must be implemented with due regard to site conditions and all other requirements imposed by Building Regulations.

Site Manager/Supervisor: Site Name: Plot No: Date: / /



- 1 Minimum lap of window/door frame with insulation of 70 mm, or provide a minimum thermal resistance of this lap of 1.75 m²K/W.
- 2 Minimum thermal resistance of this insulation layer to achieve 1.52 m²K/W.
- 3 Minimum thermal resistance of this insulation layer to achieve 0.65 m²K/W.

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Suggested construction sequence including site check list ✓

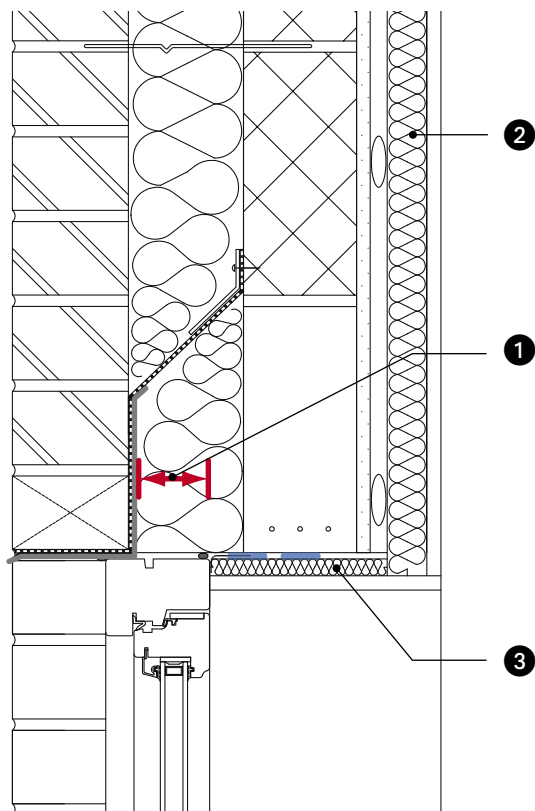
Place rigid/semi rigid insulation into cavity from below up to the underside of the stepped damp proof course/cavity tray. Ensure the insulation will be in contact with window/door frame.	<input type="checkbox"/>	T
Install window/door frame, and provide a mastic seal in gap between frame and lintel/masonry, and place double sided tape over joint.	<input type="checkbox"/>	A
Large blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
Erect internal walls.	<input type="checkbox"/>	
First fix services to wall.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m²K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Fix insulated plasterboard with minimum thermal resistance of 0.65 m²K/W on the underside of lintel hard up to window/door frame.	<input type="checkbox"/>	T
Fit weatherboard to underside of outer leaf hard up to frame and seal joint with mastic. Provide a mastic seal in gap between frame and masonry externally, and plasterboard internally.	<input type="checkbox"/>	A

$\Psi = 0.007 \text{ W/mK}$

T: Thermal Performance
A: Air Barrier

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Site Manager/Supervisor: Site Name: Plot No: Date: / /



- 1 Minimum lap of window/door frame with insulation of 70 mm, or provide a minimum thermal resistance of this lap of 1.75 m²K/W.
- 2 Minimum thermal resistance of this insulation layer to achieve 1.52 m²K/W.
- 3 Minimum thermal resistance of this insulation layer to achieve 0.65 m²K/W.

Only when three complementary Energy Saving Trust Enhanced Details are used together, and in conjunction with all other relevant ACDs, can a ψ -value of 0.04 be used in SAP2005. See Introductory Document for full details.

Suggested construction sequence including site check list ✓

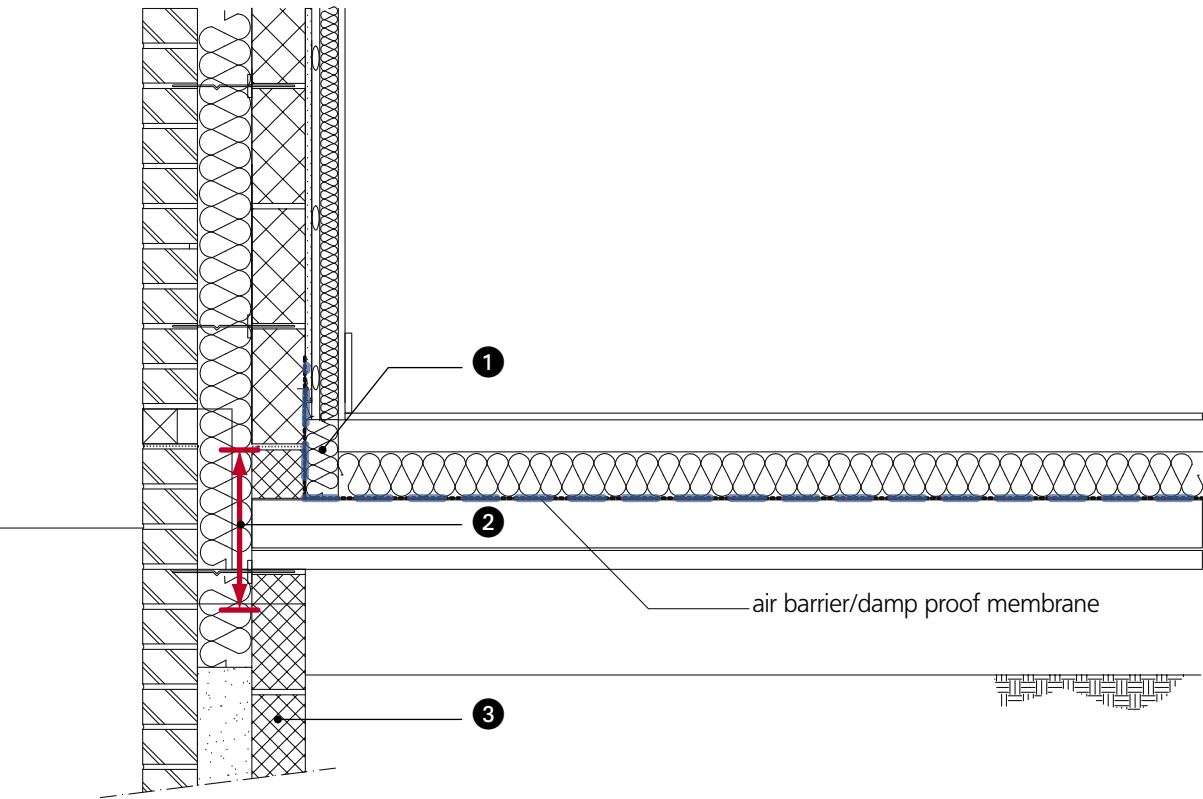
Place rigid/semi rigid insulation into cavity from below up to the underside of the stepped damp proof course/cavity tray. Ensure the insulation will be in contact with window/door frame.	<input type="checkbox"/>	T
Install window/door frame, and place double sided tape to edge of frame internally.	<input type="checkbox"/>	A
Parge blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
Place a width of vapour control membrane lapped to frame and lintel/masonry.	<input type="checkbox"/>	A
Erect internal walls.	<input type="checkbox"/>	
First fix services to wall.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m²K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Fix insulated plasterboard with minimum thermal resistance of 0.65 m²K/W on the underside of lintel, hard up to window/door frame.	<input type="checkbox"/>	T
Provide a mastic seal in gap between frame and masonry externally, and plasterboard internally.	<input type="checkbox"/>	A

$\Psi = 0.007 \text{ W/mK}$

T: Thermal Performance
A: Air Barrier

This indicative guidance illustrates best practice for design and construction in respect to ensuring thermal performance and air barrier continuity, and must be implemented with due regard to site conditions and all other requirements imposed by Building Regulations.

Site Manager/Supervisor: Site Name: Plot No: Date: / /



- 1 Minimum thermal resistance of the perimeter insulation upstand to achieve 3.04 m²K/W.
- 2 Overlap of insulation to be 300 mm minimum.
- 3 Blockwork of maximum 0.19 W/mK dry thermal conductivity.

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Suggested construction sequence including site check list



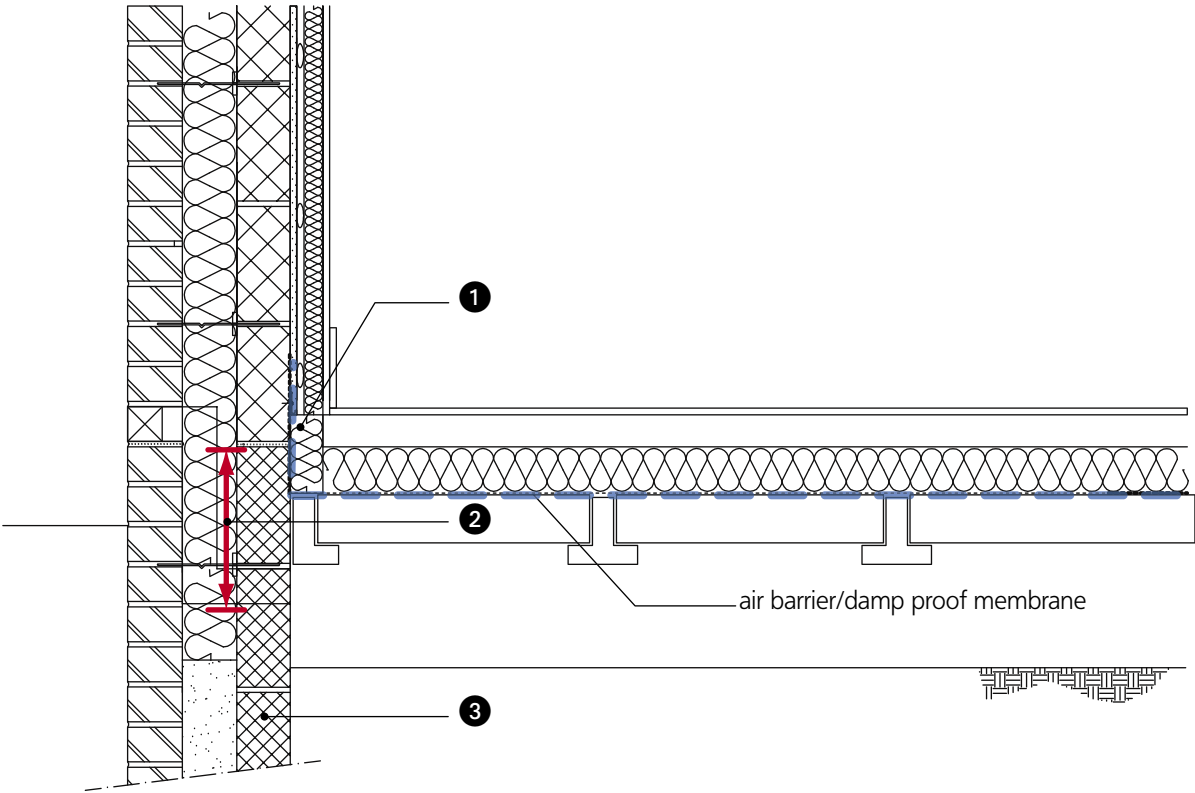
Grout/cement wash surface of block and beam floor to seal joints.	<input type="checkbox"/>	A
Damp proof membrane tail lapped out 450 mm from inner leaf damp proof course as masonry built, lapped over floor. N.B. Damp proof membrane lap must not be above the level of the proposed floor finish.	<input type="checkbox"/>	A
Lay floor damp proof membrane/air barrier over floor and lap up walls by 450 mm and temporarily fix to wall. Any services penetrations through air barrier to be suitably sealed.	<input type="checkbox"/>	A
Fit perimeter upstand insulation with a minimum thermal resistance of 3.04 m ² K/W hard up against wall up to height of screeded finish.	<input type="checkbox"/>	T
Lay floor insulation hard up against perimeter insulation.	<input type="checkbox"/>	T
Screed floor.	<input type="checkbox"/>	
Ensure checklist on Plasterstop Bead Detail PB Par2 has been completed.	<input type="checkbox"/>	A
Parge blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
First fix services to wall.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m ² K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Inject insulating expanded foam between insulated dry-lining and perimeter upstand insulation.	<input type="checkbox"/>	T
Provide mastic seal to all service penetrations.	<input type="checkbox"/>	A

$\Psi = 0.056 \text{ W/mK}$

T: Thermal Performance
A: Air Barrier

This indicative guidance illustrates best practice for design and construction in respect to ensuring thermal performance and air barrier continuity, and must be implemented with due regard to site conditions and all other requirements imposed by Building Regulations.

Site Manager/Supervisor: Site Name: Plot No: Date: / /



- 1 Minimum thermal resistance of the perimeter insulation upstand to achieve 3.04 m²K/W.
- 2 Overlap of insulation to be 300 mm minimum.
- 3 Blockwork of maximum 0.19 W/mK dry thermal conductivity.

Only when three complementary Energy Saving Trust Enhanced Details are used together, and in conjunction with all other relevant ACDs, can a y-value of 0.04 be used in SAP2005. See Introductory Document for full details.

Suggested construction sequence including site check list



Grout/cement wash surface of block and beam floor to seal joints.	<input type="checkbox"/>	A
Damp proof membrane tail lapped out 450 mm from inner leaf damp proof course as masonry built, lapped over floor. N.B. Damp proof membrane lap must not be above the level of the proposed floor finish.	<input type="checkbox"/>	A
Lay floor damp proof membrane/air barrier over floor and lap up walls by 450 mm and temporally fix to wall. Any services penetrations through air barrier to be suitably sealed.	<input type="checkbox"/>	A
Fit perimeter upstand insulation with a minimum thermal resistance of 3.04 m ² K/W hard up against wall up to height of screeded finish.	<input type="checkbox"/>	T
Lay floor insulation hard up against perimeter insulation.	<input type="checkbox"/>	T
Screed floor.	<input type="checkbox"/>	
Ensure checklist on Plasterstop Bead Detail PB Par2 has been completed.	<input type="checkbox"/>	A
Parge blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
First fix services to wall.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m ² K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Inject insulating expanded foam between insulated dry-lining and perimeter upstand insulation.	<input type="checkbox"/>	T
Provide mastic seal to all service penetrations.	<input type="checkbox"/>	A

$\Psi = 0.040 \text{ W/mK}$

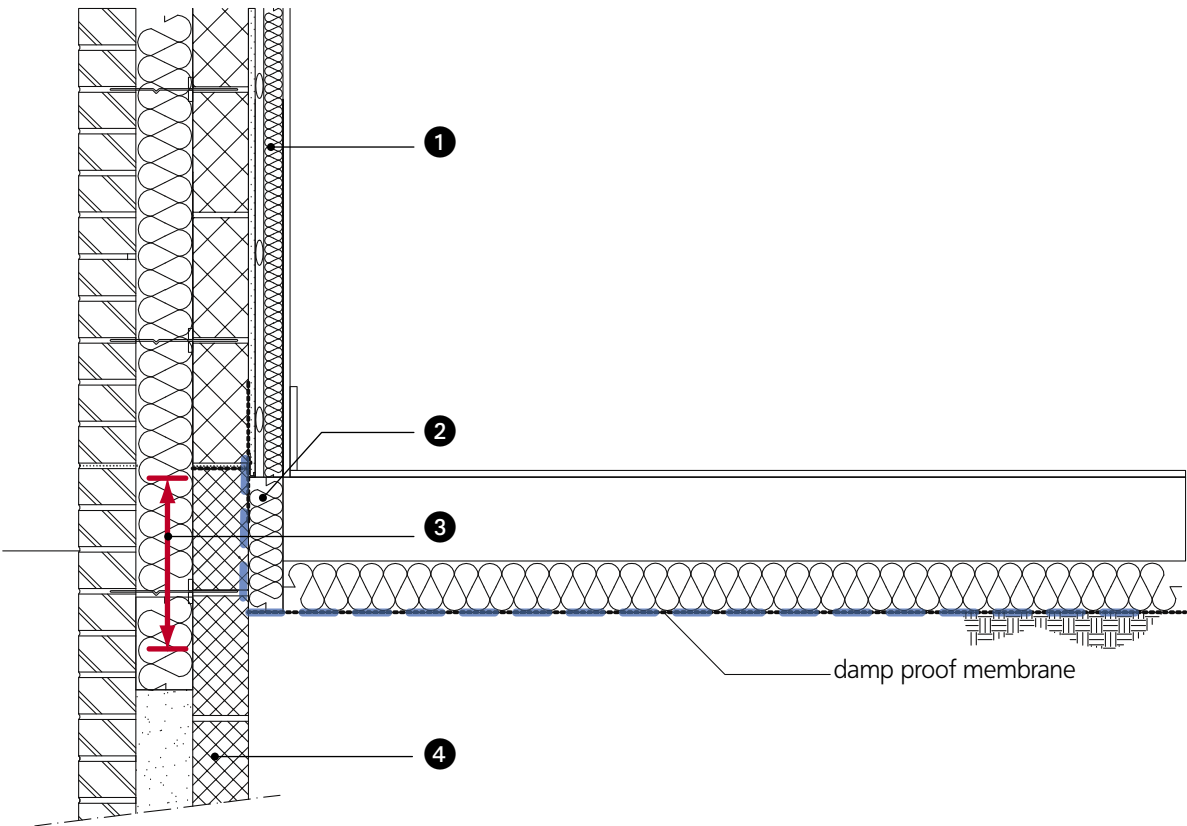
T: Thermal Performance
A: Air Barrier

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Site Manager/Supervisor: Site Name: Plot No: Date: / /



Enhanced Detail MV02-F01 (B)
Use this detail instead of ACD: MII-GF-01



- ❶ Minimum thermal resistance of the insulation layer to achieve 1.52 m²K/W.
- ❷ Minimum thermal resistance of the perimeter insulation upstand to achieve 3.04 m²K/W.
- ❸ Overlap of insulation to be 300 mm minimum.
- ❹ Blockwork of maximum 0.19 W/mK dry thermal conductivity.

Only when three complementary Energy Saving Trust Enhanced Details are used together, and in conjunction with all other relevant ACDs, can a y-value of 0.04 be used in SAP2005. See Introductory Document for full details.

Suggested construction sequence including site check list ✓

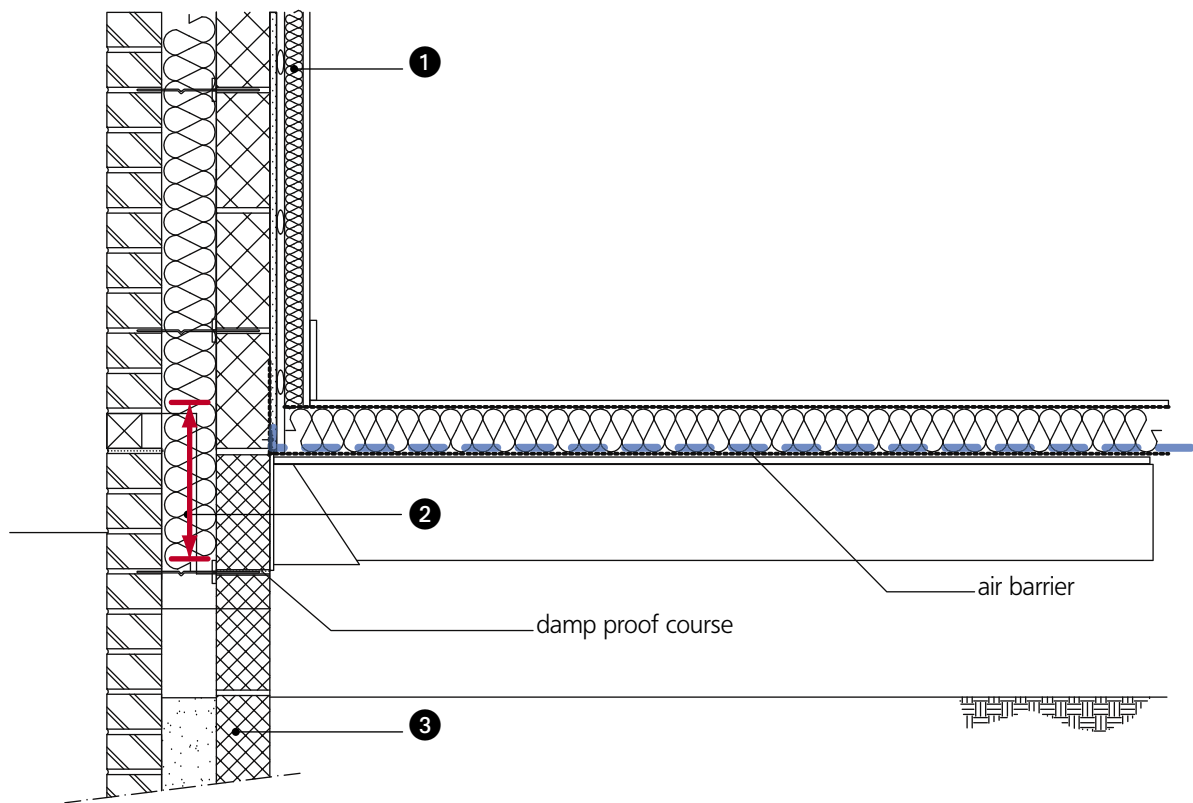
Damp proof membrane tail lapped out 600 mm from inner leaf damp proof course as masonry built, lapped over floor preparation. N.B. Damp proof membrane lap must not be above the level of the proposed floor finish.	<input type="checkbox"/>	A
Lay floor damp proof membrane/air barrier over floor preparation and lap up walls by 450 mm and temporally fix to wall. Any services penetrations through air barrier to be suitably sealed.	<input type="checkbox"/>	A
Fit perimeter upstand insulation with a minimum thermal resistance of 3.04 m ² K/W hard up against wall up to height of floor finish.	<input type="checkbox"/>	T
Lay floor insulation hard up against perimeter insulation.	<input type="checkbox"/>	T
Concrete floor.	<input type="checkbox"/>	
Ensure checklist on Plasterstop Bead Detail PB Par2 has been completed.	<input type="checkbox"/>	A
Parge blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
Erect internal walls.	<input type="checkbox"/>	
Fix services to wall.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m ² K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Inject insulating expanded foam between insulated dry-lining and perimeter upstand insulation.	<input type="checkbox"/>	T
Provide mastic seal to all service penetrations.	<input type="checkbox"/>	A

$\Psi = 0.037 \text{ W/mK}$

T: Thermal Performance
A: Air Barrier

This indicative guidance illustrates best practice for design and construction in respect to ensuring thermal performance and air barrier continuity, and must be implemented with due regard to site conditions and all other requirements imposed by Building Regulations.

Site Manager/Supervisor: Site Name: Plot No: Date: / /



- 1 Minimum thermal resistance of this insulation layer to achieve 1.52 m²K/W.
- 2 Overlap of insulation to be 300 mm minimum.
- 3 Blockwork of maximum 0.19 W/mK dry thermal conductivity.

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Suggested construction sequence including site check list ✓

Provide insulation between floor joists in location of proposed internal stud walls.	<input type="checkbox"/>	T
Fix lower floor sheeting/decking.	<input type="checkbox"/>	
Lap out 450 mm tail of air barrier over lower floor sheeting and lap up walls by 150 mm.	<input type="checkbox"/>	A
Ensure checklist on Plasterstop Bead Detail PB Par2 has been completed.	<input type="checkbox"/>	A
Parge blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
Lay air barrier over lower floor sheeting and lap/tape to air barrier tail. Any services penetrations through air barrier to be suitably sealed.	<input type="checkbox"/>	A
Erect internal walls.	<input type="checkbox"/>	
Lay floor insulation hard up against wall.	<input type="checkbox"/>	T
Lay upper floor decking.	<input type="checkbox"/>	
First fix services to wall.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m²K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Inject insulating expanded foam between insulated dry-lining and floor decking.	<input type="checkbox"/>	T
Provide mastic seal to all service penetrations.	<input type="checkbox"/>	A

$\Psi = 0.032 \text{ W/mK}$

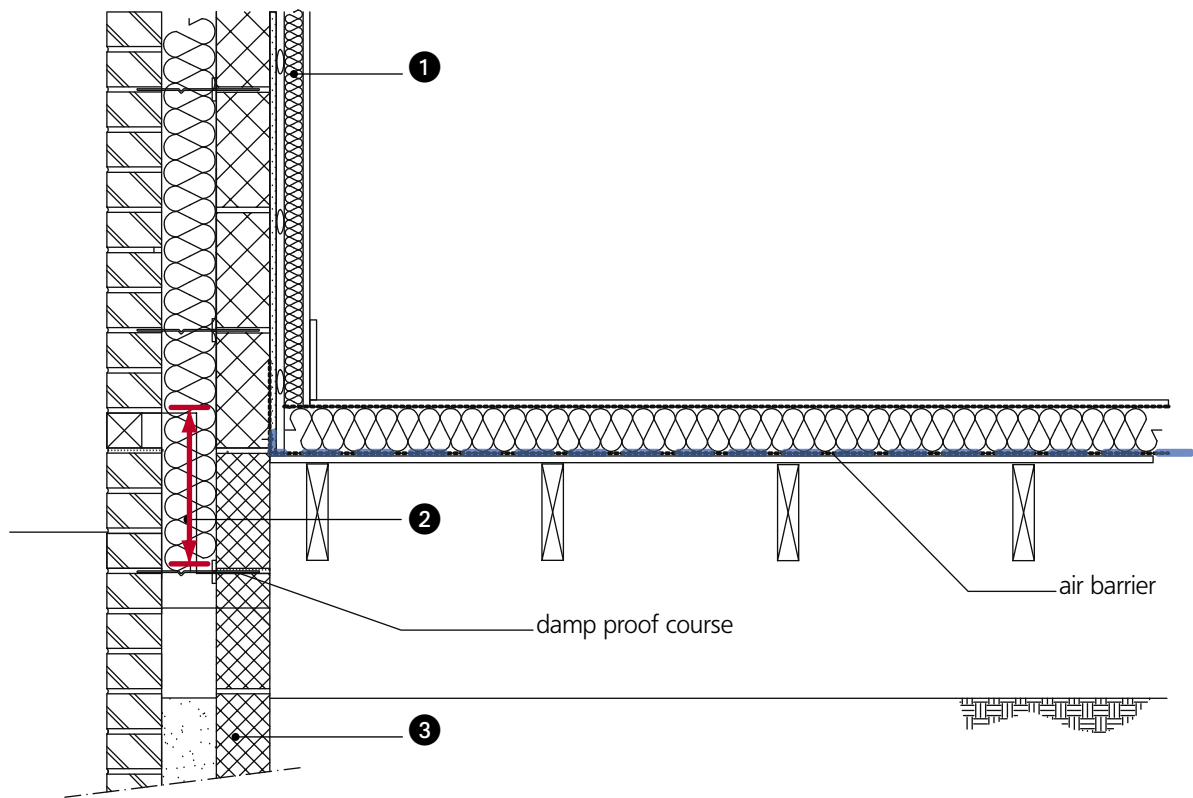
T: Thermal Performance
A: Air Barrier

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Site Manager/Supervisor: Site Name: Plot No: Date: / /



Enhanced Detail MV02-F03 (A)
Use this detail instead of ACD: MII-GF-03



- 1 Minimum thermal resistance of this insulation layer to achieve 1.52 m²K/W.
- 2 Overlap of insulation to be 300 mm minimum.
- 3 Blockwork of maximum 0.19 W/mK dry thermal conductivity.

Only when three complementary Energy Saving Trust Enhanced Details are used together, and in conjunction with all other relevant ACDs, can a y-value of 0.04 be used in SAP2005. See Introductory Document for full details.

Suggested construction sequence including site check list



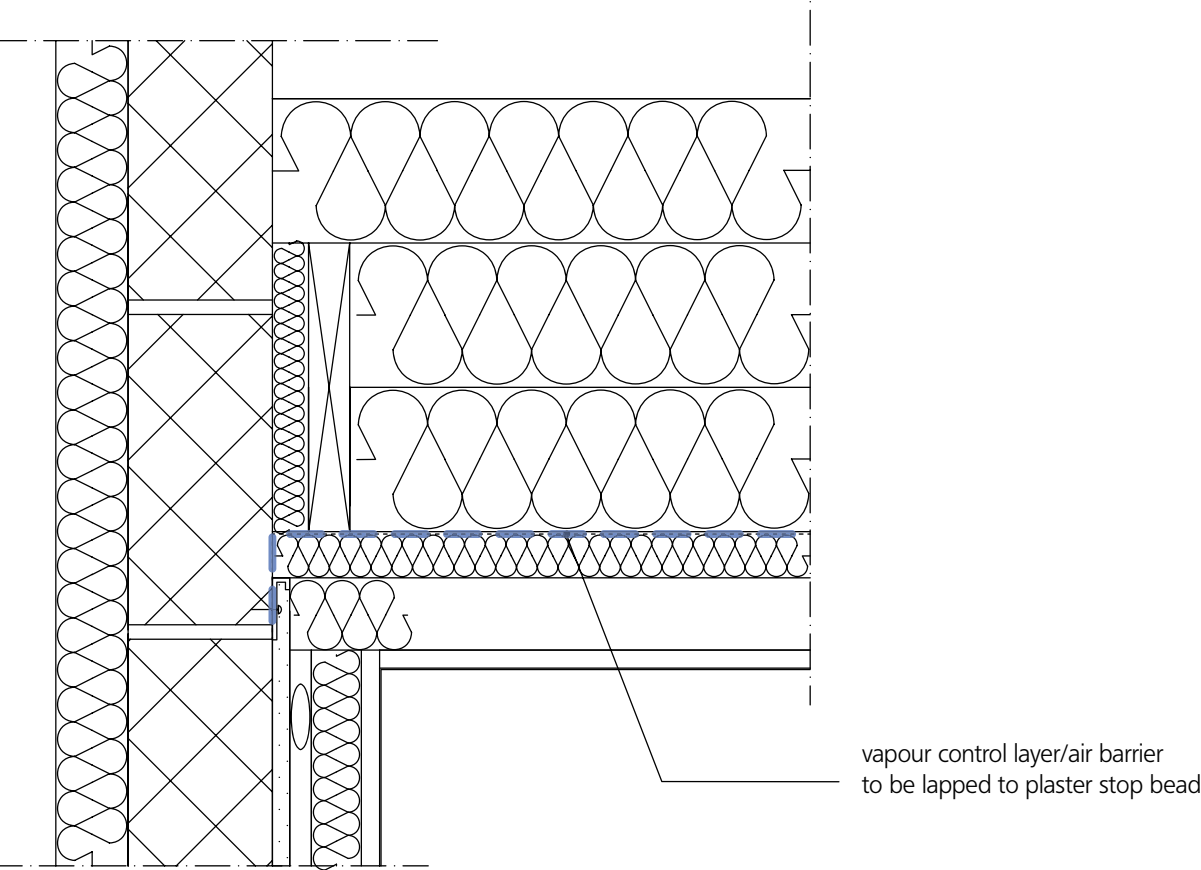
Provide insulation between floor joists in location of proposed internal stud walls.	<input type="checkbox"/>	T
Fix lower floor sheeting/decking.	<input type="checkbox"/>	
Lap out 450 mm tail of air barrier over lower floor sheeting and lap up walls by 150 mm.	<input type="checkbox"/>	A
Ensure checklist on Plasterstop Bead Detail PB Par2 has been completed.	<input type="checkbox"/>	A
Parge blockwork to provide air barrier to wall.	<input type="checkbox"/>	A
Lay air barrier over lower floor sheeting and lap/tape to air barrier tail. Any services penetrations through air barrier to be suitably sealed.	<input type="checkbox"/>	A
Erect internal walls.	<input type="checkbox"/>	
Lay floor insulation hard up against wall.	<input type="checkbox"/>	T
Lay upper floor decking.	<input type="checkbox"/>	
First fix services to wall.	<input type="checkbox"/>	
Fix insulated plasterboard with minimum thermal resistance of 1.52 m ² K/W on continuous horizontal dabs (at maximum 600 mm vertical centres) and vertical edge dabs.	<input type="checkbox"/>	T
Inject insulating expanded foam between insulated dry-lining and floor decking.	<input type="checkbox"/>	T
Provide mastic seal to all service penetrations.	<input type="checkbox"/>	A

$$\Psi = 0.032 \text{ W/mK}$$

T: Thermal Performance
A: Air Barrier

This indicative guidance illustrates best practice for design and construction in respect to ensuring thermal performance and air barrier continuity, and must be implemented with due regard to site conditions and all other requirements imposed by Building Regulations.

Site Manager/Supervisor: Site Name: Plot No: Date: / /



Suggested construction sequence including site check list ✓

Ensure insulation below ceiling is installed tight up against edge of wall/air barrier.	<input type="checkbox"/>	T
Fix plaster stop bead to wall tight up against ceiling insulation.	<input type="checkbox"/>	A
Trim off any additional air barrier below plasterstop bead.	<input type="checkbox"/>	A

Alternate check list for foil backed insulation. ✓

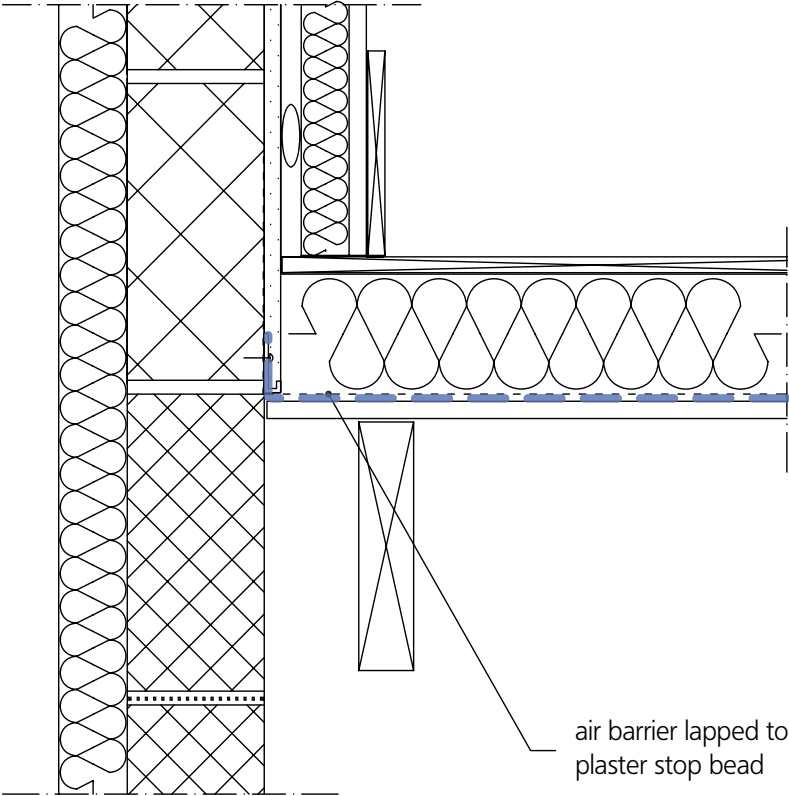
Ensure insulation below ceiling is installed tight up against edge of wall.	<input type="checkbox"/>	T
Tape a 150 mm width of air barrier membrane to ceiling insulation to lap down wall.	<input type="checkbox"/>	A
Fix plaster stop bead to wall tight up against ceiling insulation.	<input type="checkbox"/>	A
Trim off any additional air barrier below plasterstop bead.	<input type="checkbox"/>	A

T: Thermal Performance **A**: Air Barrier

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Site Manager/Supervisor: Site Name: Plot No: Date: / /



Site check list – floor type F03 (as shown) ✓

- | | | |
|--|--------------------------|----------|
| Fix plasterstop bead to wall ensuring it is hard down onto air barrier lapped over lower floor sheeting. | <input type="checkbox"/> | A |
| Trim off any additional air barrier above plasterstop bead. | <input type="checkbox"/> | A |

Alternate site check list – floor types F01 and 02 ✓

- | | | |
|--|--------------------------|----------|
| Fix plasterstop bead to wall ensuring it is hard down onto floor perimeter insulation. | <input type="checkbox"/> | A |
| Trim off any additional air barrier above plasterstop bead. | <input type="checkbox"/> | A |

A: Air Barrier

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Site Manager/Supervisor: Site Name: Plot No: Date: / /