

- 1 Thermal conductivity of blockwork adjacent to ceiling insulation must provide a minimum thermal resistance of 1.74m<sup>2</sup>K/W over the distance shown by the arrow.
- 2 Minimum thermal resistance of this insulation layer to achieve 1.30 m<sup>2</sup>K/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** ✓

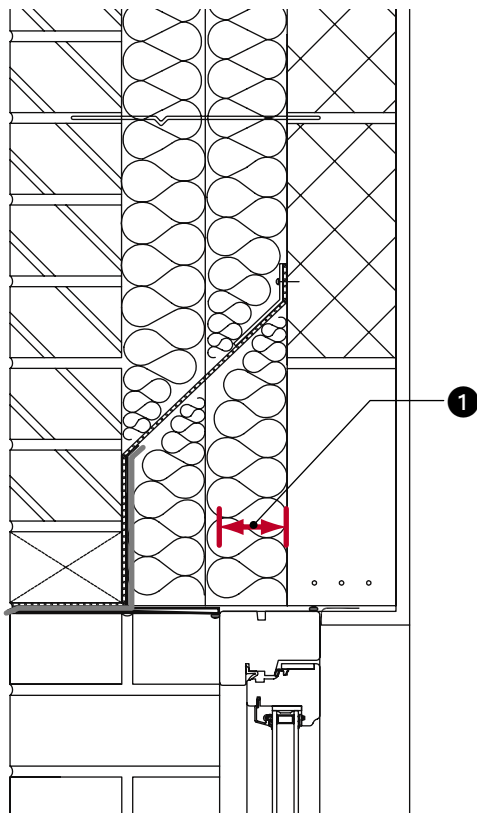
Pack compressible insulation between last truss/joist and gable wall.	<input type="checkbox"/>	T
Fix ceiling air barrier/vapour control layer to underside of trusses/joists with a lap of 300 mm down wall.	<input type="checkbox"/>	A
Fix insulation with minimum thermal resistance of 1.30m <sup>2</sup> 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 Pla1 has been completed.	<input type="checkbox"/>	A
First fix services to wall (and underside of ceiling where necessary).	<input type="checkbox"/>	
Plaster blockwork to provide Air Barrier to wall.	<input type="checkbox"/>	A
Fix 50 mm wide (depth dependent on services to be provided) battens at maximum 600 mm centres perpendicular to trusses.	<input type="checkbox"/>	
Erect internal walls with header plate secured to underside of ceiling battens.	<input type="checkbox"/>	
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"/>	

$\Psi = 0.057 \text{ W/mK}$

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.

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 ✓

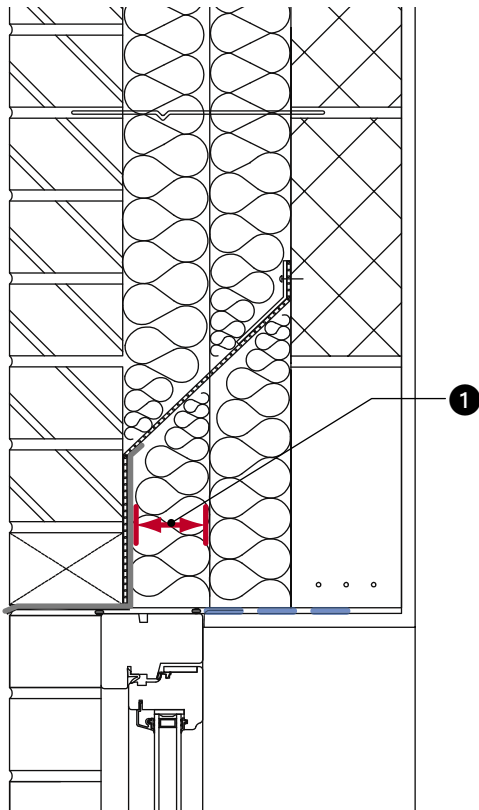
Place rigid/semi rigid insulation into cavity from below up to the underside of the stepped damp proof course/cavity tray. Ensure the insulation will be in contact with window/door frame.	<input type="checkbox"/>	T
Install window/door frame, and provide a mastic seal in gap between frame and lintel/masonry, and place double sided tape over joint.	<input type="checkbox"/>	A
Fix plasterstop bead to masonry, fitted hard up against frame.	<input type="checkbox"/>	
Fix services to wall.	<input type="checkbox"/>	
Plaster blockwork/reveals to provide air barrier to walls.	<input type="checkbox"/>	A
Erect internal walls.	<input type="checkbox"/>	
Fit weatherboard to underside of outer leaf hard up to frame and seal joint with mastic.	<input type="checkbox"/>	A

$\Psi = 0.010 \text{ W/mK}$

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 m<sup>2</sup>K/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 ✓

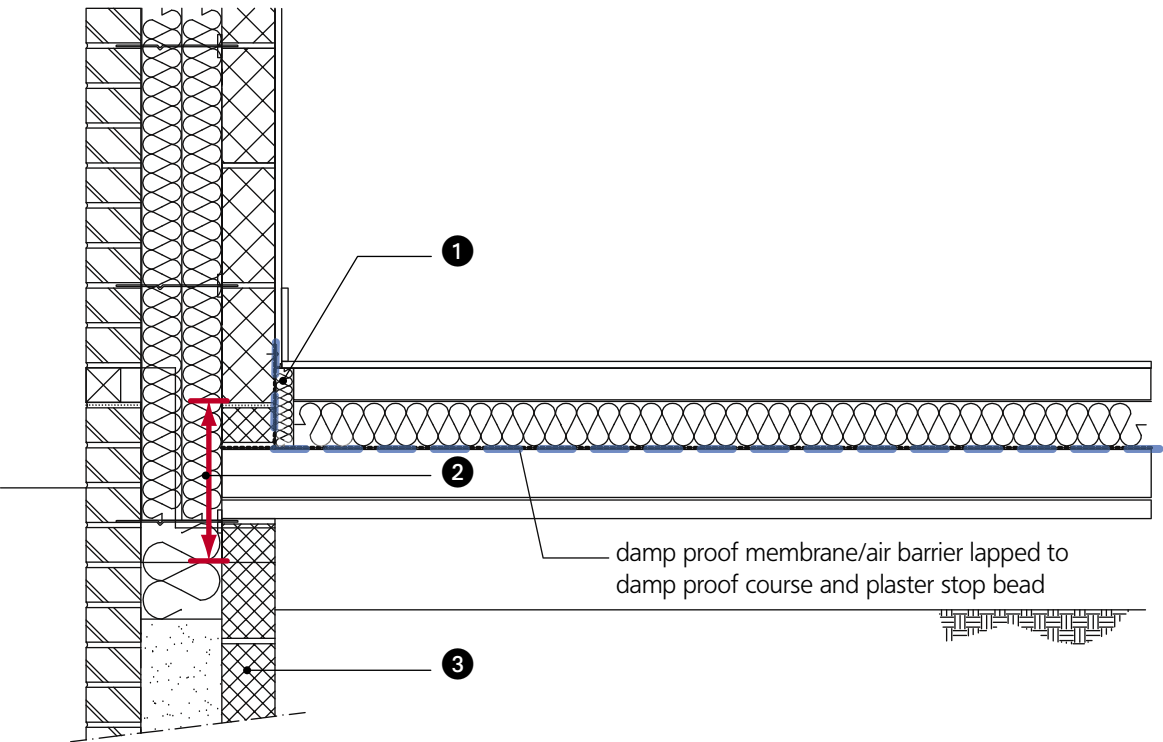
Place rigid/semi rigid insulation into cavity from below up to the underside of the stepped damp proof course/cavity tray. Ensure the insulation will be in contact with window/door frame.	<input type="checkbox"/>	T
Install window/door frame, and place double sided tape to edge of frame internally.	<input type="checkbox"/>	A
Place a width of vapour control membrane lapped to frame and lintel/masonry.	<input type="checkbox"/>	A
Either place plasterboard (or expanded metal if to be plastered) to underside of lintel.	<input type="checkbox"/>	A
Fix services to wall.	<input type="checkbox"/>	
Plaster blockwork/reveals to provide air barrier to walls.	<input type="checkbox"/>	A
Erect internal walls.	<input type="checkbox"/>	
Provide a mastic seal in gap between frame and masonry externally, and plasterboard internally (if not plastered).	<input type="checkbox"/>	A

$\Psi = 0.010 \text{ W/mK}$

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 1.52 m<sup>2</sup>K/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.

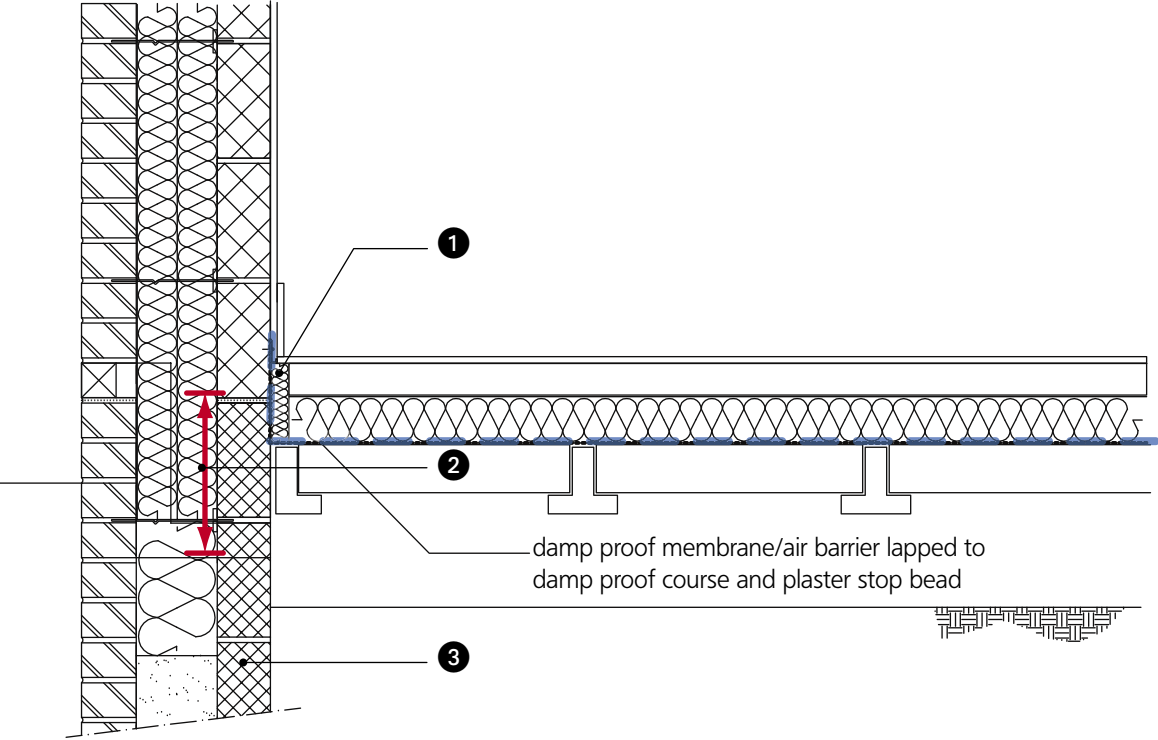
**Suggested construction sequence including site check list** ✓

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 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 1.52 m <sup>2</sup> 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 Pla2 has been completed.	<input type="checkbox"/>	A
Fix services to wall.	<input type="checkbox"/>	
Plaster blockwork to provide air barrier to wall.	<input type="checkbox"/>	A

$\Psi = 0.081 \text{ W/mK}$

T: Thermal Performance  
A: Air Barrier

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



- 1 Minimum thermal resistance of the perimeter insulation upstand to achieve 1.52 m<sup>2</sup>K/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 ✓

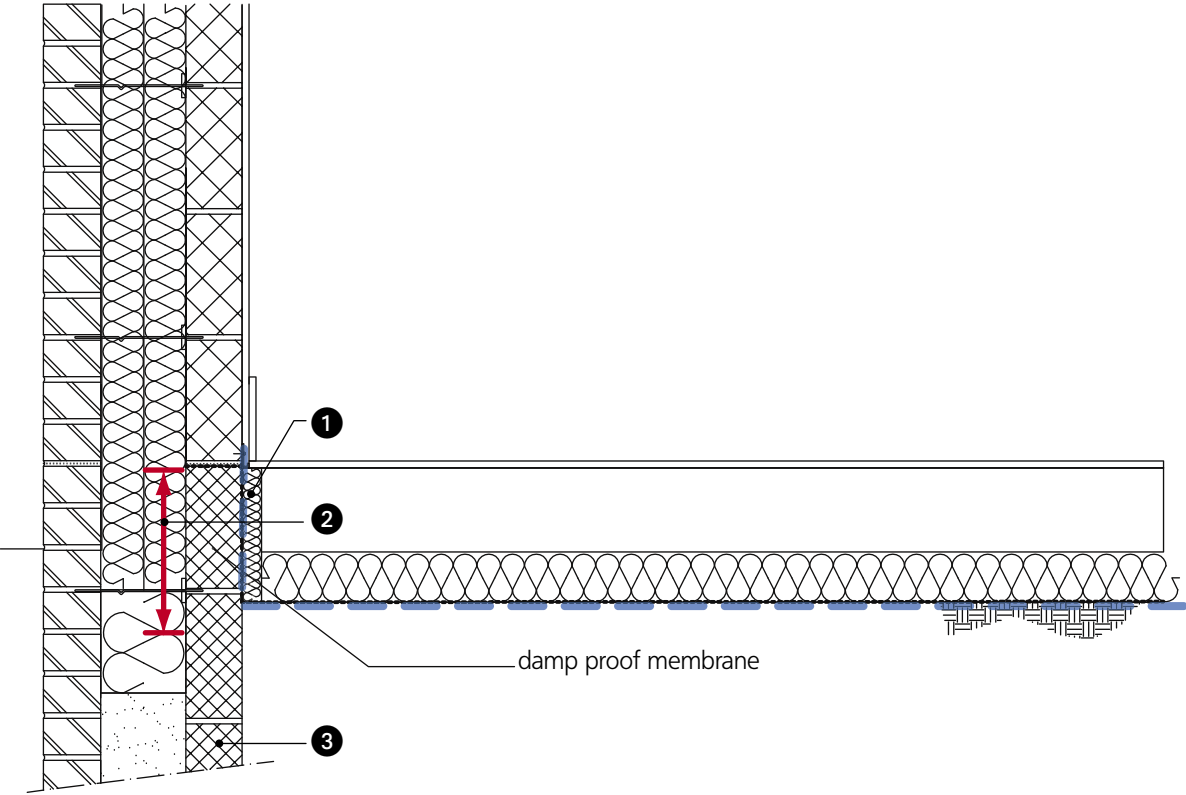
Grout/cement wash surface of block and beam floor to seal joints.	<input type="checkbox"/>	A
Damp proof membrane tail lapped out 450 mm from inner leaf damp proof course as masonry built, lapped over floor. N.B. Damp proof membrane lap must not be above the level of the proposed floor finish.	<input 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 1.52 m <sup>2</sup> 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 Pla2 has been completed.	<input type="checkbox"/>	A
Fix services to wall.	<input type="checkbox"/>	
Plaster blockwork to provide air barrier to wall.	<input type="checkbox"/>	A

$\Psi = 0.067 \text{ W/mK}$

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 1.52 m<sup>2</sup>K/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



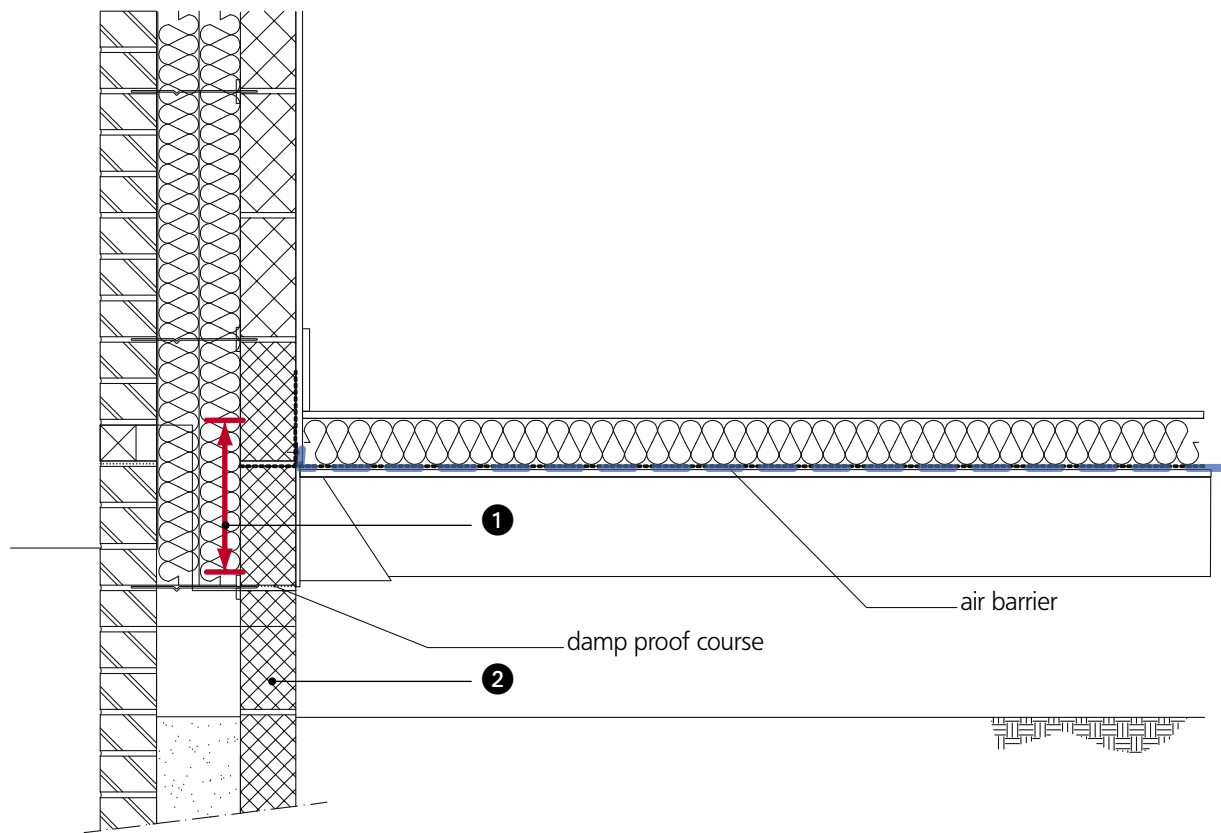
Damp proof membrane tail lapped out 600 mm from inner leaf damp proof course as masonry built, lapped over floor preparation. N.B. Damp proof membrane lap must not be above the level of the proposed floor finish.	<input type="checkbox"/>	A
Lay floor damp proof membrane/air barrier over floor preparation 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 1.52 m <sup>2</sup> 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 Pla2 has been completed.	<input type="checkbox"/>	A
Fix services to wall.	<input type="checkbox"/>	
Plaster blockwork to provide air barrier to wall.	<input type="checkbox"/>	A

$\Psi = 0.075 \text{ W/mK}$

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 Overlap of insulation to be 300 mm minimum.
- 2 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 Pla2 has been completed.	<input type="checkbox"/>	A
Fix services to wall.	<input type="checkbox"/>	
Plaster 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"/>	

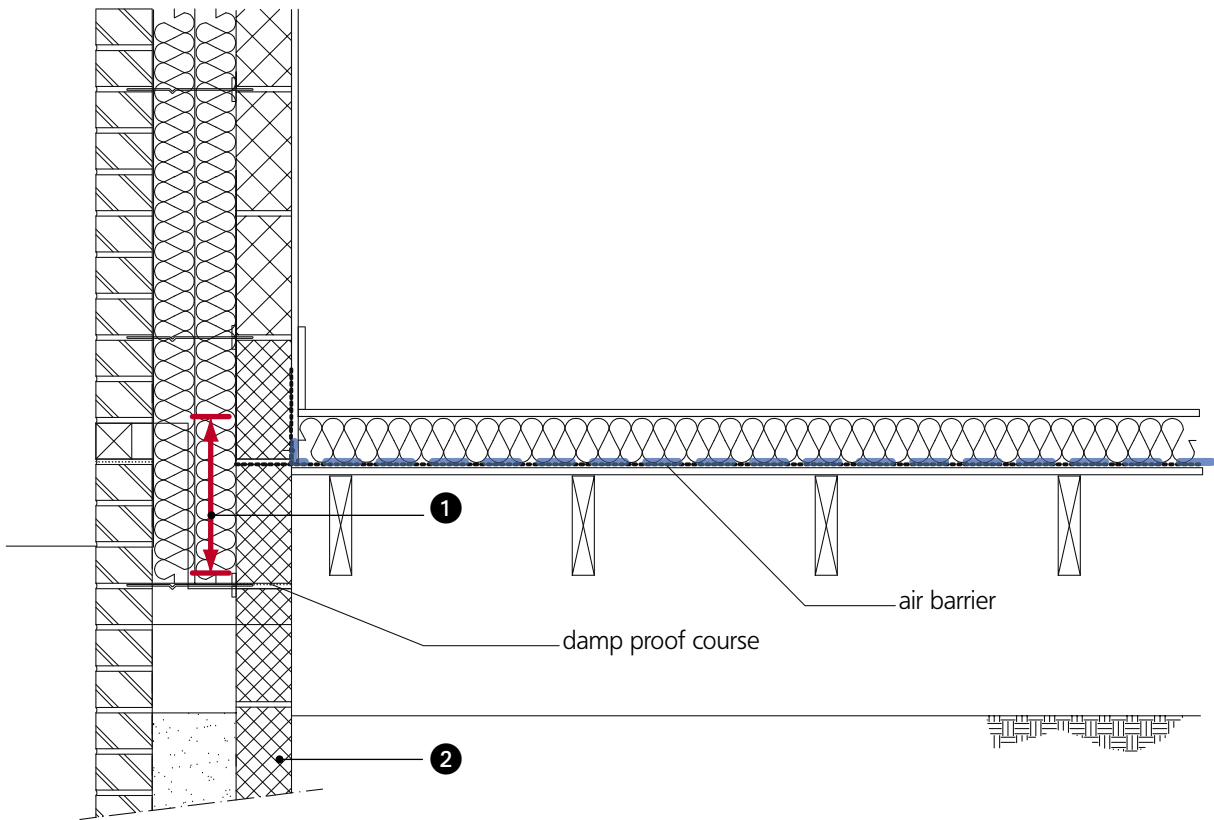
$\Psi = 0.048 \text{ W/mK}$

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 Overlap of insulation to be 300 mm minimum.
- 2 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 Pla2 has been completed.	<input type="checkbox"/>	A
Fix services to wall.	<input type="checkbox"/>	
Plaster 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"/>	

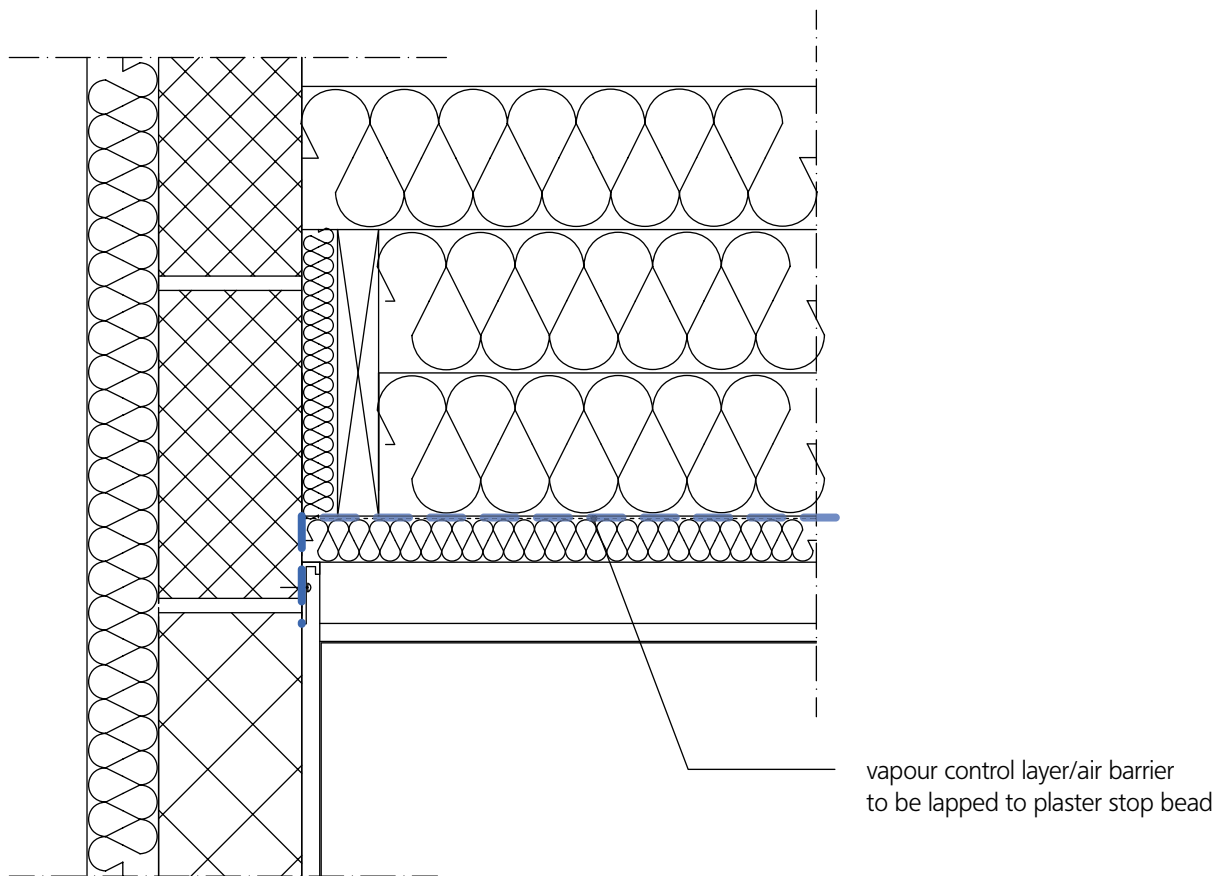
$\Psi = 0.048 \text{ W/mK}$

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

**Alternate check list for foil backed insulation.** ✓

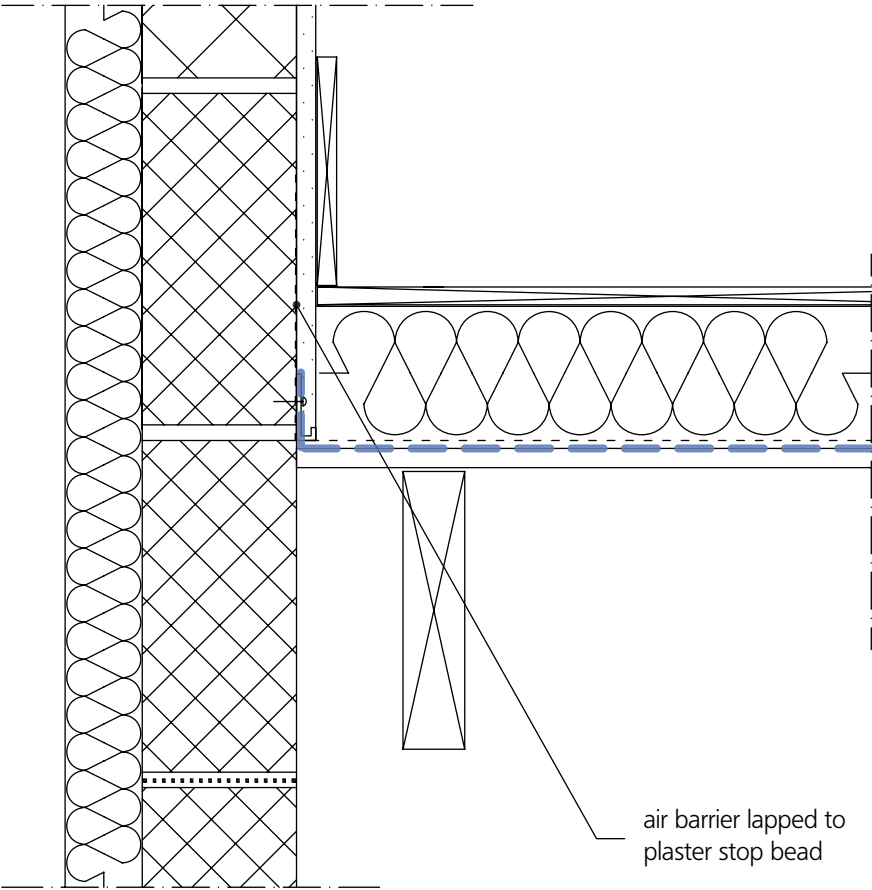
Ensure insulation below ceiling is installed tight up against edge of wall.	<input type="checkbox"/>	<b>T</b>
Tape a 150 mm width of air barrier membrane to ceiling insulation to lap down wall.	<input type="checkbox"/>	<b>A</b>
Fix plaster stop bead to wall tight up against ceiling insulation.	<input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

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

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.

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:    /    /



**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"/> | <b>A</b> |
| Trim off any additional air barrier above plasterstop bead.  | <input type="checkbox"/> | <b>A</b> |

**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"/> | <b>A</b> |
| Trim off any additional air barrier above plasterstop bead.                            | <input type="checkbox"/> | <b>A</b> |

**A**: Air Barrier

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.

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:    /    /



**Plasterstop Bead Detail – PB Pla2**  
This detail to be used in conjunction with MV01 wall types