

ACCEPTABLE SILL DETAIL (Full or partial fill) – Dec 2020 & March 2021 amendments



THERMAL PERFORMANCE

Ensure partial fill insulation is secured firmly against inner leaf of cavity wall.

Provide a short sill which sits on the outer leaf and extends into the cavity by a maximum average of 50mm

Provide fire resisting cavity barrier¹ (below sill board) with 100mm PIR insulation behind the sill where cavity is 150mm (50mm PIR where cavity is 100mm).

CONSTRUCTION OF WALL

100mm rendered block or brick outer leaf, 100 to 150mm cavity either pump filled with insulation ($\lambda = 0.033$) or 100mm to 50mm PIR/PUR partial fill insulation maintaining a 50mm air gap between partial fill insulation and external leaf

For use up to a U-Value of 0.29 to 0.21w/m²K

Tested to BRE IP 1/06: Complying with checklist qualifies builder to claim a Psi value equivalent to the accredited detail from Table K1 of appendix K of SAP 2009

^{*1} When using partial fill, or combustible insulation, diagram 4.5 of TBE – 2012 requires a cavity barrier around openings. (See item 10 of table 4.6), which is to achieve 30minute integrity and 15minute insulation (see paragraph 4.38 of TBE-2012), which also lists alternative cavity barriers.

GENERAL NOTES

Keep cavities clean of mortar droppings and other debris during construction.

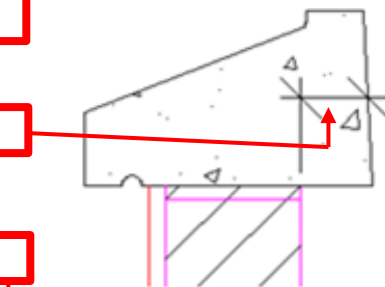
Ensure a weather drip and sealant to the window frame sill junction.

SITE ADDRESS

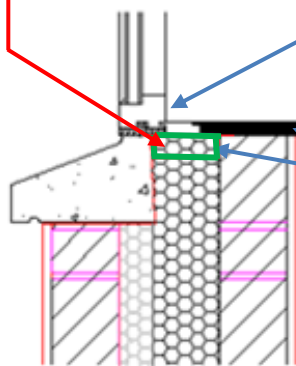
SITE MANAGER

DATE

CHECKLIST
TICK ALL



Enlarged Detail



Details not to scale

CHECKLIST
TICK ALL

AIR BARRIER - CONTINUITY

Seal all penetrations through air barrier with a flexible sealant

Apply flexible sealant to junctions between plaster/plasterboard and sill board, and between sill board and window frame

Ensure air barrier continuity between the window and the wall air barrier

If forming the wall air barrier with a block inner leaf or with scratch coat on blockwork, insert a flexible sealant between the cavity closure and the block wall.

CHECKLIST
TICK ONE

AIR BARRIER - OPTIONS

Masonry inner leaf with wet-finish plaster, or

Masonry inner leaf with scratch coat and finished with plasterboard, or

Inner leaf with plasterboard on dabs, with continuous ribbon of adhesive tape around all openings, along top and bottom of wall, and at internal and external corners, or

Airtightness membrane and tape

ACCEPTABLE JAMB DETAIL (Full Fill) – Dec 2019 & March 2021 amendments



THERMAL PERFORMANCE

100 to 150mm cavity filled with a proprietary pumped insulation ($\lambda = 0.033$).

Provide a minimum of 40mm PIR insulation with vertical dpc to the jamb.

Provide a vertical cavity barrier¹. Alternatively cavity barrier placed between frame and jamb

Construction of wall

100mm rendered block or brick outer leaf, 100 to 150mm cavity pump filled with proprietary cavity wall insulation ($\lambda = 0.033$).

100mm concrete block inner leaf ($\lambda = 1.15$).

For use with a U-Value of 0.29 - 0.21w/m²K

Tested to BRE IP 1/06: Compliance with this detail and checklist qualifies the builder to claim a Psi (Ψ) value equivalent to the accredited detail from Table K1 of appendix K of SAP – 2009

**¹ Diagram 4.5 of TBE – 2012 requires a cavity barrier around openings. (See item 10 of table 4.6), which is to achieve 30minute integrity and 15minute insulation (see paragraph 4.38 of TBE-2012), which also lists alternative cavity barriers.*

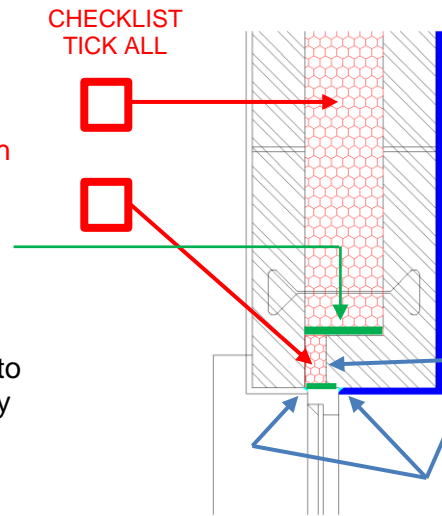
GENERAL NOTES

Keep the cavities clean of mortar droppings and other debris during construction

SITE ADDRESS

SITE MANAGER

DATE



CHECKLIST
TICK ALL



CHECKLIST
TICK ALL



CHECKLIST
TICK ONE



AIR BARRIER - CONTINUITY

Seal all penetrations through air barrier with a flexible sealant

Apply flexible sealant to all interfaces between internal air barrier and window / door frame member

Install a flexible sealant between the insulation and blockwork

AIR BARRIER - OPTIONS

Masonry inner leaf with wet-finish plaster, or

Masonry inner leaf with scratch coat, and finished with plasterboard, or

Inner leaf with plasterboard on dabs, with continuous ribbon of adhesive tape around all openings, along top and bottom of wall, and at internal and external corners, or

Airtightness membrane and tape

Detail not to scale

ACCEPTABLE JAMB DETAIL (Partial fill) – Dec 2019 & March 2021 amendments

Thermal Performance

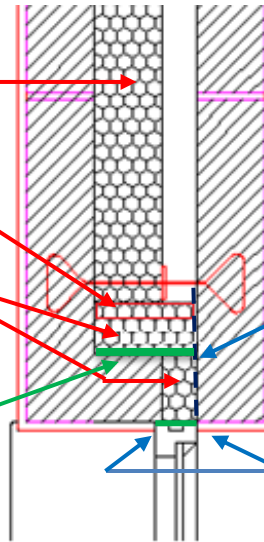
100mm partial fill PIR to a 150mm cavity (or 50mm PIR to a 100mm cavity)

Where required*1 provide a fire resisting cavity barrier

Insert 50mm vertical PIR/PUR insulation dressed around jamb with vertical dpc to outer leaf.

**1 Diagram 4.5 of TBE – 2012 requires a cavity barrier around openings. (See item 10 of table 4.6), which is to achieve 30minute integrity and 15minute insulation (see paragraph 4.38 of TBE-2012), which also lists alternative cavity barriers. Some PIR/PUR insulation may achieve the required fire resistance – see manufacturer's tests. Alternatively cavity barrier placed between frame and jamb.*

CHECKLIST
Tick All



Detail not to scale

CHECKLIST
Tick All

Air Barrier – Continuity



Seal all penetrations through the air barrier using a flexible sealant



Install a flexible sealant between the insulation and blockwork



Apply a flexible sealant to all interfaces between internal air barrier and window / door frame member.

Wall Construction.

100mm rendered block or brick outer leaf, 100mm to 50mm PIR/PUR partial fill insulation maintaining a 50mm air gap between partial fill insulation and external leaf.

For use with a U-Value of 0.28 to 0.18w/m²K

Tested to BRE IP 1/06: Complying with checklists qualifies the builder to claim a Psi value equivalent to the accredited detail from Table K1 of appendix K of SAP-2009

General Notes:

Keep cavities clean of mortar droppings or other debris during construction.

SITE ADDRESS

SITE MANAGER

DATE

OPTIONS
Tick One

Air Barrier – Options



Masonry inner leaf with wet-finish plaster, or



Masonry inner leaf with scratch coat, and finished with plasterboard. Or



Inner leaf with plasterboard on dabs, with continuous ribbon of adhesive taped around all openings, along top and bottom of walls and at internal and external corners, or



Air tightness membrane and tape

ACCEPTABLE HEAD DETAIL (Full or partial fill) March 2021 amendment

THERMAL PERFORMANCE

Ensure partial fill insulation is secured firmly against inner leaf of cavity wall

Space below stepped dpc to be filled with compacted mineral wool slab to ensure continuity of insulation. Cavity closure, if required to aid plastering of opening.

Provide a fire resisting cavity barrier¹.

**1Diagram 4.5 of TBE – 2012 requires a cavity barrier around openings. (See item 10 of table 4.6), which is to achieve 30minute integrity and 15minute insulation (see paragraph 4.38 of TBE-2012), which also lists alternative cavity barriers.*

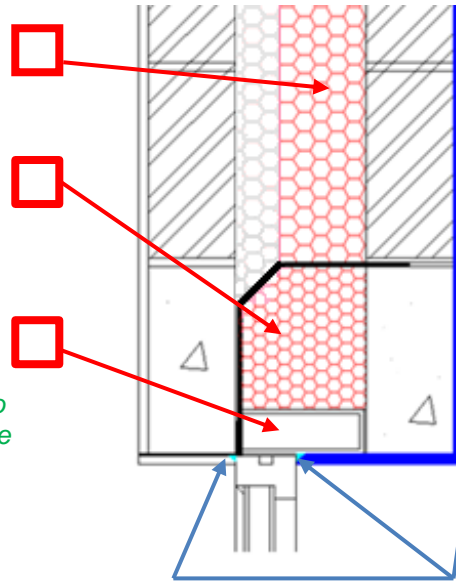
Construction of wall

100mm brick or rendered block outer leaf, 100 to 150mm cavity either pump filled with a proprietary insulation ($\lambda = 0.033$) or partial fill PIR/PUR insulation maintaining a 50mm air gap between partial fill insulation and external leaf. 100mm concrete block inner leaf

For use with a U-Value of 0.29 - 0.21w/m²K

Tested to BRE IP 1/06: Compliance with checklist qualifies builder to claim a Psi (Ψ) value equivalent to the accredited detail from Table K1 of appendix K of SAP - 2009

CHECKLIST
TICK ALL



Detail not to scale

CHECKLIST
TICK ALL

AIR BARRIER - CONTINUITY

- Seal all penetrations through air barrier with a flexible sealant
- Apply flexible sealant to all interfaces between internal air barrier and window / door frame member

AIR BARRIER - OPTIONS

CHECKLIST
TICK ONE

- Masonry inner leaf with wet-finish plaster, or
- Masonry inner leaf with scratch coat, and finished with plasterboard, or
- Inner leaf with plasterboard on dabs, with continuous ribbon of adhesive tape around all openings, along top and bottom of wall, and at internal and external corners, or
- Airtightness membrane and tape

GENERAL NOTES

Keep cavities clean of mortar droppings and other debris during construction.

SITE ADDRESS

SITE MANAGER

DATE