Telescopic underfloor vent

Tough, adjustable ventilator for ground floors

Use
• To provide ventilation below suspended ground floors

Features and benefits
• Telescopic and adjustable for a step of 3, 4 or 5 brick courses
• Equivalent of 6000mm² per unit
• Special grille included to prevent entry of vermin
• Durable, robust and totally resistant to decay

Quality
• Satisfies all NHBC requirements
• Manufactured to BS EN ISO 9001 : 2000
• Complies with all relevant Building Regulations
• Meets all relevant British Standards

Material and colour choice
• Manufactured by injection moulding in polypropylene
• Available in black only in packs of 20

Products in the system
• 1201 telescopic underfloor ventilator
• Matching airbrick and a range of accessories – see following sections

Telescopic gas vent outlets (1201+1201AB+1206+GVL900)
The combined units will allow ventilation outlets to either a sub floor void or via a range of adaptors to a venting layer and allow the provision of a minimum of one complete volume change per 24 hours as required by the NHBC. The Timloc vent units will achieve an airflow rate of 4.85L/sec (17m³/hr) or equal to an equivalent area of 6000mm². NB. All airflow testing has been independently tested by the BRE to BS EN 13141-1.

Installation advice
• Always use in conjunction with a Timloc airbrick
• The airbrick and upper front opening of the telescopic underfloor ventilator must be positioned above the finished external ground level - usually at the same level as the ground level DPC
• The lower rear opening of the product must project down to the level of the underfloor void and must not be obstructed by the floor construction. A vertical extension sleeve is available to fit with this product if the standard 5 course step is not adequate
• Building Regulations require a free airflow below suspended ground floors of at least 1500mm² per metre run of wall. This can be achieved by spacing the ventilators at 4m centres, however, such a wide spacing is not recommended as stagnant air pockets could form in the underfloor void. Timloc recommend a spacing of not more than 2m centres
• The NHBC recommend that underfloor ventilators are spaced at a maximum of 2m centres, with ventilators also positioned not more than 450mm from the ends of the wall
• As a minimum requirement ventilators should be positioned down two opposite sides of the building so as to create a cross flow ventilation action. It is good practice to position ventilators around the full perimeter of the building, particularly with complex building designs
• If the underfloor void is separated by dividing walls, openings must be provided to allow a free flow of air around the underfloor void
• The standard ventilator will fit into a cavity wall with an external leaf of 100-102.5mm, a cavity width of 50mm and an inner leaf of 100mm. External and internal horizontal extension sleeves are available to accommodate thicker walls or wider cavities

Please see technical section for more details.

How to order
• Measure the length of each wall requiring telescopic underfloor ventilators, and divide by 2m to establish the quantity required.
• Always round up if the calculation does not work out to an exact whole number

Bill of quantity
F30 Accessories/sundry items for brick/block/stone walling
Clause 160 AIR BRICK
To BS493, Class 1, built in as the work proceeds.
• Manufacturer: Timloc Building Products, Rawcliffe Road, Goole, East Yorkshire, DN14 6UG. Tel: 01405 765567, Fax: 01405 720479. Web: www.timloc.co.uk
• Reference: 1201 Telescopic Cranked Under Floor Vent (6,000mm²)
• Design: Rectangular
• Work size: Each unit 225/375mm coursing x 220mm, (6,000mm² equivalent area)
• Material: Thermoplastic
• Colour: ................ Black
• Optional Accessories: ........................................................
  1204 Vertical Extension Sleeve (additional 2 brick courses)
  1205 Duct Adaptor (suits 110mm diameter duct)

Product code
Telescopic underfloor vent

<table>
<thead>
<tr>
<th>Equivalent area</th>
<th>Product code</th>
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</thead>
<tbody>
<tr>
<td>6000mm²</td>
<td>1201</td>
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</table>
Accessories

Easy-to-use accessories for a range of underfloor ventilation applications

Use
• To provide horizontal or vertical extension to a telescopic underfloor ventilator to accommodate different wall/cavity/brick courses etc.
• To connect the ventilator to a duct

Features and benefits
• Does not restrict airflow through the main telescopic underfloor ventilator
• Purpose-made accessories eliminate the need for on site modifications
• Lightweight and easy to handle
• Durable and totally resistant to decay

Quality
• Satisfies all NHBC requirements
• Manufactured to BS EN ISO 9001 : 2000
• Complies with all relevant Building Regulations
• Meets all relevant British Standards

Material and colour choice
• All standard accessories are injection moulded in polypropylene
• All accessories are available in black only

Products in the system

Horizontal front extension sleeve - Product 1203
Fits between the airbrick and upper front opening of the telescopic underfloor ventilator to accommodate external walls of more than 102.5mm thickness, up to a maximum of 215mm.

Vertical extension sleeve - Product 1204
Fits between the upper and lower parts of the telescopic underfloor ventilator to accommodate a vertical step of more than five brick courses.

Duct adaptor - Product 1205
Fits on to the lower rear opening of the telescopic underfloor ventilator to allow a standard 110mm external diameter plastic underground drainage pipe to be connected via a coupling connection.

Horizontal rear extension sleeve - Product 1206
Fits into the lower rear opening of the telescopic underfloor ventilator to accommodate cavity widths between 50-150mm - or internal walls of more than 100mm thickness, up to a maximum of 200mm.

Installation advice
• Product 1203 should be fitted with the slotted end to accept the airbrick. 1203 sleeves can also be slotted together to form longer sections if required
• Product 1204 fits externally over the upper and lower parts of the ventilator, units can be multi stacked for greater height
• Product 1205 has a ‘push-fit’ opening for the drainage pipe. The vermin grille of the ventilator can be left in position. For fitting to drainage pipe a coupling will be required
• Product 1206 fits over the lower rear opening of the ventilator. The vermin grille must first be removed to allow this, and then replaced at the other end of the extension sleeve. 1206 sleeves can also be slotted together to form longer sections if required
• To improve joins between the telescopic underfloor ventilator and an accessory, seal using insulating tape or duct tape

How to order
• Establish which part of the telescopic underfloor ventilator needs extending, and specify the appropriate accessory

Bill of quantity

F30 Accessories/sundry items for brick/block/stone walling
Clause 160 AIR BRICK
To BS493, Class 1, built in as the work proceeds.
• Manufacturer: Timloc Building Products, Rawcliffe Road, Goole, East Yorkshire, DN14 6UQ. Tel: 01405 765567, Fax: 01405 720479, Web: www.timloc.co.uk
• Reference: Accessories
• Design: Various
• Work size: Various
• Material: Thermostatic
• Colour: Black
• Optional Accessories: .................................................................
  1203 Horizontal Front Extension (+115mm)
  1204 Vertical Extension Sleeve (additional 2 brick courses)
  1205 Duct Adapter (suits 110mm diameter duct)
  1206 Horizontal Rear Extension (+100mm)

The table below shows how the build up of telescopic underfloor ventilators and vertical extension pieces achieve required building in height

<table>
<thead>
<tr>
<th>Description</th>
<th>To suit</th>
<th>Product code</th>
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</thead>
<tbody>
<tr>
<td>Horizontal front extension</td>
<td>+ 115mm</td>
<td>1203</td>
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<tr>
<td>Vertical extension sleeve</td>
<td>Additional 2 brick courses</td>
<td>1204</td>
</tr>
<tr>
<td>Duct adaptor</td>
<td>Suits 110mm diameter duct</td>
<td>1205</td>
</tr>
<tr>
<td>Horizontal rear extension</td>
<td>+ 100mm</td>
<td>1206</td>
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</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Brick height</th>
<th>Rise (mm)</th>
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<tbody>
<tr>
<td>1201 telescopic under floor vent</td>
<td>3-5</td>
<td>225/375</td>
</tr>
<tr>
<td>+ 1 No. 1204 vertical extension sleeve</td>
<td>6-7</td>
<td>450/525</td>
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<tr>
<td>+ 2 No. 1204 vertical extension sleeve</td>
<td>9-9</td>
<td>600/675</td>
</tr>
<tr>
<td>+ 3 No. 1204 vertical extension sleeve</td>
<td>10-11</td>
<td>750/825</td>
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<tr>
<td>+ 4 No. 1204 vertical extension sleeve</td>
<td>12-13</td>
<td>900/975</td>
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</table>
Airbrick

Effective airbrick ventilator available in a range of colours

**Use**
- In conjunction with the telescopic underfloor ventilator for providing ventilation below suspended ground floors
- In conjunction with cavity sleeves for ventilation through external walls to a building interior

**Features and benefits**
- Equivalent area of 6170 mm² per air brick
- Unique stepped front grille greatly reduces the entry of wind driven rain
- 6.5mm wide front grille openings comply with BS 5440 Pt 2 and British Gas requirements
- Integral clip together facility allows multiple airbricks to be stacked to form 9” x 6” and 9” x 9” sizes
- Available in a range of colours to blend in with various brick types
- Very tough and robust
- Durable and totally resistant to decay
- 9” x 6” cowl version available to replace double air brick - provides an equivalent area of 11,000 mm²

**Quality**
- Satisfies all NHBC requirements
- Manufactured to BS EN ISO 9001 : 2000
- Complies with all relevant Building Regulations
- Meets all relevant British Standards
- Equivalent area marking to front face of airbrick to comply with BS EN 13141-1 : 2004

**Material and colour choice**
- Manufactured by injection moulding in UV stabilised polypropylene
- The 1201AB airbrick is available in buff, terracotta, grey, brown, black and white, in packs of 20

**Installation advice**
- Always use in conjunction with a Timloc telescopic underfloor ventilator, or cavity sleeve, depending on the application

**Please see technical section for more details.**

**How to order**
- Airbrick quantity will be relative to the number of telescopic underfloor ventilators or cavity sleeves required. Please see technical section
- State the colour required

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**Bill of quantity**

F30 Accessories/sundry items for brick/block/stone walling

Clause 160

Air Brick

To BS495, Class 1, built in as the work proceeds.

- Manufacturer: Timloc Building Products, Rawcliffe Road, Goole, East Yorkshire, DN14 6UQ. Tel: 01405 765567, Fax: 01405 720479. Web: www.timloc.co.uk
- Reference: 1201AB (Interlinking Airbrick)
- Design: Rectangular
- Work size: Each unit 69mm coursing x 215mm, (Equivalent area 6170mm²)
- Material: Thermoplastic
- Colour: ............ (Black, White, Brown, Buff, Grey or Terracotta)
- Optional Accessories: .................................................... e.g. 1201 Telescopic Cranked Under Floor Vent (6,000mm²)

**Product codes**

<table>
<thead>
<tr>
<th>Airbrick</th>
<th>Equivalent area</th>
<th>Colour</th>
<th>Product code</th>
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<tbody>
<tr>
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<td>Buff</td>
<td>1201AB-Buff</td>
<td></td>
</tr>
<tr>
<td>6170mm²</td>
<td>Terracotta</td>
<td>1201AB-Terra</td>
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</tr>
<tr>
<td>6170mm²</td>
<td>Grey</td>
<td>1201AB-Grey</td>
<td></td>
</tr>
<tr>
<td>6170mm²</td>
<td>Brown</td>
<td>1201AB-Brown</td>
<td></td>
</tr>
<tr>
<td>6170mm²</td>
<td>Black</td>
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<td></td>
</tr>
<tr>
<td>6170mm²</td>
<td>White</td>
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</table>

<table>
<thead>
<tr>
<th>Double airbrick replacement cowl</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Equivalent area</th>
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<th>Product code</th>
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<tbody>
<tr>
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<td>11,000mm²</td>
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<td>1230 AB-Terra</td>
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<tr>
<td>11,000mm²</td>
<td>White</td>
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</tbody>
</table>

NB. Guidance in BS EN 13141-1 : 2004 indicates the “free area” of a background ventilator is typically 25% larger than its “equivalent area”.

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Timloc strongly recommend that reference is made to the relevant technical information at the end of this section before the products are specified, purchased or installed.
Underfloor ventilation

If a building uses a suspended ground floor it is important to provide ventilation into the underfloor void. This prevents condensation, removes stagnant air and is particularly important in areas where radon or methane gas may pose a problem. The provision of ventilation is important regardless of whether the suspended floor is of beam and block or traditional joist and floor board construction.

The ideal method for providing ventilation into the underfloor void is to use the Timloc airbrick and telescopic underfloor ventilator.

- The airbrick and underfloor ventilator must always be used together. The airbrick is a push fit into the upper front opening of the ventilator.
- The airbricks and ventilators should ideally be spaced along the wall at not more than 2m centres with the first and last ventilator being positioned within approximately 450mm of the wall corner. This is to ensure a good flow of air and to eliminate areas of calm air where stagnant air pockets could form.
- If the building is a simple rectangular shape on plan it is acceptable to install airbricks and ventilators along the two longest sides of the building. If the building is ‘L’ shaped or of more complex design then airbricks and ventilators should be installed around the full perimeter of the building.
- It is important to provide corresponding ventilation openings in any internal dividing walls so as to allow air to circulate throughout the underfloor void.
- The airbricks should be built into the external wall above the finished ground level so as to prevent rain and snow water from entering the ventilator. They would usually be positioned at a similar level to the ground level DPC.
- The lower section of the ventilator should be extended down to the level of the underfloor void by means of its telescopic action. This can accommodate a step of up to five vertical brick courses. The inner leaf blockwork must be cut to allow positioning of the lower section of the ventilator. If the design of the building is such that the standard ventilator is not long enough a vertical extension sleeve is available which will extend the ventilator to a height of nine vertical brick courses.
- The standard ventilator suits a wall with a 100 mm thick outer leaf, 50mm cavity and 100mm thick inner leaf. If the cavity is slightly wider or the inner leaf slightly thicker than these dimensions then the standard ventilator will usually still be acceptable as long as the cut-out in the inner blockwork is kept clear. For thicker outer leaves a horizontal front extension is available and a horizontal rear extension for use with particularly wide cavities or thick inner blockwork.

Telescopic gas vent outlets

(1201+1201AB+1206+GVL900)

The combined units will allow ventilation outlets to either a sub floor void or via a range of adaptors to a venting layer and allow the provision of a minimum of one complete volume change per 24 hours as required by the NHBC. The Timloc vent units will achieve an airflow rate of 4.85L/sec (17 m³/hr) or equal to an equivalent area of 6000mm². NB. All airflow testing has been independently tested by the BRE to BS EN 13141-1.

Through the wall ventilation

Through the wall ventilators provide passive ventilation through external walls into habitable rooms. It is important to differentiate between a ventilator which is required to provide general background ventilation and one which provides air into a room which contains a heat producing appliance such as a central heating boiler or gas fire.

- If only general background ventilation is required then product selection is less critical. A habitable room requires a free airflow of 8000 m³ in order to comply with Building Regulations. This can be provided by using two Timloc airbricks complete with cavity sleeves and internal louvred or hit and miss grilles. Or, alternatively, any one of the anti draught ventilator products can be used.
- If the room contains a heat producing appliance the provision of constant and reliable ventilation is vitally important. The anti draught ventilator products are strongly recommended for this application as they comply fully with legislation governing gas and heating appliances. The size and number of anti draught ventilator products required will be dictated by the requirements of the particular heating appliance and it is strongly recommended that advice is sought from the manufacturer.

General recommendations for the specification and use of through the wall ventilators are detailed below:

- Always check that the appropriate size and number of through the wall ventilators are used to suit the application.
- Never fit just an airbrick. A cavity sleeve must always be fitted to the back of the airbrick to ensure that the air is transmitted effectively through the wall and into the room.
- Hit and miss grilles may only be used for general background ventilation, they must never be used to ventilate any kind of gas or heating appliance.
- Ventilators used to provide air for gas or heating appliances must be permanently open, there must be no facility to block or close the ventilator. Also, they must not contain any kind of fine mesh or insect screen.
- Through the wall ventilators should always be fitted well above external ground level so as to ensure that rain and snow water cannot enter the ventilator.
- It is recommended that a section of horizontal cavity tray is installed directly above the through the wall ventilator so as to prevent water from tracking across the cavity sleeve from the outer leaf to the inside of the building.
- In order to help reduce the effect of draughts it is worth considering positioning the through the wall ventilator close to any heating appliance rather than at the opposite side of the room. Positioning the ventilator at high level rather than close to the floor will also be of assistance.