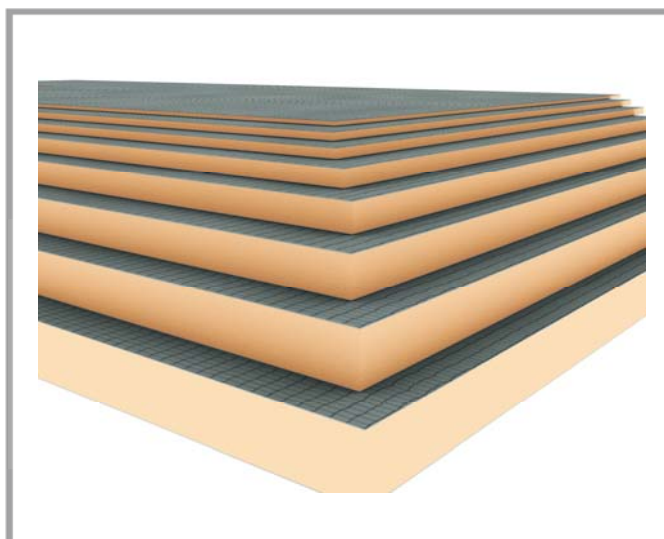


# VAUFHIB

## Under floor heating insulation board

### Product Specification & Fixing Instructions



#### Stock Ref. No

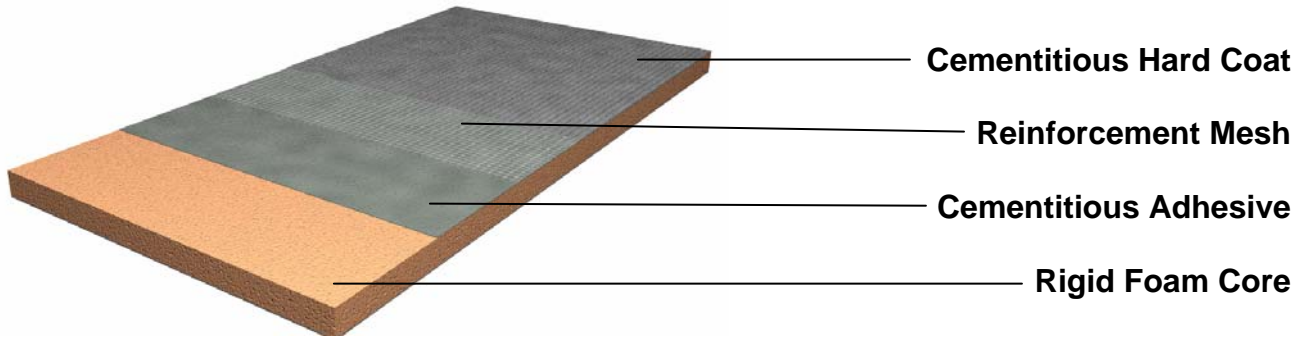
447267	(VAUFHIB6)
447268	(VAUFHIB10)
447269	(VAUFHIB12)
447270	(VAUFHIB20)
447271	(VAUFHIB30)
447272	(VAUFHIB40)
447273	(VAUFHIB50)
447274	(VAUFHIB60)
447275	(VAUFHIB70)

***Vent-Axia***<sup>®</sup>

PLEASE READ INSTRUCTIONS IN CONJUNCTION WITH THE ILLUSTRATIONS.  
PLEASE SAVE THESE INSTRUCTIONS

# Vent-Axia under floor heating insulation board

## Product construction



## Fixing to Wooden Floors

**By Adhesive** - The boards can be laid onto a level floor, with a suitable flexible rapid set cementitious tile adhesive – solvent based or ready mixed adhesives **MUST NOT** be used. Boards should be thoroughly bedded and laid in a chequer plate fashion, like bonding brickwork, making sure that there are no gaps between the boards. **DO NOT ALLOW THE ADHESIVE TO FORM A DRY SKIN.**

**By Mechanical Fixing** - The boards (other than 6mm boards) can be installed with mechanical fixings only to flat and level timber floors using approximately 12 fixings per 1200mm x 600mm board, with suitable screws and a 35mm fixing washer under the head. Tighten until the washer bites into the board. (Specially developed screws & washer kits are available from your supplier.)

**IT IS IMPORTANT THAT THERE ARE NO ELECTRICAL CABLES OR PIPE WORK UNDER THE FLOOR THAT COULD BE DAMAGED BY THE SCREW FIXING. THE CORRECT SCREW LENGTH SHOULD BE USED.**

## Fixing to Concrete Floors

Prior to the fixing of Vent-Axia under floor heating insulation boards (VAUFHIB), all traces of loose material should be removed back to the concrete substrate. The floor should be level and dust free. New concrete or screed should be correctly cured prior to the fixing of boards. Seal the floor with a suitable primer. A suitable flexible rapid set cementitious tile adhesive should be used – solvent based adhesives or ready mixed adhesives **MUST NOT** be used. Apply the bed of adhesive to the floor using an 8mm square notched trowel. Boards should be thoroughly bedded and laid in a chequer plate fashion, like bonding brickwork, making sure that there are no gaps between the boards. **DO NOT ALLOW THE ADHESIVE TO FORM A DRY SKIN.** Any slight depressions in the concrete floor will normally be taken up with the thickness of the adhesive. Boards should be thoroughly bedded, ensuring that no voids remain beneath them.

## Movement Joints

Vent-Axia under floor heating Boards must not bridge movement joints in the sub floor. The integrity of such joints should be maintained through the board/tile bed and should be sealed in the appropriate manner.

## Tile Fixing to Floors

When fixing to floors a minimum tile size of 150mm x 150mm is recommended and fixed using a solid bed fixing technique, ensuring no voids remain under the tiles. Once the tile bed has hardened sufficiently, the joints between the tiles can be grouted in the usual manner.

## Tile Fixing to Floors with Under Floor Heating Cable/Mat

Tiles can be laid directly on top of the under floor heating cable/mats, however care must be taken not to damage the heating cable. The tile adhesive must be forced onto, and where possible through, the heating mat so that no voids remain under the tiles. Only once the self levelling compound has fully cured should tile fixing begin.

## Note

Vent-Axia under floor heating boards can be affected by atmospheric conditions which can cause them to warp slightly prior to installation. If this occurs they can be straightened by applying a minimal amount of hand pressure. This correction will not affect the performance of the boards. When fixing boards in conditions where the room temperature can fluctuate considerably (e.g. conservatories) it is advisable to control the room temperature preventing the boards from expanding before the adhesive sets properly.

All information is given as guidance and if adhered to will perform as intended. We fully guarantee the quality of our boards but as we do not have knowledge of site conditions or the capability of the installer, we cannot accept liability for damage which may arise as a result of installation. For further information, please do not hesitate to contact us.

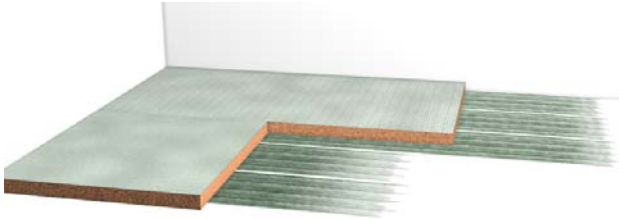
# How to Install Vent-Axia insulation boards with electric under Floor Heating

## Stage 1

Lay each board using a rapid set flexible cement based tile adhesive applied with an 8mm square notched trowel to form a level base.

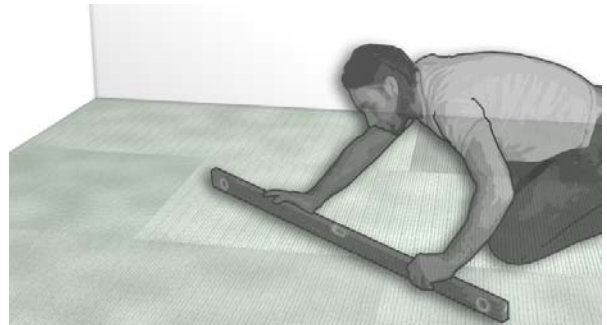
Boards must be pressed firmly into adhesive, whilst the adhesive is still tacky.

DO NOT let the adhesive form a dry skin  
(Follow manufacturer's instructions)



## Stage 2

Lay the panels with staggered joints. Use a straight edge and level to ensure good alignment. Lightly butt the boards together leaving a 5mm gap around the perimeter of the room.



## Stage 3

**Fixing Without Adhesive (board size 1200mm x 600mm)**

**Note: - Floor must be level.**

**Suspended Timber Floor.**

Secure with VA fixings at a rate of 12 per board. Fixings should be approx 30mm from the edge of the board and placed at 300mm – 400mm centres over the board surface.

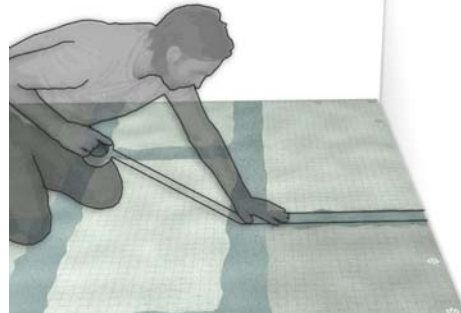
On concrete or uneven surfaces a rapid set cement based flexible adhesive must be used.



## Stage 4

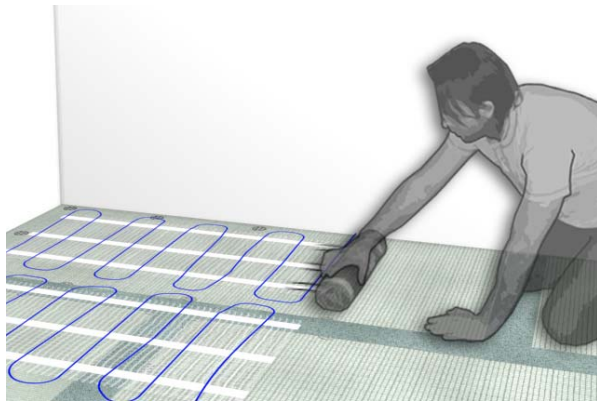
**Joint details for wet room floors**

All gaps must be filled with a suitable waterproof sealant and all joints taped with an alkaline resistant glass fibre reinforcement tape.



## Stage 5

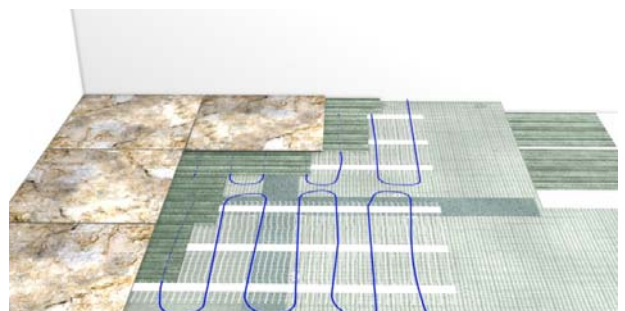
Now lay the heating element following the instructions provided with our heating products.



## Stage 6

We recommend using a self levelling compound over the under floor heating element reducing the risk of damaging the heating cables and to assist in the laying of tiles. (optional)

Lay tiles using the correct cement based flexible adhesive for the tiles selected (check with tile supplier) the grout.



Stock Ref. No	VA Ref	Screws (50 per box)	Thickness	Width (mm)	Length (mm)	Weight (kg)	U-Value (W/m2K)
447267	VAUFHIB6	447277	6	600	1200	2.36	4.5
447268	VAUFHIB10	447277	10	600	1200	2.37	2.70
447269	VAUFHIB12	447277	12.5	600	1200	2.42	2.16
447270	VAUFHIB20	447278	20	600	1200	2.59	1.35
447271	VAUFHIB30	447279	30	600	1200	2.81	0.90
447272	VAUFHIB40	447280	40	600	1200	3.03	0.67
447273	VAUFHIB50	447281	50	600	1200	3.25	0.54
447274	VAUFHIB60	447282	60	600	1200	3.47	0.45
447275	VAUFHIB70	447282	70	600	1200	3.69	0.39

Accessories	Stock Ref. No	VA Ref
Roll of jointing tape	447276	VAUFHIBT
35mm washers (100 per box)	447283	VAUFHIBW

Properties	Unit	Value
Compressive Strength	Kpa	300
Thermal Conductivity to BS874	W/Mk	0.027
Thermal Conductivity to BSEN 13164 5years	W/Mk	0.031
Water Absorption	% by volume	0.20
Density	Kg m <sup>3</sup>	36
Flexural Strength (Transverse)	Kpa	600
Flexural Strength (Longitudinal)	Kpa	700
Temperature Range	Deg C	-50, +75
Fire Performance	BS 476 part 6,7 <i>Surface spread of flames</i>	Class 0

## The **Vent-Axia** Guarantee

Applicable only to products installed and used in the United Kingdom. For details of guarantee outside the United Kingdom contact your local supplier.

Vent-Axia guarantees its products for two years from date of purchase against faulty material or workmanship. In the event of any part being found to be defective, the product will be repaired, or at the Company's option replaced, without charge, provided that the product:-

- Has been installed and used in accordance with the instructions given with each unit.
- Has not been connected to an unsuitable electricity supply. (The correct electricity supply voltage is shown on the product rating label attached to the unit).
- Has not been subjected to misuse, neglect or damage.
- Has not been modified or repaired by any person not authorised by the company.

### IF CLAIMING UNDER TERMS OF GUARANTEE

Please return the complete product, carriage paid to your original supplier or nearest Vent-Axia Centre, by post or personal visit. Please ensure that it is adequately packed and accompanied by a letter clearly marked "Guarantee Claim" stating the nature of the fault and providing evidence of date and source of purchase.

The guarantee is offered to you as an extra benefit, and does not effect your legal rights

# Vent-Axia®

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**UK NATIONAL CALL CENTRE**, Newton Road, Crawley, West Sussex, RH10 9JA

SALES ENQUIRIES: Tel: 0844 8560590 Fax: 01293 565169

TECHNICAL SUPPORT: Tel: 0844 8560594 Fax: 01293 539209

For details of the warranty and returns procedure please refer to [www.vent-axia.com](http://www.vent-axia.com) or write to Vent-Axia Ltd, Fleming Way, Crawley, RH10 9YX