Acoustic Bafflestack

Distributed By POTTER INTERIOR SYSTEMS
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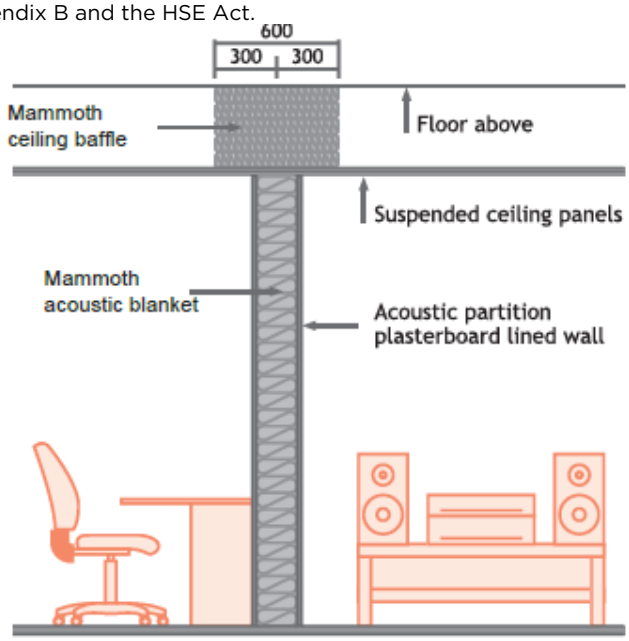
Mammoth® 100% polyester insulation is safe and easy to install. Mammoth Bafflestack is designed for use in the ceiling plenum to reduce sound transmission from one room to another. It will create a quieter work environment.

Before you get started

- Mammoth is safe to install - it will not irritate your skin when you touch it - in fact it is made from the same material that you may find in your pillows and duvets.
- For further safety information on installing insulation refer to NZS4246 Appendix B and the HSE Act.

Recommended tools

- Tape measure and/or digital laser meter.
- Sharp knife with replaceable blades or a Bahco insulation saw.
- Step ladder.
- Ventilated goggles, dust mask and protective clothing (for protection from dirt, dust, and other safety risks).



Things to look out for

When installing Mammoth Bafflestack, be sure to:

- Keep the product dry at all times. Do not use Mammoth Bafflestack in situations where the product will come into contact with water or moisture.
- Use sufficient product so that a snug fit is achieved around the edges. The product is pre cut to 600mm in approx 11 metre lengths - tear across the width by hand to reduce length as required.

Clearances

Clearances as per NZS 4246:

- Extractor fans (unducted/exposed) – 200mm
- Metal flues – 50mm
- Brick/concrete chimneys – 50mm
- Recessed light fittings (downlights)

If the manufacturer's specified clearances for downlights are known they shall be followed. If they are not known then the following clearances shall be made:

- Halogen lamps - 200mm
- Incandescent lamps - 50mm

Where the type of lamp cannot be determined, a minimum clearance of 200mm shall be made between the downlight and insulation material.

Ceiling Hazards

The hazards in the ceiling area include but are not limited to: working at heights, damaging ceiling tiles, sharp objects such as nails, heat exhaustion, dust inhalation, fragile ceilings and other dangers such as chimneys, downlights, hidden wardrobes, ventilation and air conditioning systems. For further guidance refer to the IAONZ Safety Induction Plan at www.iaonz.co.nz/pdf/iaonz-passport-handbook.pdf

How to install Mammoth Acoustic Bafflestack

- Stack the Bafflestack insulation in layers, lengthwise over the common wall. As the roll is continuous and pre-cut to width, simply tear to required length.
- Centre the stack so that there is 300mm equally installed each side of the common wall (unless specified elsewhere).
- Use the cut edge as a guide to install the correct number of layers - compressing the baffles to fill the void.
- Please refer to the table on the right for compression rates in a typical plenum.
- If a double stack is specified, lay 600mm wide stack each side of the common wall in the ceiling cavity.
- Electrical/Computer boxes and air conditioning units must be free to air cool if they have fans installed.
- We recommend the ceiling tile face and top of the wall have acoustic foam applied when installing the last Bafflestack to reduce the chance of acoustic flanking at this junction.
- Note: For optimum performance, it is useful to know that the ceiling gridlines should be designed so that the grid joints meet over the common wall.

R-value
This product will achieve nominal stabilised thickness and R-value within 72 hours after being fitted. However the performance of this product may be reduced if stored for a prolonged period of time in its compression packaging. The total installed R-value of Mammoth insulation depends on the building materials, design and installation, and may be greater, equal or less than the stated R-value of the product.

SINGLE STACK — Bafflestack Table

Compression rate	Typical Plenum height	Number in the stack	Lineal Metre	m2	Number of Bales req'd	Anticipated CAC
10%	600	7	1	4.2	0.21	39
10%	800	9	1	5.4	0.27	39
10%	1200	14	1	8.4	0.42	39
10%	1500	17	1	10.2	0.51	39
30%	600	9	1	5.4	0.27	43
30%	800	12	1	7.2	0.36	43
30%	1200	18	1	10.8	0.54	43
30%	1500	21	1	12.6	0.63	43
50%	600	12	1	7.2	0.36	55*
50%	800	16	1	9.6	0.48	55*
50%	1200	24	1	14.4	0.72	55*
50%	1500	24	1	14.4	0.72	55*

DOUBLE WIDTH STACK

Compression rate	Typical Plenum height	Number in the stack	Lineal Metre	m2	Number of Bales req'd	Anticipated CAC
10%	600	7	1	8.4	0.42	53*
10%	800	9	1	5.4	0.27	53*
10%	1200	14	1	8.4	0.42	53*
30%	600	9	1	5.4	0.27	69*
30%	800	12	1	7.2	0.36	69*
30%	1200	18	1	10.8	0.54	69*
30%	1500	21	1	12.6	0.63	69*

Current as at June 2022.