

### BEFORE YOU GET STARTED

#### SAFE TO INSTALL

- It won't 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

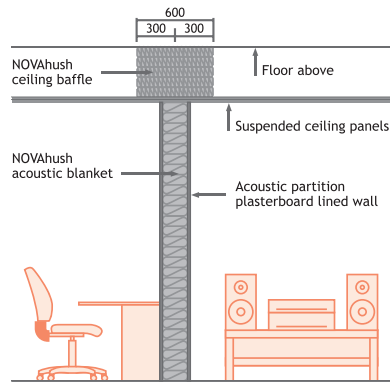
#### RECOMMENDED TOOLS

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

#### THINGS TO LOOK OUT FOR

When installing NOVAhush 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 easily torn to required lengths. Tear pre-cut Bafflestack to required lengths.



1. NZS 4246: 2006 Amendment No. 1, correct as at September 2010

### GENERAL

Mammoth™ 100% polyester insulation is safe and easy to install. Mammoth™ NOVAhush Bafflestack insulation is designed for use in the ceiling cavity to reduce sound transmission over the ceiling path. It will create a quieter home or work environment.

#### CLEARANCES

Clearances per NZS 4246<sup>1</sup>

- Extractor fans (un-ducted/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

The hazards in the ceiling area include but are not limited to: 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](http://www.iaonz.co.nz/pdf/iaonz-passport-handbook.pdf)

### HOW TO INSTALL MAMMOTH™ NOVAhush ACOUSTIC BAFFLESTACK

1. Stack the NOVAhush insulation in layers, lengthwise over the common wall. As the roll is continuous and pre-cut to width, simply tear to required length.
2. Centre the stack so that there is 300mm equally installed each side of the common wall (unless specified elsewhere).
3. 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 left for Compression rates in a typical, 1.2 metre plenum height for single and double width Bafflestack.

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.

Should you require further details, please contact one of our Account Managers on 0800 100 007.

NB: 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.

**SINGLE STACK** Bafflestack Table

Compression rate	Typical Plenum height	Number in the stack	Lineal Metre	m <sup>2</sup>	Number of Bales rq'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	m <sup>2</sup>	Number of Bales rq'd	Anticipated STC
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*