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NZS 4246:2006 Energy efficiency - Installing insulation in residential buildings

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Abbreviation NZS 4246:2006 Valid from 19/12/2006

Information provider Standards New Zealand Author Standards New Zealand Information type New Zealand Standard Format PDF

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Description

The Standard covers methods of installing common insulation products in common residential construction types, and information on the safe installation of insulating materials is appended. Loose-fill products are included, but only to the extent of generic guidelines. On-ground vapour barriers have been included although they are not, in themselves, insulation products, because keeping ground moisture out helps to keep indoor air dryer, reducing condensation and improving

the quality of the living environment.

Scope

The detail in the Standard is based on residential-type construction, but the methods may be appropriate to other constructions. The Standard covers both the installing of insulation in new buildings during construction and the retrofitting of insulation in existing buildings.

This Standard excludes installation of:

- Structural elements of buildings that provide thermal resistance by any particular building material or part of a building. Information on thermal resistance may be found in NZS 4214, NZS 4218, NZS 4243.1, NZS 4305 and the BRANZ House Insulation Guide;
- Insulation in buildings with specific design, including freezers or cool stores;
- Insulation in buildings where insulation is part of the cladding material, e.g. exterior insulation and finish systems (EIFS);
- Insulation for purposes other than for thermal benefit, e.g. acoustic;
- Vapour barriers where these may be required in building elements around areas such as spa pools, swimming pools or mountain lodges;
- External applications;
- Pre-assembled insulating systems;
- Double-glazing (for further information on glazing and R-values, see NZS 4218 and the WERS guide);
- Expanding in situ foams;
- Radiant barriers in walls and ceilings;
- Slab on ground; and
- Reflective pliable membranes.

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Figure

- 1 Recessed Light Fitting
- 2 Recessed Ceiling Space
- 3 Retrofitting Wall Underlay
- 3(A) Roof Detail For A Low Slope
- 3(B) Skillion Roof With Metal Tile Cladding
- 3(C) Low Pitch Roof With Metal Tiles
- 3(D) Profiled Metal Roof
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- 4 Segments In Unlined Ceiling
- 5 Blanket In Ceiling Secured With Strapping

6 – Pitched Roof – Segments Installed In Lined Ceiling To Top Plate Withcontinuous Blanket Overlaid By 150mm

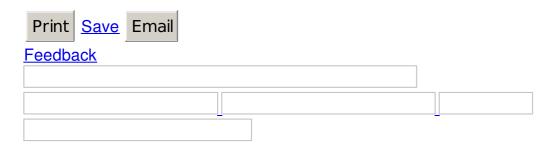
7 – Truss Roof – Segment Installed To Top Plate With Full

Thickness Blanketabutted To End Of Segment Between Truss

8 – Blanket Torn Over The Ceiling Joist 300mm Back From The Top Plate

9 – Example Of 'Tucking In' Showing Undesirable Compression Ofinsulation At Edges

- 10 Segments Correctly Installed In New Wall
- 11 Tearing Blanket To Fit
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