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

Table of Contents

View on Information Provider website {{ linkText }}

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

Cited By
This resource is cited by 2 documents (show Citations)

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.

For assistance with locating previous versions, please contact the information provider.

For assistance with locating previous versions, please contact the information provider.

This resource is cited by:

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

This document is CITED BY:

- SH/AS1 (First edition, unamended)

  NZS 4246:2006 is cited by SH/AS1 Simple House Acceptable Solution

- AS/NZS 60598.2.2:2001

  NZS 4246:2006 is cited by AS/NZS 60598.2.2:2001 Luminaires - Particular requirements -

Recessed luminaires

Back

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

Show what documents this resource is CITED BY

Show what documents this resource CITES

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.

View on Information Provider website

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

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.

View on Information Provider website

This resource does not cite any other resources.

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

This resource does not CITE any other resources.

Back

Close

Table of Contents

3.8 Electrical Cables

3.9 Built-In Appliances And Enclosures Containing Electrial Equipment

3.10 Plumbing

3.11 Wall Underlay

3.12 Drained And Ventilated Cavities

3.13 Access Hatches

3.14 Strapping

3.15 Roof Space Ventilation

3.16 Unducted Fan Units

3.17 Unducted Passive Vents

3.18 Insulation Of Cold And Hot Water Pipes In Ceiling Spaces

4 Loose-Fill

4.1 Walls – Unlined

4.2 Pitched Roof, Flat Ceiling

5 Segments And Blanket Products

5.1 Ceilings – Unlined

5.2 Ceilings – Lined

5.3 Walls – Unlined

5.4 Floors – New And Existing

C1 – Clearance 200mm –Approximate Reduction In R-Value From R-3.0 By Number Of Downlights Per 10m²

C2 – Clearance 200mm –Approximate Reduction In R-Value From R-3.0 By Distance Between The Centre Ofdownlights

C3 – Clearance 50mm –Approximate Reduction In R-Value From R-3.0 By Number Of Downlights Per 10m²

C4 – Clearance 50mm –Approximate Reduction In R-Value From R-3.0 By Distance Between The Centre Ofdownlights

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

3(E) – Metal Tile Roof

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

12 – Stapling Blanket

13 – Completed Blanket Installation In Framed Walls

14 – Installing Underfloor Blanket

15 – Installation Of Underfloor Rigid Floor Insulation

16 – Fitting Semi-Rigid Sheets

17 – Insulated Hot Water Cylinder

18 – Installing An On-Ground Vapour Barrier

19 – On-Ground Vapour Barrier

A1 – New Zealand Climate Zones

B1 – When Not To Install Underfloor Foil Insulation

- Privacy policy
- Disclaimer
- Copyright

Feedback