

Insulation Installation

Installing insulation or additional insulation in an existing dwelling can make a significant difference to the performance of the home. It is important to install installation correctly. This sheet deals with how to install insulation in various types of construction, providing installation tips and typical solutions. This sheet should be read in conjunction with 4.7 Insulation.



Please note that total R-values for roofs, ceilings, walls and floors given in this manual provide only one value for total thermal resistance of construction.

Under the Building Code of Australia (BCA), total R-values of the building fabric vary depending on climate zone and the height above the Australian Height Datum at the location where the building is to be constructed. Ensure you comply with the BCA requirements for energy efficiency of building fabric.

INSTALLATION TIPS

This section demonstrates how to install insulation without compromising its effectiveness.

Thermal bridges

The building frame can act as a thermal bridge, particularly in cold climates, conducting heat and allowing it to bypass otherwise effective insulation. Metal framing is a particular issue because of its high conductivity. The presence of the frame reduces the overall insulation value, as the frame can constitute up to 15 per cent of the wall, ceiling or floor surface. To help overcome the effect of thermal bridging:

- > Foam isolating strips between the metal frame and cladding must be at least 12mm with an R-value of 0.2.
- > Fix bulk insulation, such as foam boards, over the external or internal surface of the frame.

Vapour barriers

Vapour barriers include polythene sheet, reflective foil, foil backed plasterboard and well maintained water resistant painted surfaces. Water resistant insulation, such as foam can also act as a vapour barrier. Tape or glue all joints in vapour barriers to keep out moisture.

Use vapour barriers to protect from condensation:

- > In high humid (tropical) climates,
- > In cool climates where the difference between indoor and outdoor temperature is significant,
- > In roof spaces with a low ventilation rate, for example cathedral or raked ceilings,
- > In situations where high amounts of vapour are generated and not exhausted,
- > On the underside of metal roofing, to minimise the likelihood of condensation and corrosion.

Install vapour barriers on the warm side of the insulation:

- > In cold climates place the vapour barrier on the inside of the insulation (directly above the ceiling lining and next to the internal wall lining).
- > In warm climates place the vapour barrier on the outside of the insulation.

Roof ventilation

Ventilate the roof space where possible to allow built up heat to dissipate. Even in cooler climates a minimal amount of ventilation is desirable to allow built up moisture to escape. Sufficient ventilation is often achieved through the air gaps along the ridge line or between tiles. Gable or eaves vents may also be used.

Ventilated roof spaces in high humid (tropical) climates under metal roofing can result in excessive condensation at night. Condensation dropping off the underside of metal roofing onto the ceiling can be avoided by installing reflective foil insulation similar to that used under roof tiles.

In bushfire prone areas cover any openings with fine stainless steel mesh to prevent embers from entering the roof space. Keep roof spaces weather tight and vermin proof.

Gaps

Avoid gaps in all types of insulation. Even a small gap can greatly reduce the insulating value. Fit batts snugly and don't leave gaps around ducts and pipes. Tape up holes and joints in reflective insulation. Make sure the ends of multi cell and concertina foils are well sealed. Ensure that corners of walls, ceilings and floors are properly insulated as these are areas where heat leaks most often occur.

For safety reasons, minimum clearances must be left around hot objects, such as flues from fires, recessed downlights and their transformers. See 'Health and safety tips' below.

Full Your Home Technical Manual

Shelley O'Hara, Nancy D. Lewis



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The Complete Idiot's Guide to Renewable Energy for Your Home Brita Belli,Harvey Bryan,2009-07-07 An essential how to on powering your home with sun wind water and more For readers wanting to save money and the planet by using alternative energy this book provides everything they need to know The five basic sources are fully covered sun wind water earth and bio The benefits what is needed and whether it will work for a particular home are all carefully laid out in this comprehensive overview Solar energy for home heating water heating and electricity Wind power hydrogen and micro hydro power Heat pumps air geothermal and water source Heating with wood and going bio *Homeowner's Guide to Retrofitting: Six Ways to Protect Your Home from Flooding* Federal Emergency Management Agency (U S,Federal Emergency Management Agency (U.S.),2016-08-09 The Federal Emergency Management Agency FEMA has prepared this guide specifically for homeowners who want to know how to help protect their homes from flooding As a homeowner you need clear information about the options available to you and straightforward guidance that will help you make decisions This guide gives you both in a form designed for readers who have little or no experience with flood protection methods or building construction techniques This guide includes the updates to the residential flood protection methods and reflected changes made to the National Flood Insurance Program NFIP Homeowners and community property managers located in flood zones lowlands and lands vulnerable to flooding following heavy rains may be most interested in this guide that offers practical tips and options to protect your residence Related products Home Builder s Guide to Coastal Construction is available here <https://bookstore.gpo.gov/products/sku/064-000-00055-1> Divine Providence is available here <https://bookstore.gpo.gov/products/sku/008-022-00364-9> Resources about Floods can be found here <https://bookstore.gpo.gov/catalog/environment/nature/natural/environmental/disasters/floods> Water management resources collection is available here <https://bookstore.gpo.gov/catalog/environment/nature/water/management> *The Complete Idiot's Guide to Solar Power for Your Home* Dan Ramsey,2002 Offers advice and suggestions for building a solar powered home including estimating energy needs selecting the right equipment and maintaining the system once it is installed *The Complete Idiot's Guide to Solar Power for Your Home, 3rd Edition* Dan Ramsey,David Hughes,2010-04-06 All the power you need is already there This third edition helps readers understand the basics of solar photovoltaic power and explore whether it makes sense for them what their options are and what s involved with installing various on and off grid systems Solar power is a 3 billion industry and it s poised to grow to 39 billion by 2014 By 2011 the United States will surpass Germany as the largest market for solar power products *Nanotechnology Safety* Madhulika Srikanth,Ramazan Asmatulu,2013-06-12 The importance of construction and infrastructures cannot be undermined Buildings roads bridges dams transportation systems and other infrastructures have brought the nations of the world together in many ways and made it a much smaller place This chapter mainly talks about the world s construction industry and the advancement of new materials and technologies in the field of nanotechnology It also

discusses the shift toward sustainable development in the construction industry and how this development is applied by construction companies Nanotechnology is pushing construction and infrastructure industries to use more efficient nanomaterials in order to make smarter building structures and infrastructures However the role of various nanomaterials in the construction industry has been debated The widespread trend of using nanomaterials has been discouraged because of the biological and environmental health and safety impacts of using nanomaterials in construction and infrastructures Governmental agencies are currently playing a major role in establishing rules and regulations that govern proper and efficient handling and use of nanomaterials This study provides a look at the current situation and offers suggestions for continuing on our path toward sustainable development in the field

Universal Design 2014: Three Days of Creativity and Diversity Per-Olof Hedvall, Andreas Larsson, Kirsten Rassmus-Gröhn, Bitte Rydeman, 2014-05-15 Universal Design Design for All and Inclusive Design are all aimed at dismantling physical and social barriers to inclusion in all areas of life

Engagement in universal design is on the increase worldwide as practitioners and researchers explore creative and desirable solutions to shape the future of universal design products and practices This book is a collection of the papers presented at UD2014 the International Conference on Universal Design held in Lund Sweden in June 2014 The conference offered a creative and diverse meeting place for all participants to exchange knowledge experiences and ideas and to build global connections and creative networks for future work on universal design The themes of UD2014 span many aspects of societal life and the papers included here cover areas as diverse as architecture public transport educational and play environments housing universal workspaces and the Internet of things as well as designs and adaptations for assistive technology The book clearly demonstrates the breadth of universal design and its ongoing adoption in societies all over the world and will be of interest to anyone whose work involves building a more inclusive environment for all

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requirements and future strategies provides a snapshot of current methods and technologies for developing smart and sustainable built environment strategies over 30 fully refereed chapters from international experts addresses the particular requirements and problems of difference areas and climatic regions *Steering Sustainability in an Urbanising World* Dr Anitra Nelson, 2012-11-28 Sustainability has become the key challenge for urban planners housing and infrastructure policy makers Citizens are increasingly encouraged to live more compactly in denser urban developments to use less water and other natural resources and to choose public transport While councils government agencies and private business invest in a broad range of promotions offering discounts on sustainable products and services uptake has been slow and the impacts marginal at a time when environmental stresses suggest that we must act fast This book examines this pressing problem in a holistic way discussing broad scale sustainability policies and programmes for achieving sustainable urban futures It brings together academics and practitioners to analyze the complexity and interdependence of principles models processes and practices of sustainability in a range of integrated sectors as well as the establishment and maintenance of sustainable physical infrastructure in cities **The Complete Idiot's Guide to Buying and Selling a Home** Shelley O'Hara, Nancy D. Lewis, 2003 Goodbye old house hello good buy From looking to sell to finding a dream home this all in one guide features new updated and vital information and tips on getting the best deal no matter which side of the deal you're on Unlike other books this covers both buying and selling which usually go hand in hand Revised edition includes more information on buying a second home researching locations saving on costs and more Existing home sales are setting new records every year Very low mortgage rates are making this a great time to buy

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