

# EASY GUIDE TO INSULATION

including **KALGOORLIE**  
**NORTHAM**  
**WAGIN**  
**MEEKATHARRA**

Refer to the Building Code of Australia for insulation requirements for reflective foil laminates and combination foil and bulk insulation blankets.

In all ceilings and bulkheads  
INSTALL **R3.5** INSULATION

## ZONE 4

How thick (in mm) does the insulation have to be?						
COMMON BULK INSULATION MATERIALS	R1.0	R1.5	R2.0	R2.5	R3.0	R3.5
Cellulose fibre loose fill	40	60	80	100	120	140
Glass fibre batt	44	66	88	110	132	154
Polyester or wool blanket	45	68	90	113	135	158
Polystyrene expanded	39	59	78	98	117	137
Polystyrene extruded	28	42	56	70	84	98
Polyurethane rigid foamed aged	28	42	56	70	84	98
Rockwool batt	33	50	66	83	99	116
Wool (80%) polyester (20%) batt	45	68	90	113	135	158

\* These values are indicative only. R-value is reduced if the material is compressed to a lesser thickness that affects the density. Refer to manufacturers catalogue for values at various densities.

Are the walls made of a **TIMBER FRAME** with timber, steel or fibre cement sheet cladding  
INSTALL **R2.0** INSULATION

Are the walls made of a **STEEL FRAME** with timber, steel or fibre cement sheet cladding  
INSTALL **R2.0** INSULATION

Are the walls made of **RAMMED EARTH** or mud bricks  
INSTALL **NIL** INSULATION

Are the walls made of **REVERSE BRICK VENEER** (bricks on the inside only)  
INSTALL **R2.0** INSULATION

Are the walls made of **BRICK VENEER** (bricks on the outside only)  
INSTALL **R2.0** INSULATION

Are the walls made of **DOUBLE BRICK** with a cavity  
INSTALL **NIL** INSULATION

**CONCRETE SLAB ON GROUND**  
For other methods of floor construction refer to the Building Code of Australia (BCA)

Insulation in all new homes and renovations must adhere to the Building Code of Australia (BCA)

This may also be used as a guide for ceiling insulation in existing homes. However, retrofitting insulation in existing walls may be difficult.