

Insulation Installation Glass Wool and Batts

Business Name:	ABN:
Business Address:	
Contact Person:	Phone: Email:

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

Full Name:

Signature: Title: Date:

CLIENT OR PRINCIPAL CONTRACTOR DETAILS

Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date Risk Assessment supplied to Project Manager:	

SAMPLE

RISK MATRIX									
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE			Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.	Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.	Engineering Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	Administrative Change	
								PPE	

Risk Rating & Required Action:	
4A	Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.
3H	Review and approve additional controls before task starts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.
1L	Proceed, following standard operating procedures. Monitor and keep records.

Consequence Scale:			
Consequence	People (injury/illness)	Project / Assets	Compliance / Reputation
Catastrophic	Fatality or permanent total disability	project shutdown	Significant regulator intervention; criminal prosecution
Major	Serious injury/illness (hospital > 5 days)	critical delay	Improvement notice; major media coverage
Moderate	Medical-treatment injury; lost-time > 1 day	moderate delay	Minor breach; adverse client comment
Minor	First-aid only, no lost time	negligible delay	Isolated non-conformance
Insignificant	No injury	no schedule impact	Deviation caught and corrected on site

Notes on Hierarchy of Controls:
Remember to apply controls in the preferred order shown by the coloured pyramid:

1. **Eliminate**
2. **Substitute**
3. **Isolate**
4. **Engineering**
5. **Administrative**
6. **PPE**

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. WHS Governance, Legal Compliance and PCBU Duties	<ul style="list-style-type: none"> • Incomplete understanding of WHS Act 2011 and WHS Regulations as they apply to insulation works (construction, hazardous substances, confined spaces, working at height, plant) • Lack of clearly assigned WHS responsibilities between PCBU, principal contractor, supervisors and subcontractors • Failure to consult, cooperate and coordinate with other duty holders on multi-PCBU sites (e.g. builders, electricians, HVAC contractors) • No documented WHS management plan for insulation activities on construction projects • Inadequate review of legislative changes, codes of practice and standards relevant to glass wool and batt insulation • Poor records management for risk assessments, inductions, health monitoring, and incident investigations 	4A	<ul style="list-style-type: none"> • Establish and maintain a documented WHS Management System aligned with WHS Act 2011, WHS Regulations, and relevant Codes of Practice (Construction Work, Hazardous Chemicals, Managing the Work Environment and Facilities) • Define and document WHS roles, responsibilities and reporting lines for officers, managers, supervisors and workers involved in insulation works • Implement a formal process for consultation, cooperation and coordination with other PCBUs, including WHS interface agreements and pre-start coordination meetings • Develop project-specific WHS Management Plans for construction sites that include insulation scope, key risks (fibreglass, hot insulation, ceiling spaces, plant) and control strategies • Schedule periodic legal and standards compliance reviews (e.g. AS/NZS 4859, AS/NZS 1715/1716, electrical safety, working at heights) with documented action plans • Maintain controlled WHS documentation and records (risk assessments, SWMS, SDS, health monitoring reports, training records, audits) with version control and retention periods • Ensure officers exercise due diligence via regular WHS performance reporting, site visits, and review of risk control for insulation installation activities 	2M
2. Design, Planning and Integration with Building Services	<ul style="list-style-type: none"> • Inadequate consideration of insulation types (glass wool, batts, spray foam) and ensuring design sound insulation process leading to poor installability or safety • Insulation design that obstructs access to electrical wiring, junction boxes, downlights, skylights or mechanical plant • Failure to plan for safe access/egress into roof spaces and lofts for rafter insulation installation and ceiling panel installation • Insufficient allowance for ventilation requirements, leading to condensation, mould growth and degradation of insulation performance • Lack of design provisions to separate insulation from hot surfaces, recessed luminaires and other ignition sources 	3H	<ul style="list-style-type: none"> • Integrate WHS considerations into design and estimating processes, including safe installability, access routes, working space and material handling requirements • Specify insulation products and systems that are compatible with electrical and mechanical designs and comply with relevant fire and thermal performance standards • Require designers to identify and document no-go zones, services locations, skylights, fragile roof materials and restricted access areas on construction drawings • Mandate design details and installation instructions for clearances from downlights, transformers, flues and other heat sources in line with AS/NZS and manufacturer requirements • Include provisions for safe access into ceiling spaces and lofts (e.g. permanent access hatches, walkways, lighting, fall prevention measures) • Implement a design review and constructability process with installer and supervisor input before works commence, focusing on high-risk areas such as skylight insulation and confined roof cavities 	2M

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
	<ul style="list-style-type: none"> Poor planning for insulation around skylights, roof hatches and fragile roof sections increasing fall and break-through risks 			
3. Procurement and Selection of Insulation Products and Materials	<ul style="list-style-type: none"> Procurement of glass wool, fibreglass batts or blown insulation without verifying compliance with Australian standards and SDS requirements Selection of insulation with higher fibre shedding or irritant binders increasing risk of respiratory damage from fibreglass insulation exposure and skin/eye irritation Purchase of incompatible systems (e.g. sisalation with incorrect fire performance when used near heat sources) Inconsistent product labelling and packaging, leading to confusion over R-values, thickness, and installation methods Use of non-conforming or counterfeit products for sound insulation installation and thermal insulation Failure to specify low-dust, low-VOC alternatives where reasonably practicable 	3H	<ul style="list-style-type: none"> Implement a formal procurement procedure requiring verification of compliance certificates, SDS, and performance data (e.g. fire rating, acoustic rating) for all insulation products Standardise approved insulation product lists (glass wool batts, blown insulation, sisalation, sound insulation materials) with clear WHS and performance criteria Require suppliers to provide up-to-date SDS and installation instructions in Australian format and ensure they are accessible to workers and supervisors Specify low-irritant, low-dust fibreglass and glass wool products where practicable to minimise respiratory and dermal exposure Ensure all insulation products are appropriately labelled with thickness, R-value, and installation orientation to reduce on-site decision errors Conduct supplier performance reviews including WHS issues (e.g. incidence of fibre shedding complaints, packaging integrity, SDS accuracy) 	1L
4. Contractor Management, Competency and Supervision	<ul style="list-style-type: none"> Use of subcontractors for insulation works without adequate WHS prequalification or competency verification Inadequate training on hazards specific to handling of fibreglass insulation panels, glass wool insulation and blown insulation equipment Lack of supervision for new or young workers undertaking insulation batt installation and loft insulation work Poor understanding of risk controls for respiratory damage from fibreglass insulation exposure and unsafe handling of glasswool insulation No system for verifying licences/competencies for plant such as 	4A	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
	<ul style="list-style-type: none"> insulation blower machines, EWPs or forklifts used to move insulation • Failure to enforce SWMS implementation on construction sites, leading to drift from agreed controls 		[REDACTED]	
5. Induction, Training and Worker Information	<ul style="list-style-type: none"> • Workers unaware of specific hazards associated with glass wool, fibreglass batts, dust, and loft insulation risks • Inadequate training on safe systems for measuring and cutting insulation material and fixing insulation panels • Lack of awareness of symptoms and reporting pathways for respiratory irritation or skin/eye reactions • Poor understanding of safe work methods in roof spaces, around rafters, skylights and fragile ceiling linings • No competency-based assessment of workers operating insulation blower machines • Language or literacy barriers leading to misunderstanding of WHS procedures and PPE requirements 	3H	[REDACTED]	2M
6. Hazardous Substances, Dust and Respiratory Health Management	<ul style="list-style-type: none"> • Respiratory damage from fibre dust from insulation exposure and inhalation of airborne glass wool fibres and dust • Inadequate control of dust during batt cutting, measuring and cutting insulation material, and insulation blower machine operation • Lack of consideration of existing contaminants in roof spaces (rodent droppings, mould, asbestos-containing materials in older buildings) • Incorrect or inconsistent use of respiratory protection and protective clothing • Poor housekeeping leading to accumulation of fibrous dust on surfaces and in air 	4A	[REDACTED]	2M

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
	<ul style="list-style-type: none"> No health monitoring or baseline respiratory assessments for workers with significant ongoing exposure 			
7. Manual Handling, Ergonomics and Material Logistics	<ul style="list-style-type: none"> Musculoskeletal strain from loading and unloading insulation rolls or batts, and moving bulky glass fibre insulation panels Awkward postures during laying insulation in confined lofts, rafter spaces and ceiling cavities Unplanned single-person lifting of large insulation packs due to poor resourcing or time pressure Inadequate planning of material staging causing excessive carrying distances and repeated handling Use of makeshift methods to move insulation to high levels or roof areas (e.g. manual haul instead of mechanical aids) 	3H	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M
8. Working at Heights, Roof Spaces and Skylight/Loft Risks	<ul style="list-style-type: none"> Falls through fragile ceilings or plasterboard while installing ceiling insulation batts or ceiling panels Falls from height while accessing roofs, rafters or loft spaces for insulation works Skylight insulation works, including stepping onto or tripping over unprotected skylights or light shafts Inadequate edge protection or fall prevention systems when installing insulation or roof insulation Limited visibility and lighting in roof cavities contributing to slips, trips, missteps and contact with electrical or structural hazards Unsuitable access equipment (ladders, temporary platforms) or unsafe ladder use practices 	4A	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M
9. Electrical, Fire and Thermal Risk Management	<ul style="list-style-type: none"> Contact with live electrical wiring or unprotected junction boxes while laying insulation in ceilings and rafters 	4A		2M

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
	<ul style="list-style-type: none"> Overheating of downlights, transformers or other electrical components due to insulation contact or coverage Insulation installed too close to flues, chimneys or other hot surfaces increasing fire risk Inadequate procedures to isolate or identify electrical hazards before starting insulation works Use of portable electrical equipment (lights, blowers, cutting tools) in confined roof spaces without appropriate testing and tagging or RCD protection 		[REDACTED]	
10. Plant, Equipment and Insulation Blower Machine Management	<ul style="list-style-type: none"> Inadequate guarding, maintenance or inspection of insulation blower machines and associated hoses Uncontrolled dust emission from blower machine or operation affecting both workers and other site personnel Noise exposure from blower machines and cutting equipment without controls Untrained or unsupervised operation of blower machines or cutting tools for batt cutting Poor selection or maintenance of cutting tools leading to increased force, repetitive strain or slips with sharp blades 	3H	[REDACTED]	1L
11. Environmental Conditions, Heat Stress and Work Environment	<ul style="list-style-type: none"> Heat stress and dehydration for workers installing insulation in roof spaces, lofts and ceilings during hot weather 	3H	[REDACTED]	2M

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
	<ul style="list-style-type: none"> Poor ventilation in roof cavities leading to build-up of dust, heat and possible fumes from adjacent works Inadequate lighting contributing to slips, trips and contact with hidden hazards Adverse weather (rain, wind) affecting roof-level insulation works and increasing slip and fall risks Noise and vibration from nearby construction activities impacting concentration and communication 		[REDACTED]	
12. Site Traffic, Material Storage and Housekeeping	<ul style="list-style-type: none"> Vehicle and mobile plant interactions during delivery and loading/unloading of insulation rolls or batts Obstructed access/egress due to poorly stored insulation packs and offcuts in work areas and access routes Trip hazards from batt packaging, strapping, offcuts and tools left in ceiling spaces, lofts and walkways Damage to insulation materials from poor storage practices, leading to rework and increased handling Fire load increase due to accumulation of packaging waste and scrap insulation 	3L	[REDACTED]	1L
13. Health Surveillance, Incident Management and Worker Wellbeing	<ul style="list-style-type: none"> Unreported or unmanaged respiratory and skin issues resulting from prolonged exposure to glass wool and fibreglass insulation Inadequate incident and near-miss reporting culture leading to repeated insulation-related events (e.g. ceiling breakthroughs, loft falls, minor electrical contacts) Psychological stress from working in hot, confined spaces or under tight time pressures for insulation works 	3H	[REDACTED]	2M

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
	<ul style="list-style-type: none"> Insufficient access to first aid and appropriate decontamination facilities (eye wash, washing facilities) after handling fibres Failure to learn from incidents and audit findings, resulting in control measures not being improved over time 		[REDACTED]	
14. Documentation, Review and Continuous Improvement of Insulation WHS Controls	<ul style="list-style-type: none"> Outdated risk assessments and procedures for insulation installation not reflecting current methods, materials or equipment Inconsistent application of WHS controls between different projects and crews Limited worker consultation in developing or reviewing insulation-related procedures leading to impractical controls Failure to capture lessons learned from loft insulation risks, skylight incidents or unsafe handling of glasswool insulation Over-reliance on SWMS alone without higher-level system or more comprehensive insulation risk controls 	3H	[REDACTED]	1L

SAMPLE

EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES FOR ANY STATE THAT ARE NOT APPLICABLE

Queensland & Australian Capital Territory

Work Health and Safety Act 2011
 Work Health and Safety Regulations 2011
 Legislation QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws>
 Codes of Practice QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice>
 Legislation ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations>
 Codes of Practice ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice>

Victoria

Occupational Health and Safety Act 2004
 Occupational Health and Safety Regulations 2017
 Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>
 Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice>

New South Wales

Work Health and Safety Act 2011
 Work Health and Safety Regulations 2025
 Legislation NSW: <https://www.safework.nsw.gov.au/legal-obligations/legislation>
 Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-practice>

Western Australia

Work Health and Safety Act 2020
 Work Health and Safety Regulations 2022
 Legislation Western Australia: <https://www.commerce.wa.gov.au/worksafe/legislation>
 Codes of Practice WA: <https://www.commerce.wa.gov.au/worksafe/codes-practice>

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011
 Work Health and Safety (National Uniform Legislation) Regulation 2011
 Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>
 Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-practice>

Safe Work Australia Links

Law and Regulation (All States): <https://www.safeworkaustralia.gov.au/law-and-regulation>
 Model Codes of Practice: <https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice>

South Australia

Work Health and Safety Act 2012 (SA)
 Work Health and Safety Regulations 2012 (SA)
 Legislation for SA: <https://www.safework.sa.gov.au/resources/legislation>
 Codes of Practice for SA: <https://www.safework.sa.gov.au/workplaces/codes-of-practice#COPs>

Model Codes of Practice

- Managing noise and preventing hearing loss at work
- Confined spaces
- Labelling of workplace hazardous chemicals
- Managing risks of hazardous chemicals in the workplace
- Welding processes
- First aid in the workplace
- Managing the risk of falls at workplaces
- Hazardous manual tasks
- Managing the risk of falls in housing construction
- Managing electrical risks in the workplace
- Demolition work
- Excavation work
- Work health and safety consultation, cooperation and coordination
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work

Tasmania

Work Health and Safety Act 2012
 Work Health and Safety (Transitional and Consequential Provisions) Act 2012
 Work Health and Safety Regulations 2012
 Work Health and Safety (Transitional) Regulations 2012
 Legislation for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations>
 Codes of Practice for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice>

Details of permits, licenses or access required by regulatory bodies (add or delete as required):

- Permits from local council
- Authorisation to commence work
- Any required documents.