

## Application Of Geotextiles Risk Assessment

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:	

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			<b>Elimination</b> Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<b>Substitution</b> 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.	<b>Engineering</b> Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	<b>Administrative</b> Change	
								<b>PPE</b>	
<b>Risk Rating &amp; Required Action:</b>								<b>Notes on Hierarchy of Controls:</b>	
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.								Remember to apply controls in the preferred order shown by the coloured pyramid:	
3H Review and approve additional controls before task starts. Senior supervisor sign-off needed.								1. <b>Eliminate</b>	
2M Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.								2. Substitute	
1L Proceed, following standard operating procedures. Monitor and keep records.								3. Isolate	
								4. Engineering	
								5. Administrative	
								6. PPE	
<b>Consequence Scale:</b>								Always document <b>why</b> a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
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				
								<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	

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. Preparation	Slips and trips, Manual handling injuries	3H	<ul style="list-style-type: none"> <li>- Conduct site induction for all workers involved in geotextile application.</li> <li>- Ensure clear pathways and clean work areas to prevent slips and trips.</li> <li>- Provide manual handling training specific to geotextile materials.</li> <li>- Use appropriate lifting techniques during handling of geotextile rolls.</li> <li>- Implement team lifting for rolls exceeding recommended manual handling limits.</li> <li>- Conduct a pre-task risk assessment to identify specific hazards.</li> <li>- Provide and enforce the use of appropriate PPE (gloves, boots).</li> <li>- Ensure work area is well lit and signage posted where necessary.</li> <li>- Establish a communication plan for the team.</li> <li>- Ensure emergency procedures are in place and understood by all staff.</li> </ul>	2M
2. Delivery of Materials	Traffic hazards, Dropping loads	3H	<ul style="list-style-type: none"> <li>- Ensure all delivery vehicles follow site traffic management plans.</li> <li>- Have trained personnel for unloading materials from delivery vehicles.</li> <li>- Secure loads properly during transport and before unloading.</li> <li>- Use mechanical aids to lift and move heavy materials when possible.</li> <li>- Allocate safe zones for pedestrians away from unloading areas.</li> <li>- Conduct checks on vehicle conditions and mechanical aids before use.</li> <li>- Ensure all site personnel are wearing high-visibility clothing.</li> <li>- Establish a communication protocol between drivers and site personnel.</li> <li>- Post appropriate signage for delivery and unloading areas.</li> <li>- Provide clear instructions to delivery drivers about site procedures.</li> </ul>	2M
3. Site Inspection	Unstable ground, Environmental hazards	4A	<ul style="list-style-type: none"> <li>- Conduct a thorough site inspection before commencing work.</li> <li>- Identify and mark areas with potential unstable ground or hazards.</li> <li>- Implement measures to stabilise soft ground areas if necessary.</li> <li>- Provide appropriate PPE for site inspection team (e.g. boots, hard hats).</li> <li>- Document and communicate identified hazards to all workers.</li> <li>- Utilise geotechnical reports where available to assess site stability.</li> <li>- Restrict access to areas identified as high-risk.</li> <li>- Train workers on recognising environmental hazards such as wildlife.</li> </ul>	2M

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			- Schedule inspections during times of low environmental risk (e.g. no severe weather). - Implement emergency protocols for potential environmental incidents.	
4. Geotextile Roll Placement	Incorrect roll placement, Manual handling injuries	3H	[REDACTED]	2M
5. Overlapping and Alignment	Misalignment, Tripping hazards	3H	[REDACTED]	1L
6. Securing Edges	Improper edge securing, Bodily strain	3H	[REDACTED]	2M

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7. Anchoring	Inadequate anchoring, Equipment failure	4A		2M
8. Cutting Geotextile	Cutting injuries, Material wastage	3H		2M
9. Quality Control Checks	Incomplete checks, Defective installation	3H		1L

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10. Finishing and Clean Up	Leftover debris, Erosion	3H		1L
11. Transportation of Tools and Equipment	Equipment damage, Road traffic accidents	3H		2M
12. Documentation and Reporting	Inaccurate records, Delays in reporting	2M		1L

protocols, Insufficient policies

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15. Client and Stakeholder Communication	Miscommunication, Unrealistic expectations	2M	<ul style="list-style-type: none"> <li>Establish clear communication channels and protocols.</li> <li>Conduct regular meetings and updates.</li> <li>Set realistic expectations from the start.</li> <li>Use clear and concise language.</li> <li>Document all communications.</li> <li>Assign a dedicated communication point of contact.</li> <li>Use visual aids to clarify complex information.</li> <li>Encourage questions and feedback.</li> <li>Provide training on communication tools and processes.</li> <li>Implement a feedback loop for continuous improvement.</li> </ul>	1L



## 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 IF 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 2017

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) Regulations 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>

### 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

### 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>

### 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.