

## Perform Composite Bonding Risk Assessment

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

## THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THE 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.	<b>Isolation</b> 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. <b>Substitute</b>		
1L Proceed, following standard operating procedures. Monitor and keep records.						3. <b>Isolate</b>		
						4. <b>Engineering</b>		
						5. <b>Administrative</b>		
						6. <b>PPE</b>		
<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			
						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. Review of Composite Materials	Improper identification of material properties, Inadequate storage conditions	3H	<ul style="list-style-type: none"> <li>- Ensure all material specifications are obtained and reviewed from supplier.</li> <li>- Implement a material verification process.</li> <li>- Conduct training for staff on material property identification.</li> <li>- Regularly audit material storage conditions for compliance.</li> <li>- Label all materials clearly with appropriate safety signs.</li> <li>- Create a material safety data sheet for reference.</li> <li>- Store materials in a climate-controlled environment.</li> <li>- Regular checks on storage areas for integrity and compliance.</li> <li>- Ensure materials are stored off the ground and away from direct sunlight.</li> <li>- Use automated storage systems where possible to minimise human error.</li> </ul>	2M
2. Personal Protective Equipment Usage	Inadequate PPE, Allergic reactions to certain PPE materials	3H	<ul style="list-style-type: none"> <li>- Establish a comprehensive PPE program.</li> <li>- Provide training on correct PPE usage and maintenance.</li> <li>- Conduct testing for respirators and other fitted PPE.</li> <li>- Provide alternatives for common allergens in PPE.</li> <li>- Regularly inspect PPE for damage and replace as necessary.</li> <li>- Enforce PPE compliance at all times.</li> <li>- Provide PPE options for various tasks and environments.</li> <li>- Document PPE requirements for each task.</li> <li>- Store PPE in clean and accessible locations.</li> <li>- Encourage feedback on PPE comfort and usability.</li> </ul>	1L
3. Surface Cleaning and Preparation	Chemical exposure, Slip hazards from cleaning residues	3H	<ul style="list-style-type: none"> <li>- Use non-toxic and biodegradable cleaning agents where possible.</li> <li>- Train staff on safe handling and application of cleaning agents.</li> <li>- Ensure ventilation systems are in place to disperse fumes.</li> <li>- Use spill kits and absorbent materials to manage leaks.</li> <li>- Implement a 'wet floor' signage policy during cleaning.</li> <li>- Conduct slip resistance testing on surfaces regularly.</li> <li>- Develop a standard operating procedure for cleaning tasks.</li> <li>- Ensure PPE use while cleaning.</li> </ul>	2M

<p>Excessive fumes, leading to weak</p>	<p>4A</p>	<p>- Enforce regular inspection and mopping of wet areas</p>
<p>Application, Burns</p>	<p>4A</p>	

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7. Inspection and Testing of Bonds	Undetected weak bonds, Equipment failure during testing	4A		2M
8. Handling and Storage of Finished Components	Manual handling injuries, Damage to components during storage	4A		2M
9. Waste Management	Ecosystem contamination from hazardous waste, Unapproved disposal methods	3H		2M

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10. Emergency Procedures	Inadequate emergency response, Panic during emergencies	4A		1L
11. Training and Competency	Lack of knowledge of procedures, Poor understanding of safety protocols	3H		1L
12. Process Documentation	Inconsistent procedural documentation, Outdated safety standards	3H		1L

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13. Communication Protocols	Miscommunication of safety information, Unclear emergency messages	3H		1L
14. Equipment and Tool Maintenance	Malfunction of bonding equipment, Electrical hazards	4A		2M
15. Environmental Monitoring	Chemical spills impacting the environment, Air quality issues	4A		2M

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16. Quality Control Checks	Missed defects in quality checks, Incorrect quality parameters	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
17. Customer Feedback and Improvement	Ignoring customer feedback, Deficient customer communication	2M	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	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.