

TECHBOARD™ ULTRA SCAFFOLD PLANK

INSTALLATION SPECIFICATIONS

The Safer, Smarter Scaffold Planks
That Costs Less and Lasts Longer



INSTALLATION SPECIFICATIONS TECHBOARD™ ULTRA



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INSTALLATION SPECIFICATIONS

TECHBOARD™ ULTRA



TECHBOARD™ ULTRA BENEFITS

Long Lasting	TechBoard™ Ultra will not delaminate, swell, warp, twist or crack and is not adversely affected by moisture or humidity
Cost Effective	As TechBoard™ Ultra lasts 3-4 times longer than traditional LVL planks it will be around 40% cheaper over the life of the product
Non-flammable	TechBoard™ Ultra is fabricated with self-extinguishing PVC and is MDG3608 (Underground mining standards) compliant in oxygen / smoke toxicity and ignitability
Recyclable	Made from 'Best Practice' PVC, TechBoard™ Ultra has an entirely circular life-cycle, with old product able to be ground down and recycled into new TechBoard™ Ultra
Safer	Splinter-free and featuring high underfoot grip, TechBoard™ Ultra planks have inherent ultimate strength and significantly less risk of splitting
Transportability	TechBoard™ Ultra can be easily shipped and transported and meets AQIS regulations
Fully Compliant	NATA tested and compliant to AS/NZS 1577:2018 230kg WLL Loading at 1.8m span
Chemically Inert	TechBoard™ Ultra is both waterproof and resistant to acids and caustics
Storage	As TechBoard™ Ultra does not need to be kept dry, it is easy to maintain and store
Accessories	A large range of specifically designed and made accessories are available as part of the TechBoard™ Ultra system
Weight	TechBoard™ Ultra is 6.6kg/m or 19.8kg for standard 3.0m planks
End-Caps	Sealed with rigid PVC end-caps using a polymer heat-welder

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PRODUCT INSTALLATION

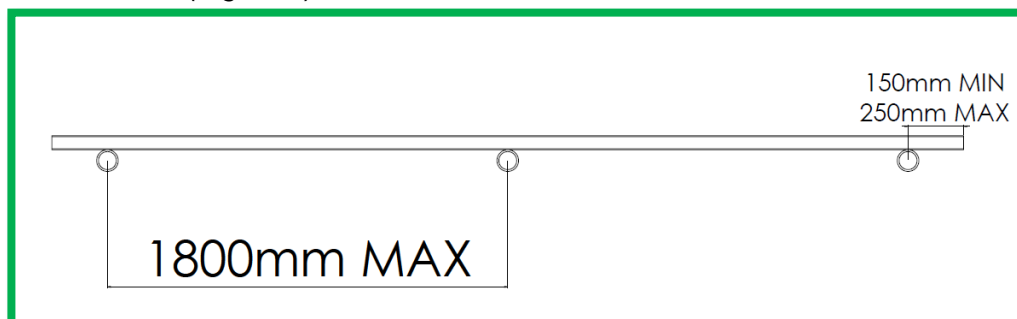
TechBoard™ Ultra is designed to be used as an alternative to LVL and hardwood planks in scaffold systems having similar dimensions – 230mm wide x 39mm thick. Available in a range of lengths, from 0.6m-3.9m in 0.3m increments, with 3.0m the most common length.

1. Installation

- ▶ Scaffolding should only be installed by suitably experienced and certified personnel and all due care must be taken when installing TechBoard™ Ultra as part of a scaffolding system.
- ▶ TechBoard™ Ultra should only be installed in accordance with all relevant Work Health and Safety standards and regulations as well as these installation specifications.
- ▶ Ensure appropriate personal protective equipment is utilised when handling TechBoard™ Ultra.
- ▶ Only specified for use as a replacement to timber / LVL based scaffold planks.

2. Load Limits

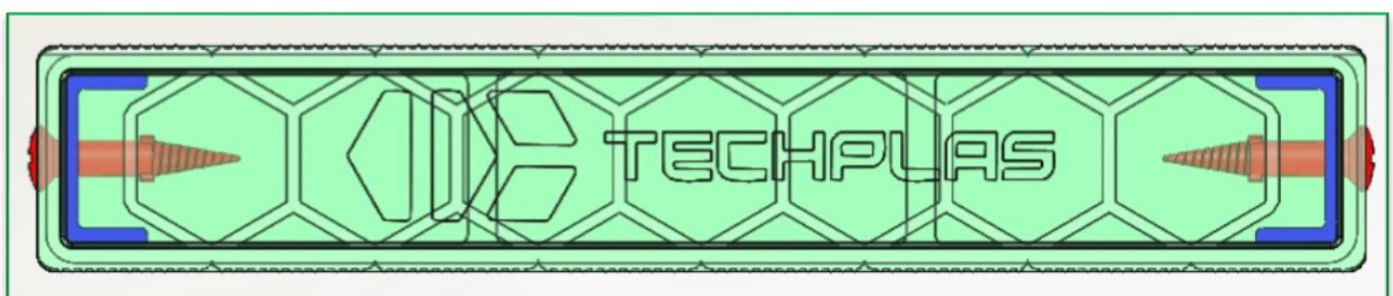
- ▶ Do not overload TechBoard™ Ultra. In accordance with AS/NZS 1577:2018 and AS/NZS 1576.1:2019, **maximum support span is 1.8m** with overhang <150mm and working load limit is **WLL (UDL) = 230kg**.
- ▶ TechBoard™ Ultra nominal weight for **3.0m** product is **19.8kg**
- ▶ Ensure maximum support distance at 1.8m as shown in the following diagram for 3.0m TechBoard™ Ultra (Figure 2).



TechBoard™ Ultra Span – Tube and Fit (Figure 2)

3. Design Safety

- ▶ TechBoard™ Ultra is extruded from engineered PVC polymer.
- ▶ TechBoard™ Ultra is reinforced with 2 x G300 galvanized steel channels (blue below).
- ▶ Steel channels are secured with 4 x galvanized, winged 45mm M6 Tek-Screws (red below).
- ▶ Solid PVC end-plates are polymer heat-welded to secure the TechBoard™ Ultra.



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4. Carrying

- ▶ Do not exceed regulatory safe carrying limits.
- ▶ Do not drop or throw boards from height.

5. Modification and Damage

- ▶ TechBoard™ Ultra may be screwed into, to secure timber / plywood attachments as necessary.
- ▶ Immediately cease to use and replace TechBoard™ Ultra that has experienced major damage.
- ▶ Do not cut or mill – enquire with Tech Plas Extrusions Pty Ltd (TechPlas) for alternate plank sizes and availability.
- ▶ Monitor condition of surface grip and recycle planks if **both** friction surfaces are worn down to the plank body on a surface area greater than 50% of the overall surface.
- ▶ Do not remove Tek-screws or end-caps.
- ▶ Major damage (noted as damage occurred during non-standard usage) to TechBoard™ Ultra planks will void the limited manufacturer's warranty.

6. End of Life

- ▶ Contact TechPlas for PVC and steel recycling options – TechBoard™ Ultra is 100% recyclable at the TechPlas NSW facility.

7. Restraining Methods

- ▶ It is recommended that, as a minimum, TechBoard™ Ultra be restrained by the use of commonly available board retaining clips, wire lashing or plank retaining strips at bay ends.



TechBoard™ retaining clips with plank (Figure 3)

8. Risk and Hazard Mitigation

- ▶ TechBoard™ Ultra is supplied with sealed end-caps. End caps can also be purchased individually and fixed on site utilising a PVC suitable, heat welding gun and Rigid PVC welding rods.
- ▶ TechBoard™ Ultra will not ignite or sustain a flame. Welding slag and grinding sparks have minimal effect on TechBoard™ Ultra. However, avoid using TechBoard™ Ultra in environments above **80°C**.
- ▶ Avoid using TechBoard™ Ultra in environments less than **-15°C**.
- ▶ Consult TechPlas regarding the use of TechBoard™ Ultra in **highly** acidic and caustic environments.
- ▶ It is recommended that **TechPlas Safety Ramp** accessory be used when lapping TechBoard™ Ultra to minimise trip hazards. To mitigate potential static danger, the TechPlas conductive accessory range should be used, in particular for Explosive Class 1 and Class 2 environments. See the TechPlas Static Control Declaration for further information and details.

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TRANSPORT, STORAGE AND MAINTENANCE

1. Shipping and Transport

- ▶ TechBoard™ Ultra should be shipped in Packs supplied by TechPlas or with the planks supported every metre or stored flat.
- ▶ Where supports are used, these should be even sized materials.
- ▶ Do not use steel strapping without Plastic Load Restraint Angles (available from TechPlas).
- ▶ Restraint chains should not be used to secure TechBoard™ Ultra packs during transportation instead, strapping is the recommended method of restraint and should be located immediately over dunnage (as shown in Figure 4 below).



TechBoard™ load strapping example (Figure 4)

- ▶ A Standard Pack of TechBoard™ Ultra (50 x 3.0m boards) weights approximately 1100kg inclusive of dunnage and packaging.
- ▶ When transporting a pack of TechBoard Ultra forklift tines should be set at full width.

2. Storage and Maintenance

- ▶ TechBoard™ Ultra can be stored in wet or in damp conditions.
- ▶ If stored outside, limit TechBoard™ Ultra exposure to direct sunlight. Maintain plastic wrapping as supplied by TechPlas or keep TechBoard™ Ultra in the shade where possible.
- ▶ It is recommended that any dust, concrete or site residue on TechBoard™ Ultra be cleaned regularly with a standard (1400W+) pressure washer. If necessary, detergent based cleaning agents and rough brushes can also be used.
- ▶ TechBoard™ Ultra is best recycled in a clean state at end-of-life.

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COMPLIANCE AND REGISTRATIONS

Mechanical Compliance	Institution	
<ul style="list-style-type: none"> AS/NZS1577:2018 BS2482:2009 ANSI A10:2011 EN 12811-1:2004 MDG3608-Coal Mines <p><u>Additional</u></p> <ul style="list-style-type: none"> Fire & Smoke Suppressant Anti-static Accessories High-Grip Surface Chemical Resistant Recyclable PVC Polymer (3) Cyclical weatherability: deflection and impact (-12°C to 60°C) 	<ul style="list-style-type: none"> ALS Global AZUMA Labs MSTC NSW LMATS Trinity Scientific Deakin University Slip Test Australia 	<p>Copies of all authorized reports available from TechPlas on request</p>

Category	Institution	Description
Environmental	Vinyl Council Australia	PVC Stewardship Best Practice Manufacturing
Legal	International Patent Office	PCT/AU2017/000053 Polymer Scaffold Board International Design Registration
	Australian Patent Office	Innovation Patent – 2018100301 Polymer Walkway Accessories

Important Notice

While the products in this document possess the characteristics described, no representation is made that the products will be effective in all locations and circumstances. Much depends on building design, construction practices and the environment in which the products are used and the relevant standards and codes which apply.

Statements about the attributes and performance characteristics of the products are made on the basis that the products are properly stored, handled, installed, used and maintained in their relevant application. You should not rely solely on this document when using the products. TechPlas recommends obtaining professional building and/or scaffolding advice which takes into account particular site circumstances and conditions. TechPlas is not involved in, and does not assume responsibility for, the selection, installation or maintenance of our products in situ.

Failure to install TechPlas products in accordance with applicable building and/or scaffolding standards, codes and regulations, TechPlas requirements and instructions may lead to personal injury, loss or damage, and may adversely affect the performance of the products.

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5 YEAR LIMITED MANUFACTURER'S WARRANTY

The TechPlas Extrusions Pty Ltd, Limited Manufacturer's Warranty (Warranty) applies in addition to statutory guarantees available under the Australian Consumer Law, and provides for the replacement TechBoard™ Ultra planks should a TechBoard™ Ultra plank fail, TechPlas will cover replacement and transport (to and from original dispatch site).

1. Product Warranty for the TechBoard™ Ultra Scaffolding Planks

Subject to the terms in this document, for product purchased from TechPlas from 1st of January 2020 onward TechPlas will, for a period of five (5) years from the date of original manufacture (as marked on each plank) authorise a free of charge replacement (at TechPlas' discretion) of the plank(s), if in TechPlas' opinion, it needs replacement because of a manufacturing or material defect in the TechBoard™ Ultra plank. This Warranty is only applicable to product utilised under normal service conditions as described within these Installation Specifications.

2. Warranty Transfer

The Warranties provided in this Limited Manufacturer's Warranty are not transferable. This means, that when sold "second-hand" or ownership is transferred on-site the planks are no longer covered by this Warranty. The Warranty period runs from the original date of manufacture.

3. General

This Warranty only applies within Australia. to products purchased within Australia.

4. How this Warranty applies

TechBoard™ Ultra presented for replacement will be analysed (either through written, photographic / video or physical review) by TechPlas staff to ensure that failure has occurred due to a manufacturing or material defect (decided at TechPlas' discretion). If necessary, the product in question will be recalled to a TechPlas manufacturing site for evaluation. If the claim is valid, the product will be replaced with new stock, which can take up to six (6) weeks from the time the Warranty claim is accepted.

5. This Warranty does not cover:

- a. Product installed and utilised outside Australia;
- b. Damage and/or failure caused by product installed in a location / environment or in a manner that exceeds normal operating conditions and these Installation Specifications;
- c. Damage and/or failure caused by installation not in accordance with these Installation Specifications or other relevant manuals, operation manuals, maintenance instructions or TechPlas instructions;
- d. Product, which has been subject to alterations, misuse, abuse, neglect and accident;
- e. Damage and/or failure caused by external impact such as flying objects or external stress beyond design specifications;
- f. Fair wear and tear;
- g. Damage and/or failure caused by plant or additional on-site equipment including, but not limited to, vehicles, forklifts, hot-works etc.

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6. Statutory Guarantees Under Australian Consumer Laws

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

7. How to Claim

To make a claim against this Warranty, you must contact TechPlas directly within 30 days of noticing the alleged defect within the applicable Warranty period. TechPlas can be contacted 8.30am-4.30pm (AEST) via (02) 9636 6755 or enquiries@techplas.com.au. Any claims must be accompanied by a copy of the original sales invoice as the proof of purchase and an image of the manufacture time and date (as printed on the product). The customer will need to also be able to show proof of the alleged failure/ damage, should TechPlas request it, such proof may be written, photographic / video or conducted in-person by TechPlas staff.

8. Warranty claim complaints handling process

Customers or partners not satisfied with any determination of any Warranty claim by TechPlas may write to Tech Plas Extrusions Pty Ltd, 321 Wentworth Avenue, Pendle Hill NSW 2145 or email: enquiries@techplas.com.au, stating:

- Details of the relevant Warranty claim and product (including purchase date and claim date);
- Detailed reasons why they are not satisfied with the determination, and
- Provide any supporting documentation they consider relevant.

Within a reasonable time of receiving any such complaints, TechPlas will review the original decision and advise the complainant in writing of the outcome of that review.

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MATERIAL SAFETY DATA SHEET

Material:	uPVC Profile
Product Name:	TechBoard™ Ultra
Chemical Name:	UnPlasticised Poly-Vinyl Chloride
Supplier:	Tech Plas Extrusions Pty Ltd

Chemical Composition:	Polyvinyl Chloride mixture		
	Ingredients	CAS Number	Proportion (%)
	Polyvinyl Chloride	9002-86-2	50-85
	Hydrated MG Silicate		10-30
	Stabiliser + Fire Retardants		1-5
	Impact + Modifiers		1-5

This Material is not Hazardous according to the criteria set by Work Safe Australia.

Physical Properties:	STEEL REINFORCED TECHBOARD™
Flexural Value (EI) Loading and Span	1.09 x 10¹⁰ Span: 1.8m WLL: 230Kg
Components	TechBoard™ extruded thermoplastic PVC & G300+ Cold Roll Steel

Special Protection	
Handling	Use appropriate gloves and manual handling techniques as grip could cause potential abrasions.

Other Information	Please contact Tech Plas Extrusions Pty Ltd
Approved Contact	Andrew Swann
Title / Position	Research & Development Manager
Address	321 Wentworth Avenue Pendle Hill, NSW 2145