

LVL
SCAFFOLD
PLANKS

hyPLANK

New Zealand Edition
August 2009



hyPLANK®

hyPLANK® is a strong yet lightweight Laminated Veneer Lumber scaffold plank. The structural uniformity of LVL combined with the strict quality control of all processes of manufacture ensures hyPLANK is safe and fit for purpose as scaffold planking.

The structural reliability of hyPLANK makes it ideal for use in place of ordinary timber planks. Use of hyPLANK is also advantageous:

- For corrosive environments, particularly in the chemical industries and for marine applications
- Where sparks arising from metal on metal contact may present a hazard for safety
- Where the electrical insulation properties of hyPLANK are another safety advantage
- Where the scaffolding layout precludes use of modular systems

Features include:

- Individually proof tested
- Tough and long lasting
- Lightweight and versatile
- 100% renewable NZ plantation pine

hyPLANK® specification

hyPLANK is structural Laminated Veneer Lumber (LVL) manufactured in accordance with AS/NZS 4357:1995 Structural Laminated Veneer Lumber and Product Certified by the Engineered Wood Products Association of Australasia to equal or exceed the performance claims specified in this brochure.

Size

Width: 230mm
 Thickness: 42 mm
 Lengths: 3.0, 3.6 & 4.2 m

Approximate mass 5.7 kg/m

Veneer

Thickness	3.2 mm	(Nominal)
Species	Radiata pine	
Quality	D	AS/NZS 2269
Joints	Scarf	

Moisture Content 7%-15%

Dimensional Tolerances

Length	-0, + 6 mm
Width	-0, + 3 mm
Thickness	-0, + 3 mm

Adhesive Phenolic AS 2754.1

Bond Type A (Marine) AS 2098.2
 AS 2754.1

Finish Unsanded faces, sawn edges
 Arrises removed by chamfering

Marking

Each plank has a permanent indent brand along the edge with the following information:

- hyPLANK – for identification
- Proof tested – indicating compliance with performance requirements
- AS/NZS 4357 – LVL manufacturing standard
- PAA JAS-ANZ – The Plywood Association of Australasia Product Certification marks



Quality control and product certification

hyPLANK is manufactured in a quality controlled process as required by AS/NZS 4357. Compliance with process based quality control requirements is third party audited by the Engineered Wood Products Association of Australasia (EWPA), and the audits, together with end product testing and market inspection used as the basis for Product Certification by the EWPA as a JAS-ANZ accredited Product Certification body. JAS-ANZ stands for the government established "Joint Accreditation System of Australia and New Zealand" which exists as the peak organisation for accreditation of Product Certification bodies.

Applicable design standards

The design of scaffold components is to comply with the Approved Code of Practice for the Safe Erection and Use of Scaffolding, published by OSH. Designers and users of hyPLANK should consider the requirements of:

- Health and Safety in Employment Act 1992
- AS/NZS 4576:1995, Guidelines for Scaffolding
- SARNZ Best Practice Guidelines for Scaffolding

hyPLANK® proof testing

Before despatch, each hyPLANK is individually proof tested to verify that the strength of each hyPLANK exceeds twice the bending moment arising from the application of the working loads given in Table 1 for the corresponding maximum spans

Table 1. Maximum span of hyPLANK® for duty live loads*

Platform Live Load Category	Maximum Span (m)	Maximum Working Loads for hyPLANK (kg)
Light-duty	2.4	225 kg total (inc. 100 kg max concentrated load)
Medium-duty	2.0	285 kg total (inc. 150 kg max concentrated load)
Heavy-duty	1.8	285 kg total (inc. 200 kg max concentrated load)

* As specified in the OSH Approved Code of Practice for the Safe Erection and Use of Scaffolding.

Note that maximum span has been determined on the basis of the concentrated load for each duty category at mid-span with the balance of the total load uniformly distributed.

This is a guide recommended by OSH. Spans and loads beyond those stated will require specific design. For further information please call our Technical Helpline.

Care, storage and maintenance

At the time of despatch hyPLANK is suitable for use as a scaffold plank based upon meeting strict performance requirements. Care in the use and storage of hyPLANK will ensure continued safe performance for maximum service life.

Maintenance, entailing regular inspection and strength testing (if required), is necessary to ensure that planks reaching the end of their service life and no longer safe for use are detected and removed from service.

The following recommendations for care in use, storage and maintenance are provided to assist users to maximise service life whilst maintaining required levels of safety.

Avoid damage

hyPLANK may be damaged and rendered unsafe by misuse. Some commonly observed examples of misuse that have resulted in reduced service life provide the basis for the following recommendations:

- Do not use planks over spans greater than those recommended by the scaffold designer
- Do not drop hyPLANK from excessive heights
- Do not drop heavy materials or jump onto hyPLANK
- Do not allow vehicles to drive over hyPLANK
- Do not use hyPLANK as a saw bench - even shallow saw cuts reduce strength
- Take precautions against slag burns from oxy cutting or welding

hyPLANK that has been subjected to any of the above (or other) examples of misuse may be damaged and should be tested to verify continued use. Note that fractures resulting from overload may not be readily apparent by inspection - strength testing may be the only means of detection.

Chemical effects

hyPLANK will be largely unaffected by exposure to moderate strength acids or alkalis (pH range 2 to 10). Strong acids and alkalis will however attack the naturally occurring lignin which binds wood fibre and, in time, cause a reduction in strength. For planks used in these environments, regular strength testing is recommended.

Decay

Generally, scaffold planks in service and subject to the normal wetting and drying from weather will not remain wet for protracted periods. In these circumstances, decay is not likely.

Typically where planks have decayed, this has resulted from wet planks being stored away closely stacked with little or no ventilation. Any circumstance in which planks remain constantly wet for long periods (months) is likely to result in fungal decay.

Planks that show any evidence of fungal decay (such as mould on the surface) should be allowed to dry then strength tested before use.

Recommendations for storage

- Wet planks**
- Stack on level bearers well clear of the ground with spacers (fillets) between each layer
 - Locate stack in a dry, well ventilated area and align fillets with bearers
 - A minimum of three bearers/fillets per layer is recommended
- Dry planks**
- Stored under cover - no special requirement
 - Stored outside - stack as for wet planks and cover to keep dry

Maintenance

Regular inspection is strongly recommended. Any plank subject to trauma or showing any obvious signs of misuse should be withdrawn from use pending verification of strength.

In-service strength testing

The Impact Test for scaffold planks described in AS/NZS 4576 may be used as a convenient field method for assessing the suitability or otherwise of individual suspect planks. The test is not suitable for testing a number of planks as part of an ongoing quality assurance process to verify their suitability for use. In this circumstance a machine-based testing procedure is more appropriate. Please call our Technical Helpline for further advice.



DISCLAIMER

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Carter Holt Harvey Woodproducts reserves the right to change the information contained in this document without prior notice.

It is important that you call 0800 808 131 to confirm that you have the most up to date information available.

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FUTURE-PROOF BUILDING



 **CarterHoltHarvey**
Woodproducts New Zealand

173 Captain Springs Rd, Onehunga
Private Bag 92-106, Auckland 1142
Freephone 0800 808 131
Freefax 0800 808 132
Email engineerszone@chhwoodproducts.co.nz

www.chhwoodproducts.co.nz