



100% recycled plastic & rubber composite

Affordable - Low trip cost

Long lifespan & reusable

Engineered strength

Micro sawtooth contact surfaces with exposed rubber particles for grip

Never rot, rust or splinter

Lightweight & easy to hold

Waterproof & termite proof

Plastic Forests I-90 Dunnage is ideal for a wide range of transport & storage applications

- Made in Australia from 100% recycled plastic and 100% recycled rubber - no wood flour
- Unique I shape is strong, light weight and easy to grip
- Long lifespan and re-useable - low trip cost
- Independently NATA tested for coefficient of friction, compressive strength and compressive stress
- Will not rot, crack, split or rust - no splinters!
- Waterproof and termite proof
- Easily cleaned and hygienic - no mould
- Impervious to moisture and most common chemicals
- Engineered strength, consistent size and weight
- Not chemically treated (like CCA treated timber)
- Micro sawtooth texture on top and bottom surfaces with exposed rubber particles for increased grip
- 2 year service interval
- Recyclable at end of life
- Lengths up to 1200mm Colour: black/charcoal
- See Specification Sheet for technical information
- Options:
 - Embossed corporate branding
 - Custom lengths & colours
 - Hi vis Class 1 reflective tape

TECHNICAL REPORT conducted by ExcelPlas Polymer Testing

Coefficient of Friction (CoF) - Plastic Forests Plastic / Rubber Composite I-90 Dunnage vs Timber Block against checker plate*

	Coefficient of Static friction ((N/g)/kg)	Coefficient of Kinetic friction ((N/g)/kg)
Plastic Forests Dunnage I-90	Mean = 0.672 – Range 0.548 - 0.744	Mean = 0.51 – Range 0.474 – 0.555
Pine Solid Timber Block	Mean = 0.576 – Range 0.547 - 0.637	Mean = 0.35 – Range 0.309 – 0.394

*Testing is indicative: CoF will vary according to the steel type, age, temperature, surface texture, level of surface weathering etc

Compressive Strength - Plastic Forests Plastic / Rubber Composite I-90 Dunnage *

	Maximum Compressive Strength (N)	Maximum Compressive Stress (MPa)
Plastic Forests Dunnage I-90	Best case: 36,458 (N) at 23°C	Best case: 20.4 MPa @ 23°C
	Best case: 32,415 (N) at 35°C	Best case: 15.7 MPa @ 35°C
Radiata Pine Timber	http://www.fpc.wa.gov.au/node/906	Green:19 Dry: 42

WARNINGS

Dunnage must be always used in a capital I orientation and be placed onto a stable, suitable, non-slip floor or surface before use • For use on flat surfaces only. Ensure all surfaces are free of loose materials such as dirt, oils etc. • Ensure the load is spread over the whole surface area of the dunnage • Not to be used for point-to-point loading. • Ensure that the surface can carry the intended load • Not to be used for steel pipes or smooth surfaced steel without a full risk assessment • Always perform your own risk assessment before using this product • Always know the weight being supported • Never exceed the maximum loading • Under no circumstances does the maximum loading mentioned above take into consideration point loading or uneven weight distribution of the supported load.

**** NOT TO BE USED FOR SUPPORTING MOBILE PLANT / EQUIPMENT / MACHINERY ****

SERVICE & RE-CERTIFICATION - Plastic Forests' Plastic/ Rubber Composite I-90 Dunnage has a design life of many years. However, a service interval of up to 2 years applies from the date of manufacture before factory inspection and possible recertification for another 2 years is required. The Service Due Date stamped on each item acts as a guide only, as the functional life is dependent on factors outside the control of the manufacturer such as usage, storage, environmental and operational conditions.

Dunnage should be visually inspected at each time of use for signs of spine deformation/compression (indicating overloading has occurred), damage, cracks, deterioration or penetration; worn, damaged, deformed or smooth contact face areas which may result in a loss of grip; or any other damage due to impact, rough treatment, or inappropriate use. Dunnage exhibiting such damage or deterioration, or dunnage past its 'Service Due Date' should be immediately withdrawn from service and returned to Plastic Forests for possible recertification, re-surfacing or end of life recycling back into new I-90 dunnage.

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DISCLAIMER: All information provided in this publication is correct to the best knowledge of the company and is given out in good faith. The information presented herein is intended only as a general guide to the use of such products and no liability is accepted by Plastic Forests Pty Ltd for any loss or damage however arising, which results either directly or indirectly from the use of such information. Users of products made from recycled plastic should recognise the limitations imposed, and in conjunction with the supplier agree on the necessary specification limits. In general, products made from recycled plastic conform to "Fit for Use" criteria. Information and product specifications may change without notice. 12032023 ACN: 147 913 559 ABN: 991 479 13559