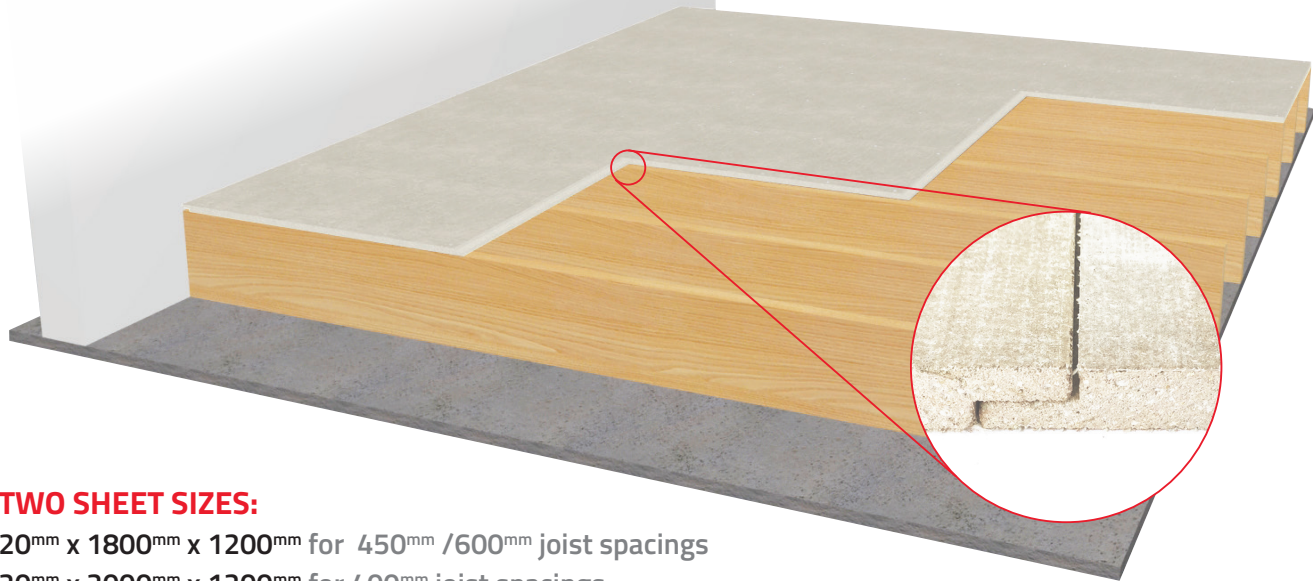


THE NEXT GENERATION MAGNESIUM (MGS₀₄) FLOORING BOARD



MAGLOK™
DRAGONBOARD®

- × NOT particle board
- × NOT strand board
- × NOT fibre cement board
- × NOT plywood



TWO SHEET SIZES:

20^{mm} x 1800^{mm} x 1200^{mm} for 450^{mm} /600^{mm} joist spacings

20^{mm} x 2000^{mm} x 1200^{mm} for 400^{mm} joist spacings

MAGLOK™ DRAGONBOARD® is an engineered “fit for purpose” fibre reinforced Magnesium (MGS₀₄) flooring board substrate



NZ & AU CodeMark certified



Squeak-free



No tile underlay required

Ready to finish



Cost effective

Less than fibre cement, similar to treated structural ply



Easy to lift, carry and install

Manageable sheets in two sizes:

- 20^{mm} x 1800^{mm} x 1200^{mm}
- 20^{mm} x 2000^{mm} x 1200^{mm}

Screw gun, shiplap edge = no noggings



No hazardous materials*

Calcium silica free, formaldehyde free, asbestos free. (*Does contain fibreglass mesh for reinforcing.)



Water resistant

Repels water and will breathe moisture out without losing any structural integrity



Fire proof

Non-combustible, zero flame and smoke spread, 120/120 rated



Mould and insect proof

Inert, inedible, non-toxic and hypoallergenic



Greener

Very environmentally friendly to produce



Diaphragm bracing capacity



Acoustic Rated

Part of the Sound Down rated Acoustic Floor System. IIC 63db. STD 65db.

For sales and technical support, visit www.maglok.co.nz or contact:

Lester Haycock ▪ 021 969 905 ▪ lester@ljmarketing.co.nz

Tim Haycock ▪ 021 60 5553 ▪ tim@tradeinnovations.co.nz

Maglok™ is a New Zealand trademark brand. Global Procurement Supplied Ltd is the New Zealand agent. Trade Innovations Ltd is the sole marketing agent. www.tradeinnovations.co.nz

Dragonboard® is a US patented, UL approved fire resistant, water resistant, mould resistant, high impact interior and exterior construction panel. For further reference please visit :

www.dragonboard.com
www.dragonboards.ca

SHEET SIZES AND COLOUR

Color: Cream/white

1800 x 1200 x 20mm

Suitable for 600mm & 450mm joist spacings

2000x 1200 x 20mm

Suitable for 400mm joist spacings

FRAMING GUIDELINES

Maglok Dragonboard to be installed on construction in accordance with the below NZS standards.

- Construction of timber framing must be in accordance with NZS 3604 – Timber-framed buildings
- Construction of steel framing must be in accordance with NZ standards

It is always advised that the level of supporting framing be checked prior to installation for accuracy to ensure a level platform to install the flooring.

INSTALLATION OF SHEETS

No glue is required between the sheet and the joist (unless in a fire rated floor or diaphragm floor)

The 1800^{mm} and 2000^{mm} long sides of the sheets are ship lapped to avoid the use of nogs.

The ship lap is to be glued. Recommended glue is Selleys Liquid nails HEAVY DUTY

The 1200^{mm} ends of the sheets must be joined on the center of the joist

Sheets are fitted SMOOTH SIDE UP. However, to save waste, to complete the floor the sheet can be reversed to accept the ship lap

Sheets can be fitted to a square or staggered (brick pattern) layout, but must be staggered for tiled or vinyl finishes.

Where waterproofing is required, ensure butt joints have a 2mm cap between them. These are filled by the waterproofing system prior to the application of the primer and waterproofing membrane.

DETAILED INSTALLATION SPECS FOR:

- Water proofing and tile installation
- Vinyl sheeting installation
- Vinyl planks, cushion backed vinyl, timber flooring
- Carpet

Are available online: www.maglok.co.nz

FIXINGS & LOCATIONS

Maglok Dragonboard (Mgso4) does NOT require stainless fixings. Use corrosion protected cement board type fixings (grade3 galv)

Fixing to timber – Recommended Simpson Strong-Tie 8G x50mm WSNTLG2SA collated screws or single screws.

Fixing to steel – Recommended Simpson Strong-Tie 10G x50mm CBSDGL158SA collated screws

Fixing for fire rated floors – refer to technical information online at www.maglok.co.nz.

Ensure Fixings are located:

- 12mm min from all edges/butt joints
- 50mm min from the Corners
- 200mm centers along the joists

SITE STORAGE OF SHEETS

Sheets should be kept under a cover if long periods between delivery and installation. Dry sheets are easier to lay and weigh less.

Like many materials, Maglok Dragonboard will absorb moisture during construction. This will have no effect on the performance of the board and it will dry to its normal weight.

SPAN & LOADING GUIDELINES

PHYSICAL CHARACTERISTICS

Flexural modulus	0.93 x 106 psi	ASTM D6109
Flexural strength	1295 psi	ASTM D6109
Compressive strength	3000 psi	ASTM C684
Shear strength	391 psi	ASTM D6109
Flamespread	0	ASTM E84
Smoke developed	0	ASTM E84
Smoke density	None	ASTM E662 not req.
Moisture content	8%	GB/T 160-1997 (China)
Impact resistance	1.65 ft/lb-in of notch	GB/T 7019-1997 (China)
Thermal insulation	R-value - 1.2/inch	GB/T 7019-1997 (China)
Fungus/mold	Non-nutrient	ASTM G21
Smoke	Nontoxic	ASTM E662

LOAD FOR MAXIMUM ALLOWABLE STRESS

Panel	12" (305 ^{mm}) oc	16" (406 ^{mm}) oc	24" (610 ^{mm}) oc
7/16" (11.1 mm)	1366 psf	751 psf	336 psf
9/16" (14.3 mm)	2609 psf	1470 psf	654 psf

Above recommendations based on a maximum allowable flexural stress of 1000 psi.

IMPACT TESTING

Drop height	Unclamped edges	Clamped edges
12" (305 mm)	Hairline cracking	Hairline cracking
6" (152 mm)	Superficial cracking	Superficial cracking

DISTRIBUTED LIVE LOADS

Deflection	Joist Spacing			
	12" (305 ^{mm})	16" (406 ^{mm})	19.2" (488 ^{mm})	24" (610 ^{mm})
L/240	924 psf	393 psf	225 psf	110 psf
L/360	609 psf	257 psf	149 psf	81 psf
L/480	462 psf	193 psf	112 psf	62 psf

PANEL SHEAR

7/16" (11.1 mm) panel	461/foot
9/16" (14.3 mm) panel	646/foot
3/4" (19.1 mm) panel	1200/foot

Above recommendations based on a safety factor of 4. The use of a T-shaped spline 1/2" (12.7 mm) high with 1" (25.4 mm) wings on both sides is recommended for panels 9/16" (14.3 mm) thick, or heavier, used for subflooring. Contact DragonBoard for suggested materials.

RESPIRATORY AND EYE PROTECTION: Wearing of dust masks, eye protection, and ear protection is recommended when cutting or drilling Maglok Dragonboard. These should be used in compliance with the BCA and ASTM standards. **HAZARD:** Maglok Dragon contains fiberglass reinforcing mesh.