DAGMAT®

WOOL GEOTEXTILES
PRODUCT DATA & GUIDES

v JUL2026



BENEFITS

APPLICATIONS & DATA

INSTALLATION

FIXING PEGS

WETLANDS

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DAGMAT® WOOL GEOTEXTILES BENEFITS

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Dagmat is a high-performance wool geotextile, designed to meet the evolving demands of modern civil and environmental projects. The unique properties of wool provide benefits and advantages that make it the ideal biodegradable geotextile.

Dagmat is 100% wool, featuring a blend of NZ wool and imported brown wool. This supports local farmers, while creating an earthy brown colour to blend into the environment, as well as optimising performance, consistency, and ensuring supply and viability at scale.



MADE IN NZ

Manufactured in our Christchurch facilities for quality assurance, dependable supply and low environmental impact



BIODEGRADES

100% biodegradable on ground and in water. We source directly from local farms, reducing transport and supporting NZ's wool industry



LESS MAINTENANCE

DagMat is densely needle-felted providing highly effective weed suppression, which reduces weeding and spray maintenance



BOOSTS GROWTH

Planting growth and survival rates are greatly enhanced due to Dagmat's ideal properties



EROSION CONTROL

DagMat stabilises the ground and reduce erosion by adhering to soil. It has a unique scale-like structure, which catches and filters sediment



COMPLIANT

Third Party life cycle analysis, ISC Certified and Eco Choice tested for compliance & performance



FROST PROTECTION

DagMat has natural insulative properties that protect tender plant roots from cold and frost damage



STRONG

Tensile strength is typically twice that of coconut coir matting, and holds together for it's designed life



FIRE RESISTANT

Wool has flame resistant properties—it smolders, then self extinguishes – see test reports



WATER RETENTION

DagMat absorbs and releases up to three times its weight in water. This can reduce irrigation requirements and assist plant establishment



NATURAL FERTILISER

As DagMat biodegrades, essential nutrients such as nitrogen and potassium are released to improve soil health and boost plant growth



CUSTOM ORDERS

Custom widths and lengths are available for bulk orders, reducing waste and installation time

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DAGMAT® WOOL GEOTEXTILES APPLICATIONS

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DAGMAT® is highly effective for use in ground stabilisation, weed suppression and planting protection & enhancement applications

TECHNICAL APPLICATIONS

- Plant establishment & re-vegetation
- Ground stabilisation & erosion control
- Motorway & Civil landscaping
- High fire risk areas
- Seed germination protection
- Dust mitigation

SPECIFIC APPLICATIONS

- Re-vegetation of slopes & riverbanks
- Road, rail & sound barrier embankments
- Wetland construction & establishment
- Low-flow stormwater channels and Swale Drains
- Coastal sites
- Highly erodible soils and heavy rainfall areas
- High-wind sites
- Underwater–weed bed suppression/pond stabilisation
- Quarry, Landfill and Mining rehabilitation
- Parks, Golf Courses & Sports Grounds
- Soil stockpile stabilisation
- Lining Gabion Baskets for retaining walls
- Green roof or wall

	DAGMAT	COCONUT COIR	JUTE	RECYCLED WOOL**	SYNTHETIC
Biodegradable	•••••	••••	•••••	*	x
Made in NZ	•••••	x	x	•••••	x
Weed Suppression	•••••	••	••••	•••••	•••••
Fire Resistant	•••••	x	x	*	x
Tensile Strength	•••••	••	*	*	•••••
Eco Choice NZ Certified	•••••	x	x	x	x

*No data available **Generally grey in colour and may contain synthetic fibres and dyes that are harmful to the environment.

PRODUCT	STABILISATION	WEED CONTROL	EFFECTIVE LIFETIME subject to conditions	W x L	M² /ROLL	COVERAGE with overlap	CODE
	• Low ••••• Very High						
300 gsm	••	••	≤4mths	2.1m x 50m	105m²	95m²	DMR300.210.50
500 gsm	•••	•••	≤12mths	2.1m x 30m	63m²	57m²	DMR500.210.30
750 gsm	••••	••••	≤18mths	2.1m x 20m	42m²	38m²	DMR750.210.20
1000 gsm	•••••	•••••	≤24mths	2.1m x 15m	31.5m²	28m²	DMR1000.210.15

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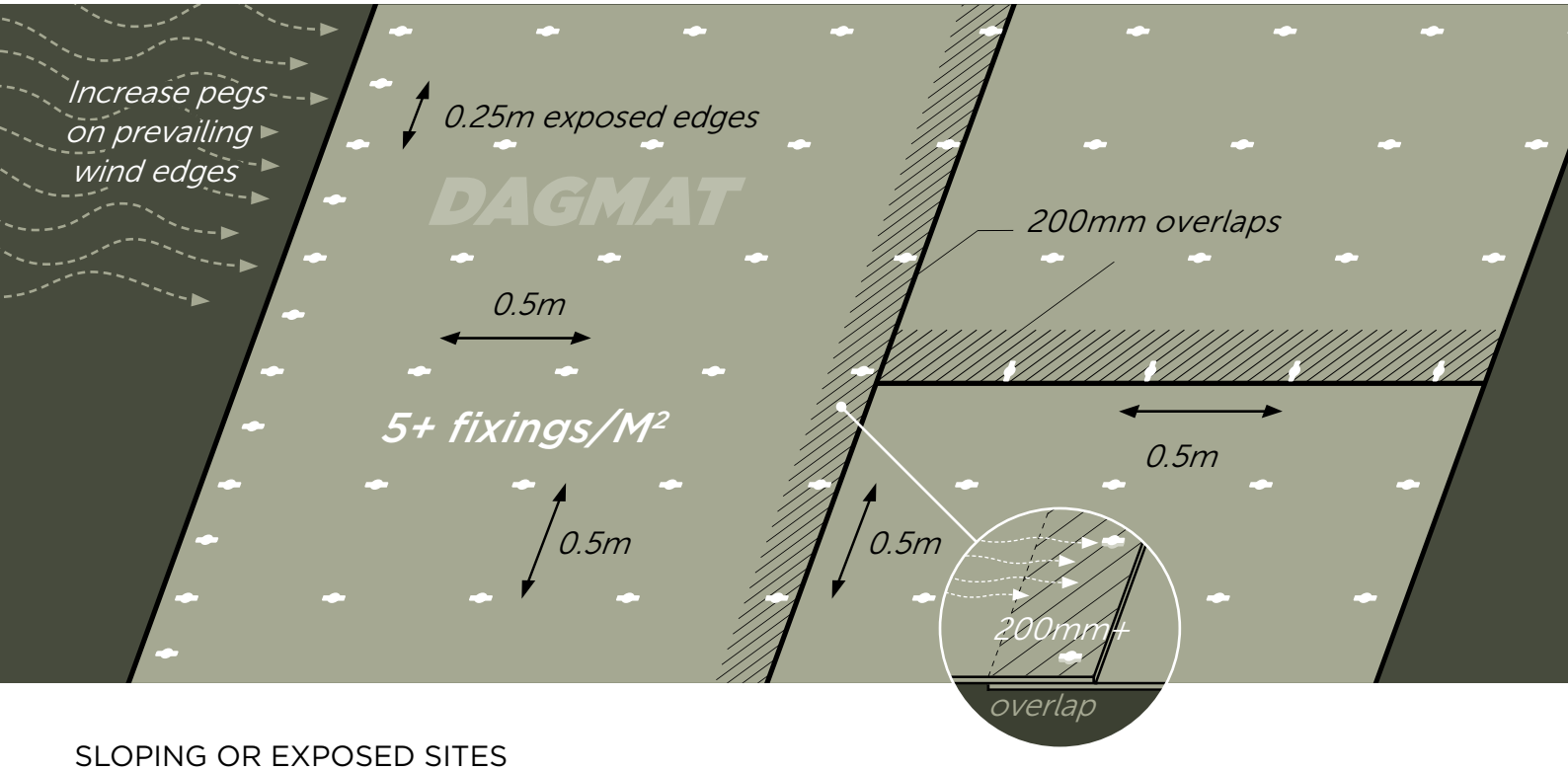
DAGMAT® WOOL GEOTEXTILES INSTALLATION

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DAGMAT® weed matting is easy to install, and ensuring its unique benefits are fully maximized requires proper installation based on site conditions.

FLAT & GENTLY SLOPING SITES

For sites <25º and not exposed to high wind or water flow, clear area of weeds, grass and obstacles—spraying may be required. **Good contact with the soil** is critical to adhere DagMat to the ground. Loosely lay matting with a minimum of **200mm** overlap. **Do not stretch or pull tight** as the mat may shrink after exposure. Fix with TerraPegs **every 500mm**, (5+ per M²) and about every 250mm on prevailing wind/flood edges. Use a sharp knife to cut plant insertions.



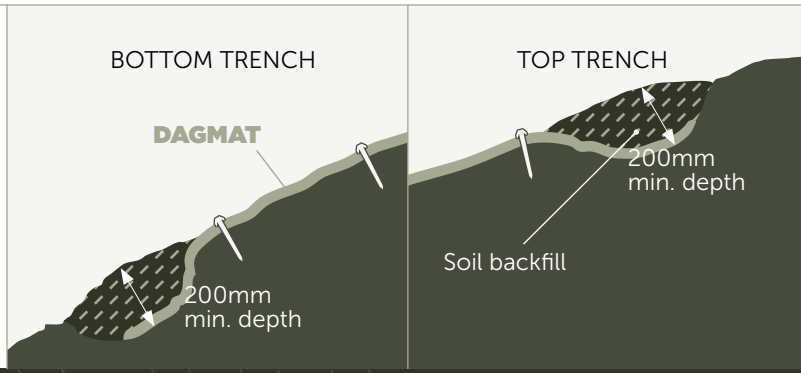
SLOPING OR EXPOSED SITES

For steeper gradients and areas exposed to wind or flood flow, use closer fixing centres and a heavier gsm DagMat. Fix prevailing edges accordingly—about every 250mm. Ground staples may be used for better holding power.

Determine overlaps by the prevailing wind. Ensure pegs are not less than **50mm from edges**.

BURIED TRENCH EDGES

Prevailing wind, flood or mowing edges can be buried. Ensure the matting is pegged just above the trench, as buried matting may biodegrade faster.



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DAGMAT® WOOL GEOTEXTILES RECOMMENDED FIXINGS

Choose fixings according to holding power, removal afterwards, and conditions: hard - soft ground, slope, and wind and water exposure factors. We recommend TerraPeg 150mm

TERRAPEG
BIODEGRADABLE



FIXING COMPARISON TEST*	FORCE TO REMOVE
TERRAPEG 150mm	4.9 kg
STEEL STAPLE 150mm	1.8 kg

*3rd party testing conducted by Trace Laboratories Inc.

BETTER GRIP

The barbed design of TerraPeg biodegradable fixing pegs provide ground grip much greater than wood or steel staples, ensuring better holding power to anchor DagMat. Biodegradability saves removal.

- Sugar-based, 100% renewable resource
- 2-3 times the holding power of equal length steel staples
- Biodegrades in 3-5 yrs (depending on conditions)
- Install using a steel mallet.
- Ideal for all Dagmat products and weights.

TRULY BIODEGRADABLE

TerraPegs are manufactured from a natural, sugar-derived bio-resin.
(ASTM-D6866 and Vincotte Class 4 highest cert.).

They are durable, yet biodegrade over time in the ground (ASTM-D6954)—unlike many biodegradable plastics that compost only in facilities at 40-60°C (ASTM D6400).

LENGTH	LIFETIME	INSTALL
150 mm	3-5 yrs+	Steel Mallet

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DAGMAT® WOOL GEOTEXTILES WETLANDS

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DAGMAT® is ISC rated, Eco Choice Certified and is an ideal solution for erosion and sediment control, while suppressing weeds and enhancing plant growth, in wetlands.

Wetland environments transition through distinct ecological zones—each with different water levels, exposure conditions, and vegetation requirements.

ZONES

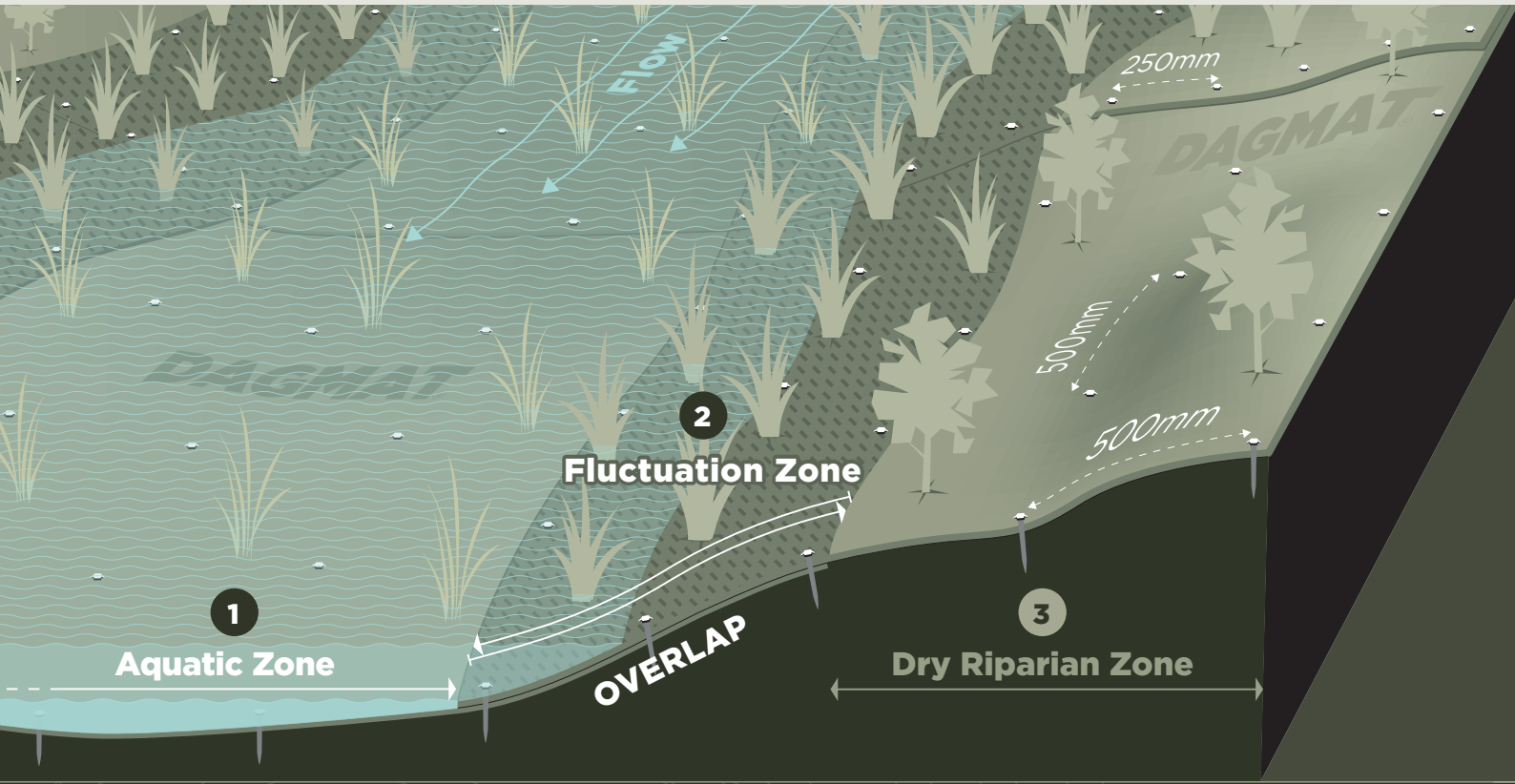
1. **AQUATIC** (Macrophyte)
   This is the area that is typically submerged

2. **FLUCTUATION** (Ephemeral)
   The area between the lowest and highest water levels

3. **RIPARIAN**
   The dry, banked area above normal water levels

Correct product selection, fixing density, and installation method within each zone are critical to ensure optimal erosion control, sediment capture, and plant establishment.

Follow the diagram below and instruction guide following to install DAGMAT® accordingly for each zone.



WETLANDS & STORMWATER GUIDE

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Correctly installed, DAGMAT® greatly assists in ground stabilisation and planting establishment in earthworked wetlands and stormwater management areas.

INSTALLATION GUIDANCE - see diagrams

- Top edge may be **trenched and pinned** where exposed to prevailing winds or mowing activity.
- Determine overlaps by the prevailing wind or flow
- Begin in the aquatic zone, then overlay from the top down
- Overlap Dagmat edges by 200mm
- Fixing density is determined by **slope gradient** and exposure to wind or water flow.

Typical fixing centres:

- **Centre** of mat: minimum 500 mm spacing
- **Perimeter** & **overlaps**: 250–500 mm spacing
- In **exposed** sites, tighten perimeter spacing to **250 mm**.
- Sheltered, shallow gradients, may be spaced up to **500 mm.**

AQUATIC ZONE – Submerged Stabilisation & Sediment Capture

The aquatic zone forms the base of the wetland where matting remains largely submerged. In this environment, DAGMAT® acts as a sediment-catching substrate, reducing **turbidity** while supporting aquatic planting.

Fully submerged conditions tend to align with standard biodegradation timelines, allowing vegetation to gradually replace the matting's function

RECOMMENDED PRODUCT

- Minimum **500 gsm** DAGMAT®
- 150mm TerraPegs

FLUCTUATION ZONE – The Critical Transition Area

This is the area where water levels rise and fall. It is typically damp, intermittently submerged, and exposed to air—conditions that accelerate bio degradation of natural fibres.

- Aim for rapid vegetation coverage within a **~6-month establishment window.**
- **Higher density planting** recommended

OVERLAP INSTALLATION SEQUENCE:

1. Install **500 gsm** DAGMAT® **first** from the aquatic zone.
2. Install **750–1000 gsm** DAGMAT® **overlapping** the 500 gsm.

RIPARIAN ZONE – Stabilising the Bank Edge

The riparian zone sits above the fluctuating water level and is typically exposed to wind, mowing, maintenance access, and rainfall runoff. This area often experiences the highest surface movement, making secure installation essential.

Matting in this zone provides initial surface stabilisation, while supporting vegetation establishment.

RECOMMENDED PRODUCT

- Minimum **750 gsm** DAGMAT®
- **1000 gsm** for steeper gradients or exposed sites

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