



Smart Solutions  
Powered by Science

# Asphalt Production Capability Statement

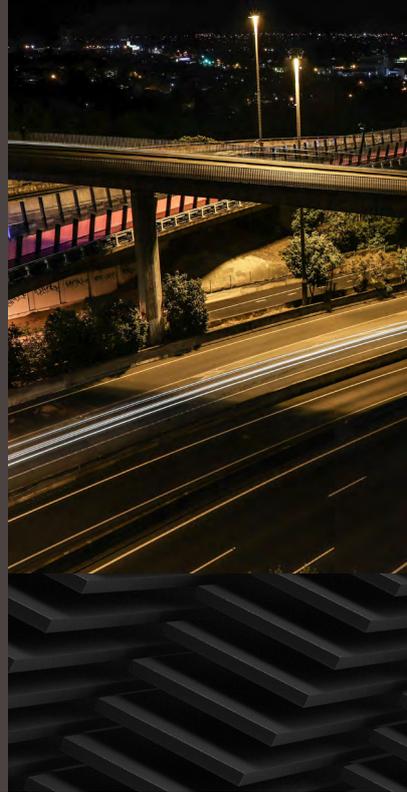
January 2026



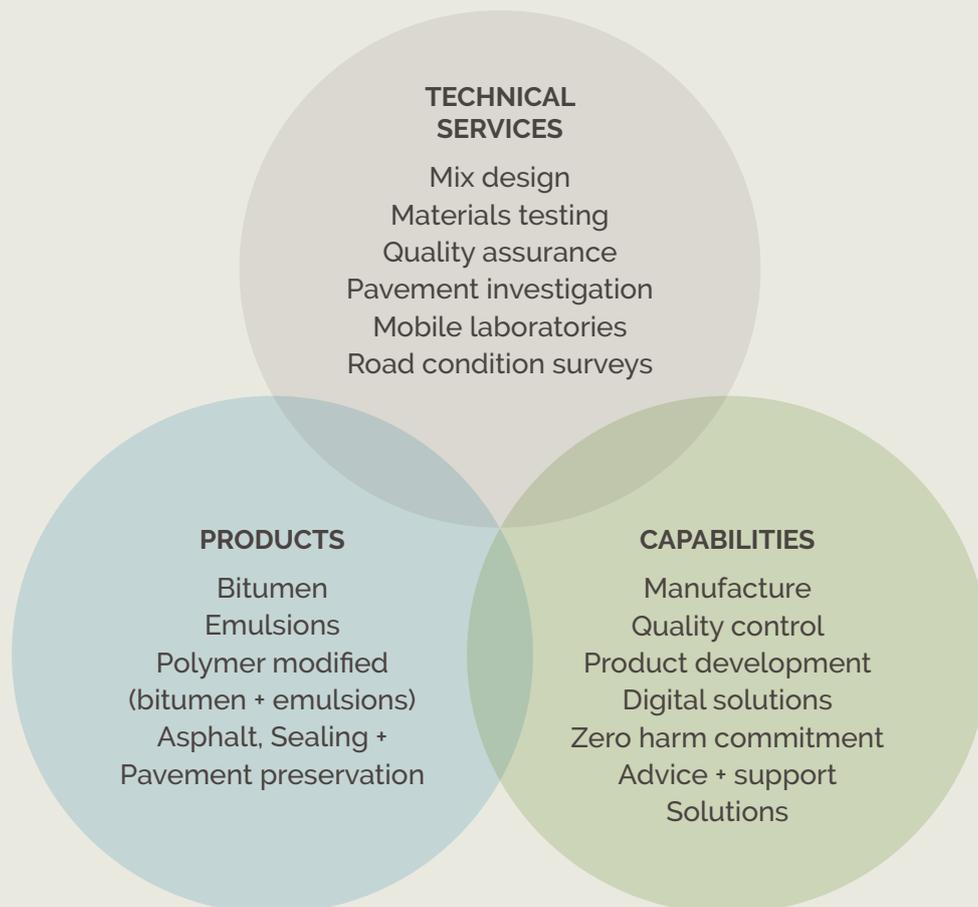
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## Innovative road + pavement solutions

At Road Science, we lead with innovation — delivering smart, science-driven solutions that build safer, stronger, and more resilient roads for New Zealand.



### Our complete solution



## Our values

Our values are the foundation of everything we do at Road Science reflecting who we are, how we work, and the impact we strive to make across the road and pavements industry.



### We are listeners

We believe great outcomes start with listening - to each other and to our customers. By asking the right questions and reflecting with empathy, we identify the real challenges to be solved. This helps us to build trust, set realistic expectations, and deliver lasting value.

Our culture values people first. We're inclusive, open to diverse thought, and easy to work with - never defensive. We stay agile in how we deliver, back each other as a team, and work with shared purpose. Together, we aim not to over promise, but to exceed expectations through honest relationships, unity, and consistent follow-through.



### We are your trusted experts

We're a passionate team of thinkers and doers - industry-recognised for our curiosity, craft and commitment to solving tomorrow's problems. We combine deep technical knowledge with genuine care for people, always designing for safer outcomes and zero harm.

Proudly Kiwi-made, we build trust through consistent delivery, open communication and humble confidence in what we do. We stay present - in the field, in the industry and in our relationships - because great outcomes are built together. We learn from the past, challenge ourselves with new thinking and take pride in doing what we say we'll do, every time.

We don't just follow best practice - we help shape what's next.



### We deliver solutions

Every solution is a team effort - from plant operators to mobile crews, office staff to lab technicians. We combine deep expertise with agility, working together to solve the real problems our customers face.

We embrace technology, adapt to change, and aren't afraid to think outside the box. We follow through, even when things get tough, learning from setbacks and staying focused on the outcome. Through strong partnerships - both within our team and with our customers - we deliver smarter, safer, and more sustainable solutions that stand the test of time.

“At Road Science, our strength lies in our people. We live our values every day - we listen, we are your trusted experts, and we deliver solutions. By fostering a culture of innovation, we unlock creativity and transform bold ideas into real-world road infrastructure solutions. Our team is committed to shaping the future of New Zealand’s roads and pavements through expertise, collaboration, and a relentless drive to make a difference.”

Doug Carrasco  
General Manager  
Road Science + Asphalt Production

## Our locations

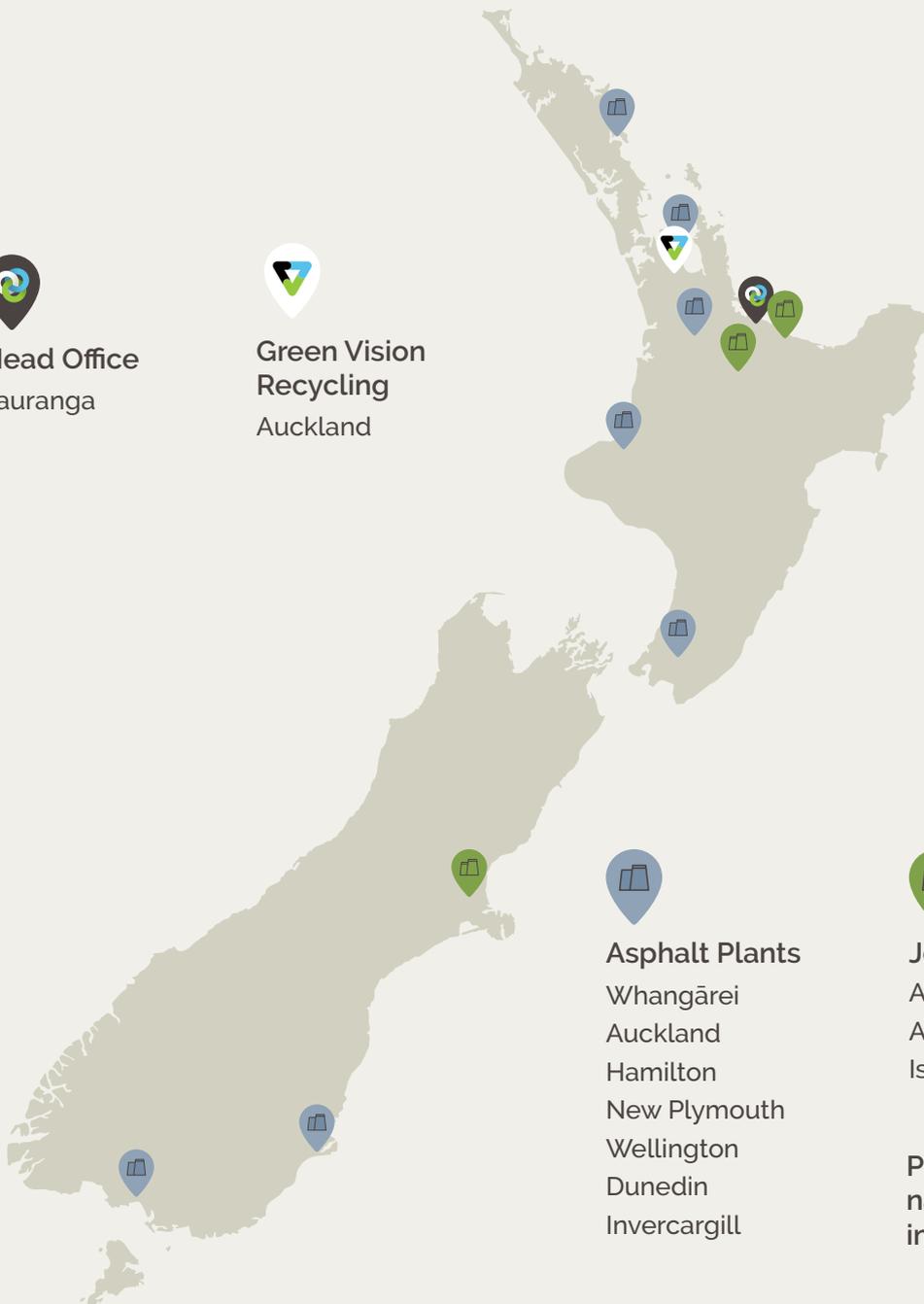
Nationwide asphalt plants and expertise ensures local support and innovative road and pavement solutions wherever your projects need us.



Head Office  
Tauranga



Green Vision  
Recycling  
Auckland



**Asphalt Plants**  
Whangārei  
Auckland  
Hamilton  
New Plymouth  
Wellington  
Dunedin  
Invercargill

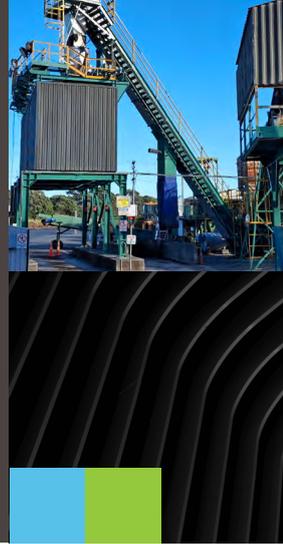


**Joint Ventures**  
Allied Asphalt Tauranga  
Allied Asphalt Rotorua  
Issacs Asphalt Christchurch

Plus one mobile plant for  
nationwide placement or  
in the Pacific

# Asphalt Production

Road Science offers a comprehensive portfolio of asphalt products engineered to meet the diverse demands of New Zealand's transport infrastructure.



From high-performance mixes for heavily trafficked highways to sustainable solutions for urban environments, Road Science delivers asphalt products designed for durability, safety, and environmental efficiency across every scale of infrastructure.

We supply asphalt through Downer's dedicated paving teams or directly to clients for use in their own projects. With seven strategically located fixed asphalt plants across New Zealand, supported by mobile plants and joint venture partnerships, Road Science ensures consistent, reliable supply and the flexibility to support major developments anywhere in New Zealand and throughout the wider Pacific region.

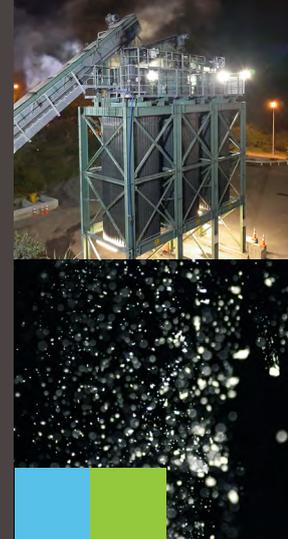
## Our Products

We supply a full range of asphalt products including:

- **Asphaltic Concrete (AC)** - provides durability and load-bearing capacity - ideal for roads and industrial areas
- **Dense Graded (DG)** asphalt mix - ideal for driveways, car parks, and residential roads
- High-modulus asphalt (**EME2**) for heavy-duty applications like airports, ports, and freight corridors.
- Thin surface treatments including;
  - Stone mastic asphalt (**SMA**),
  - Open graded porous asphalt (**OGPA**),Each tailored for skid resistance, noise reduction, and water drainage - perfect for motorways and intersections.
- Ultra thin asphalt (**UTA**) designed for surface renewal with minimal disruption - ideal for urban environments and overlays
- Sustainable products like **foamed asphalt**, warm mix (**WAM**), and reclaimed asphalt pavement (**RAP**) supporting lower carbon emissions and circular construction practices.
- **Cold mix** and **Plantmix** provide temporary solutions for emergency repairs and remote applications
- **EnviroTack** - Road Sciences high-performance 60% bitumen emulsion tack coat for superior bonding between asphalt and underlying pavement.
- Quality Pavement Repair (**QPR**) - a high-performance, permanent pavement repair solution for potholes, utility cuts, and damaged asphalt surfaces

## Site Capabilities

Across our network of plants, Road Science can manufacture and supply all leading asphalt products.



### Northern Region:

#### Whangārei

- 30t/hr
- 40t hot storage
- Specialty products:
- QPR
- EnviroTack (emulsion tack coat)

#### Auckland

- 200t/hr
- 4x120t hot storage
- Specialty products:
- RAP capable - 25%+
- SMA
- QPR
- Plantmix
- EnviroTack (emulsion tack coat)

#### Hamilton

- 60t/hr
- 3x65t hot storage
- Specialty products:
- SMA
- WAM
- QPR
- EnviroTack (emulsion tack coat)

### Central Region:

#### New Plymouth

- 70t/hr
- 3x32t hot storage
- Specialty products:
- EME2
- QPR
- Plantmix
- EnviroTack (emulsion tack coat)

#### Wellington

- 55t/hr
- 3x60t hot storage
- Specialty products:
- WAM
- EME2
- Epoxy OGPA
- EnviroTack (emulsion tack coat)

### Southern Region:

#### Dunedin

- 140t/hr
- 2x25t hot storage
- Specialty products:
- RAP capable - 20%
- SMA
- EME2
- Foamed asphalt
- Plantmix
- UTA

#### Invercargill

- 100t/hr
- 1x30t hot storage
- Specialty products:
- RAP capable

### Plus, joint venture supply:

#### Tauranga

- 60t/hr
- 3x40t hot storage
- Specialty products:
- EME2
- SMA

#### Rotorua

- 60t/hr
- 2x40t hot storage
- Specialty product:
- EME2

#### Christchurch

- 200t/hr
- 5x50t hot storage
- Specialty products:
- RAP capable - 30%
- SMA
- Coldmix asphalt
- EnviroTack (emulsion tack coat)

## Green Vision Recycling

Sustainable aggregate products and services.



Green Vision Recycling is a leading provider of recycled aggregate, concrete, rock, and asphalt products, delivering environmentally responsible engineering solutions to the construction and infrastructure sectors.

Located in Auckland, Green Vision plays a critical role in reducing the environmental footprint of road construction by re-purposing materials that would otherwise go to landfill.

### Our Products

- **RCC** - Recycled crushed concrete is the sustainable, high-performance alternative to virgin aggregates, delivering a reduced carbon footprint, easy compaction, and exceptional yield. Produced in a range of grades to meet diverse specifications and applications, RCC is backed by an Environmental Product Declaration, ensuring transparency and proven performance that matches conventional solutions. Choose RCC for a low-carbon, reliable material that supports your environmental goals without compromising quality.
- **RAP** - Recycled asphalt products are created by recovering and processing road millings and slabs, which are then crushed and screened into various asphalt fractions. This recycled material is ideal for inputs to hot asphalt production and can also be used in a range of civil applications, delivering both cost efficiency and environmental benefits. By reusing existing pavement, RAP reduces waste and supports a circular economy in road construction without compromising performance.
- **Virgin aggregates** - We offer a range of materials supporting core civil contracting works.

### Our Services

- **Material disposal** - Concrete (clean and reinforced), asphalt, managed fill; a convenient local disposal facility that supports the circular economy
- **Bulk cartage** - transportation to and from Green Vision in Onehunga, or point-to-point as required with specialised steel bodied truck and trailer tipping units

| Learn more by visiting  
[greenvisionrecycling.co.nz](http://greenvisionrecycling.co.nz)

## Case study

# Tirau to Waiouru (T2W) Accelerated maintenance project



### A New Zealand first pavement renewal project

The T2W project set a new benchmark for road maintenance in New Zealand, compressing four years of pavement renewal funding into just two construction seasons. Led by Downer, this ambitious programme was designed and delivered to a 25-year pavement life standard - demonstrating what's possible when innovation, collaboration, and technical excellence align.

### Why EME2?

To meet the structural and performance demands of the project, Downer selected EME2 as the asphalt of choice. Engineered for high-modulus strength, EME2 enables thinner, longer-lasting pavements with exceptional rut resistance - ideal for heavily trafficked and high stress environments like SH1. Originally developed in France, Road Science is proud to be New Zealand's sole manufacturer of EME2-grade bitumen, supporting the delivery of advanced structural asphalt mixes.

### Season one delivery highlights

To meet tight time lines, the project adopted zone closures, enabling efficient delivery and minimising disruption. EME2 comprised 38% of the total asphalt laid in season one, with an additional 80,000 tonnes (including EME2 and SMA) scheduled for season two.

This project was a true showcase of industry collaboration - bringing together customers, suppliers, and stakeholders to overcome complex freight logistics across multiple carriers. The result: record-breaking monthly asphalt deliveries, exceeding previous years by 15-45%.



#### PROPERTIES



Hot Bitumen

#### USED FOR



Rutting

#### ENVIRONMENT



Airports



Roundabouts & Intersections



Ports



Industrial

**“Road Science remains at the forefront of road and pavement innovation. Their unwavering focus on customer-driven, sustainable solutions is actively shaping New Zealand’s transport infrastructure — making our roads safer, more intelligent, and future-ready.”**

Murray Robertson  
Managing Director  
Downer New Zealand



## Key contacts

Get in touch with Road Science asphalt production today — our team is ready to support your projects with proven expertise.

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