

# Brendale Sustainable Road Resource Centre

Australia's most advanced asphalt manufacturing and recycling facility

Centrally-located, with direct connections across South-East Queensland, Downer's new Brendale asphalt manufacturing and materials recycling facility supports our customers through:



Easing the strain on municipal landfills by reprocessing waste materials to be used in road and construction projects



Recycling street sweepings, gully waste and non-destructive digging material otherwise destined for landfill to create sand and aggregate



Reclaimed Asphalt Pavement (RAP) processing facility allowing the on-site sorting, grading and testing of incoming materials for recycling and future use in asphalt and base course materials



Production capability exceeding 300 tonnes per hour, with hot-storage capacity of 600 tonnes, capable of servicing any size asphalt project in South East Queensland



Capacity to produce high RAP content (10-100%) and special purpose asphalt mixes to required specifications.



The latest computer-controlled systems providing real-time quality process control while tracking energy consumption and CO<sub>2</sub> production



NATA certified technical laboratory facilities on site ensuring quality control of each asphalt batch produced, and leading research, development and proving processes for new, innovative road surfacing solutions



5 tonne batch drop capacity for expedient turnaround of transport vehicles within a matter of minutes, with a range of asphalt products available simultaneously to service flexible order requirements

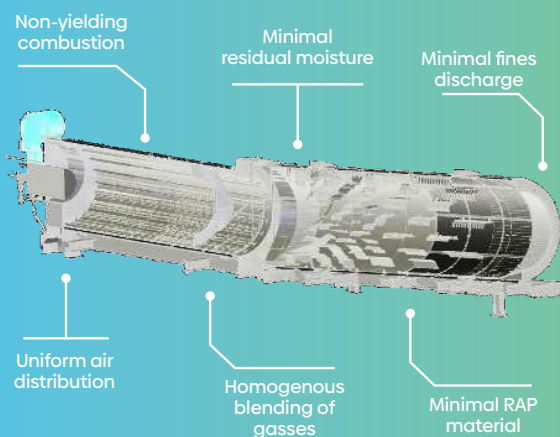
# The Brendale Difference

Not all asphalt is created equal...

With bitumen and aggregates more expensive than ever, municipalities are recognising the inherent environmental and economic value of the road assets they already own.

Downer's new Ammann RAH100 High Recycled Technology (HRT) facility is the only plant in Queensland capable of producing asphalt comprised of up to 100% recycled asphalt pavement.

Most importantly, the high-recycled-content asphalt from our Brendale facility not only meets but **exceeds performance specifications**, while making a significant contribution to our customer's carbon emission reduction goals, and reducing the costs associated with finite resources.



## Did you know?

To deliver a specification-compliant sustainable pavement, reclaimed asphalt (RAP) content requires gentle, precise, and even heat during the manufacturing process.

Traditional asphalt manufacturing plants attempting to produce high-RAP mixes damage the bitumen content of the RAP through overheating, resulting in a weaker pavement.

Downer's new Ammann RAH100 HRT plant uses counter flow technology with gas generation, heating RAP with a much more **gentle convection heat** (up to 160oC). This world-leading manufacturing technology preserves and maximises the bitumen content, reducing virgin bitumen costs, improving pavement performance, and **increasing pavement life by up to 15%**.

Additional benefits include reduced fuel requirements and **significantly lower emissions** of volatile organic compounds and CO<sub>2</sub>, furthering the environmental credentials of our customer's recycled road assets, and supporting our customers in meeting their carbon emission reduction targets.