



Bridgestone Ecopia & Bandag.

Leave fuel costs behind.



Ecopia M749 & R109

Bandag BDL3 & BRL3

ECOPIA
bandag

BRIDGESTONE
Solutions for your journey

Introducing the complete fuel saving tyre solution from Bridgestone.

The Bridgestone Ecopia M749 drive and R109 truck tyres combined with Bandag BRL3 trailer and BDL3 drive retreads form the perfect solution to help you slash fuel costs without compromising on tyre performance.

Using less fuel translates into lowering your CO₂ emissions. With Bridgestone Ecopia and Bandag you can improve your green credentials as well as your bottom line.

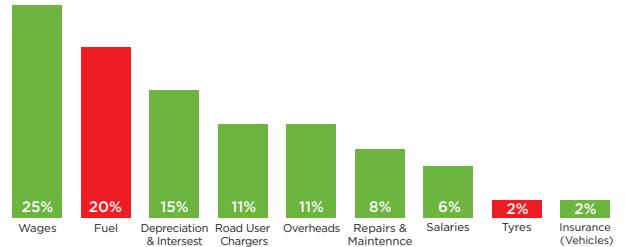
What are your operating costs?

The average fleet in New Zealand will spend 20% on fuel and only 2% on tyres.*

What if you could save fuel – and your bottom line – by changing the type of tyres you use?

Testing shows that tyre rolling resistance accounts for up to 33% of fuel consumption.^ More than 80% of this resistance comes from the drive and trailer tyres.†

NZ Average Fleet Expenditure (weighted)*



*Figures based on data gathered by RTFZ/Grant Thornton transport cost index (Quarter ending December 2011). Fuel Prices were sourced from the Ministry of Economic Development's oil price monitoring service.

^Rolling resistance quotients calculated using Secrets of Better Fuel Economy, published by Cummins in 2006.

†Actual figure is dependent on drive and trailer configuration as well as load weights and driving terrain etc.



TO GET INTO THE BLACK... GO GREEN.

How much could you save?

Under controlled conditions, Bridgestone Ecopia tyres outperformed the competition. The results show that Bridgestone Ecopia has significantly lower rolling resistance – and lower rolling resistance equals fuel savings.

Controlled Test in NZ has shown Fuel Savings of up to 8.5%

Both the Ecopia M749 drive tyre and Ecopia R109 trailer tyre feature a conventional tread compound and offer a comparable wear life to Bridgestone Premium tyres. While Fuel saving, the unique casing does not compromise durability, irregular wear resistance or wet performance.

Even switching from our Bridgestone Premium product to Bridgestone Ecopia can save you up to 8.5% in fuel costs*. This means that if you are spending \$1,000,000 per year in fuel, simply switching from Bridgestone premium brand tyres to Bridgestone Ecopia tyres can save you up to \$85,000 per year.

This could unlock the profits you need to stay viable during tough economic times and in the face of rising fuel prices.

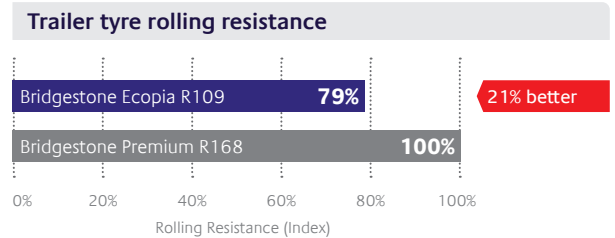
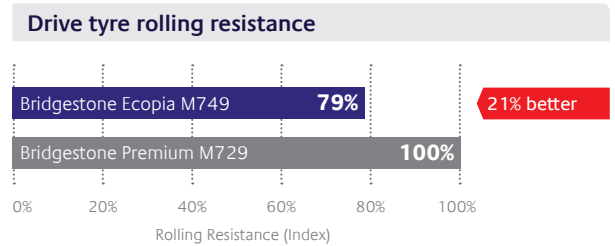
Bridgestone Ecopia vs. Bridgestone Premium

Controlled Fuel Consumption test		
Fitment	BS Premium	BS Ecopia
Fuel Consumed L/100km	47.91L	43.82L
Fuel Savings %	8.53%	

*Fuel consumption Test conducted in November 2015 by Bridgestone NZ Ltd using a 2015 MAN 26.540 Truck and 6 Axle B-Train trailer. The vehicle was run with Ecopia tyres (275/70R22.5 Ecopia M749 on Drive and 265/70R19.5 Ecopia R109 on Trailer) then run with Bridgestone Premium tyres (275/70R22.5 M729 on Drive and 265/70R19.5 R168 on Trailer). When fitted with Ecopia tyres fuel consumption was 8.5% less than with Bridgestone Premium tyres. Actual fuel consumption savings will depend on factors such as vehicle configuration, load speed and driving style.



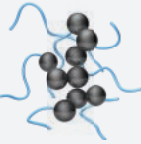
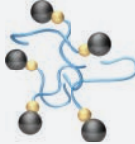
Bridgestone Ecopia for lower rolling resistance.

Bridgestone Ecopia tyres are designed to significantly improve your vehicle's ability to continue to be able to roll due to new technology which decreases the restrictive friction between the tyre and the road's surface. Measured under controlled laboratory conditions, Bridgestone Ecopia tyres offered 21% less resistance than Bridgestone Premium tyres.



State-of-the-art casing technology.

The advantage comes from Bridgestone Ecopia's state of the art casing technology. In a conventional tyre's compound, the carbon molecules clump together, causing friction and generating heat, which leads to energy loss. In Bridgestone Ecopia tyres, the carbon molecules remain dispersed, minimising energy loss and friction.

Feature	Conventional Case	Ecopia Case
Tyre Shape		
Sidewall Compound		
Tread Compound	Conventional Compound	Conventional Compound

Case design

As a tyre rolls, it is deformed near the contact patch then returns to its original shape; forcing the carbon molecules in the rubber to rub past each other as the tyre shape changes, creating heat (an energy loss). Optimum case line design reduces the points of high stress and energy loss when the case flexes.

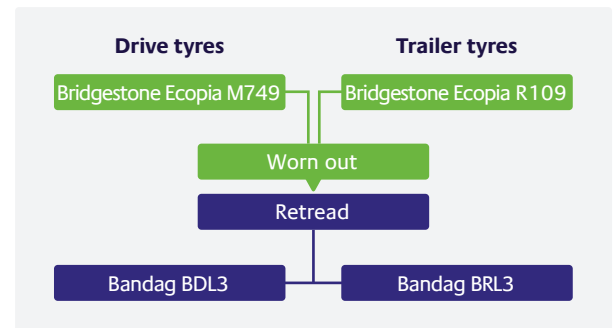
Bridgestone Ecopia tyres use a conventional tread compound in order to not only improve fuel efficiency, but also achieve comparable wear-life to conventional tyres. The fuel efficiency is a result of the unique casing technology and sidewall compound, generating lower rolling resistance. This is what causes Bridgestone Ecopia's increased fuel efficiency.

Savings for the entire life of the tyre.

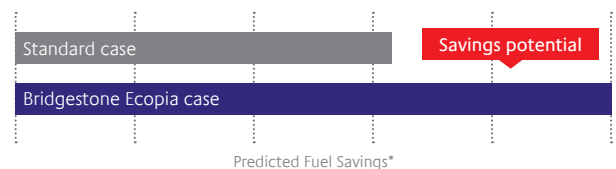
The tyre casing of the Bridgestone Ecopia M749 & R109 has low rolling resistance benefits, so as the tyre wears, the advantage is still present. This means you can have the tyres retreaded and retain the rolling resistance benefits for the next life of the tyre.

In fact, when Bridgestone Ecopia casings are re-used with Bandag low rolling resistance retreads, the predicted fuel-savings are doubled* when compared with using a standard casing.

Due to the fact that the Bridgestone Ecopia low rolling resistance technology is in its state of the art casing, its fuel saving abilities can be further utilised by retreading with Bandag BRL3 or BDL3 tread.



Fuel saving potential with Ecopia case & Bandag LRR



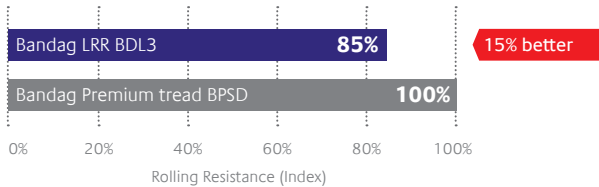
*Figures based on rolling resistance measurements of Bandag premium retread, Bandag low rolling resistance retread, Bridgestone premium casing and Bridgestone Ecopia casing then correlated to fuel savings using rolling resistance quotients calculated from Secrets of Better Fuel Economy, published by Cummins in 2006. Actual fuel consumption savings will depend on factors such as vehicle configuration, load, speed and driving style.

Bandag low rolling resistance retreads.

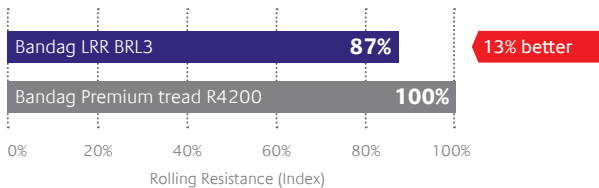
Bandag's BDL3 drive tyre and BRL3 trailer tyre retreads complement the Bridgestone Ecopia tyre range. With Bandag the tread delivers lower rolling resistance, which results in fuel savings. This is without compromising the durability, irregular wear resistance or wet performance of the tyre.

Bandag is the leader in tyre retreads. Even with laboratory testing against Bandag's own Premium retreads, there was a consistent reduction in rolling resistance of at least 13% on trailer tyres and 15% drive tyres.

Drive Bandag BDL3 rolling resistance



Trailer Bandag BRL3 rolling resistance



Tests on fleets in New Zealand have shown fuel savings of up to 9.7%*

Tests in New Zealand fleets have shown fuel savings between 6.3% and 9.7%. The Bandag retread test was performed in NZ against our Premium tread compound and proved that while saving fuel, Bandag retreads do not compromise on durability, wear life, irregular wear resistance or wet performance.

Bandag vs. Bandag Premium

	Vehicle A		Vehicle B	
Tyre Fitment	Bandag Premium	Bandag	Bandag Premium	Bandag
Ltr/10,000km	6,391	5,989	6,615	5,974
Fuel Savings %	6.3%		9.7%	
Average Savings %	8.0%			

* Fuel consumption test conducted in 2013 by Bridgestone New Zealand Ltd, using two 2011 Volvo FH520 trucks and 4 axle bulk trailers. The vehicles were run with Bridgestone Premium steer and Bandag low rolling resistance drive and trailer tyres (275/70R22.5, R297 on steer, 275/70R22.5 Bandag BDL3 on drive and 265/70R19.5 Bandag BRL3 on trailer) then run with Bandag Premium treads on drive and trailer positions (275/70R22.5 R297 on steer, 275/70R22.5 Bandag BPSD on drive and 265/70R19.5 Bandag R4200 on trailer). Vehicle A drove a distance of 10,105km on Bandag Premium tyres, using a total of 6458 litres of fuel while on Bandag drove 13,736km using a total of 8,226 litres of fuel. Vehicle B drove a total of 14,226km on Bandag Premium tyres for a total of 9410 litres of fuel while on Bandag drove 14,015km for a total of 8,372 litres of fuel. Actual fuel consumption savings does depend on factors such as vehicle configuration, load, speed and driving style."

BRIDGESTONE ECOPIA SAVES YOU FUEL.



Bridgestone Ecopia M749 Drive

The M749 is a fuel saving drive tyre that doesn't compromise on durability, irregular wear resistance or performance in the wet. The directional tread pattern features a conventional tread compound, delivering excellent traction and wet weather handling. Significant fuel savings come from Bridgestone Ecopia's state of the art casing, which will continue to contribute greater fuel efficiency for your vehicle once retreaded.

Size	LI/SS	OD (mm)	OW (mm)	Tread Depth (mm)	RPK	RW (inch)	Max Load* (kg) Single / Dual
11R22.5	148/145L	1056	283	18.3	310	7.50-8.25	3075/2830
275/70R22.5	148/145M	973	264	18.3	337	7.50-8.25	2940/2705

*Max Load at 120 PSI



Bridgestone Ecopia R109 Trailer

The R109 is a fuel saving trailer tyre. Like the M749, it uses a conventional tread compound and doesn't compromise on durability, irregular wear resistance or performance in the wet. The 11R22.5 R109 can also be used on the steer axle of rigid trucks, further reducing rolling resistance. Bridgestone Ecopia's state of the art casing technology will continue to save you fuel, even after retreading.

Size	LI/SS	OD (mm)	OW (mm)	Tread Depth (mm)	RPK	RW (inch)	Max Load* (kg) Single / Dual
265/70R19.5	143/141J	865	256	12.4	379	7.50-8.25	2660/2515
275/70R22.5	148/145L	957	265	11.1	343	7.50-8.25	2940/2705
255/70R22.5	140/137J	926	250	11.1	354	6.75/7.50/8.25	2500**/2300**
385/55R22.5	160K (158L)	1000	386	13.0	330	11.75-12.25	4200/-

*Max Load at 120 PSI

**Max Load for 255/70R22.5 at 116 PSI



BANDAG: THE NEXT GENERATION IN FUEL SMART RETREADS.

Bandag BDL3 Drive

The BDL3 retread is a fuel saving drive tyre with a low rolling resistance tread. It offers excellent traction and wet weather handling without compromising durability or irregular wear resistance. The fuel savings are further enhanced when the retread is applied to a Bridgestone Ecopia casing.

Casing Sizes	Tread Sizes	Tread Depth (mm)
265/70R19.5	210/220/230	19.0
295/60R22.5	250	19.0
275/70R22.5	240/250	19.0
295/80R22.5	240/250	19.0
11R22.5	210/220/230	19.0



Bandag BRL3 Trailer

The BRL3 retread is a fuel saving trailer tyre with a low rolling resistance tread. It offers excellent wet weather handling without compromising durability or irregular wear resistance. The fuel savings are further enhanced when the retread is applied to an Ecopia casing. The BRL3 can also be used on the drive axle of buses and small rigid trucks.

Casing Sizes	Tread Sizes	Tread Depth (mm)
245/70R19.5	210/220/230	19.0
265/70R19.5	210/ 220/230	19.0
255/70R22.5	210/220	19.0
275/70R22.5	240/250	19.0
11R22.5	210/220/230	19.0



BRIDGESTONE

Solutions for your journey

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