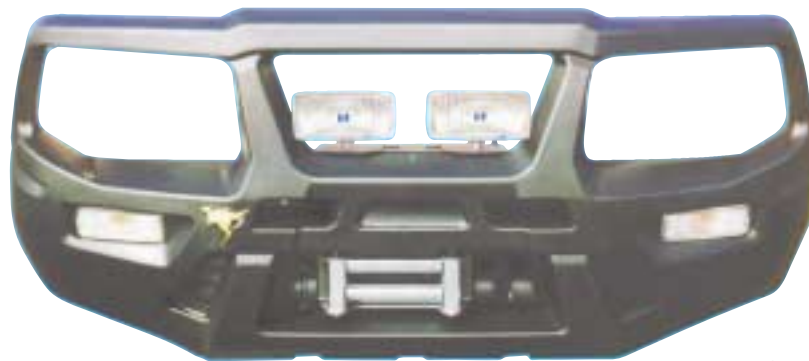


***SAVE LIVES  
SAVE MONEY***



***SMART BAR***

**SMARTBAR POLYETHYLENE BULLBARS**

*The smarter way to protect your vehicles,  
their occupants, pedestrians ... and your pocket!*

**BULLBARS** have been a part of the Australian way of life for decades. Anyone who travels any distance in the country will tell you of the costs – and dangers – associated with animal strikes ... and anyone who lives in the city can tell you how expensive and inconvenient even the most minor carpark bingle can become.

For many fleet operators bullbars are a necessity, but recent concerns over pedestrian safety and OHS issues have forced a rethink of what bullbars are really all about. Metal bars have their benefits, but there's a better way, a smarter way ... *smartbar*!

### **SMART THINKING...**

Manufactured from polyethylene, and designed with a hollow internal structure that provides a cushioning effect, *smartbar* absorbs impact and minimises the forces that cause damage and injury.

Significantly the design and material used mean that *smartbar* not only exhibits superior deformation and deceleration properties – it also springs back into its original shape in all but the most extreme impacts.

### **SAVES LIVES...**

Child head-form impact tests conducted by independent authorities show *smartbar* to be clearly safer than conventional steel and aluminium bullbars ... and, in some cases, to actually perform better than the standard vehicle.

With current concerns about pedestrian safety, and continuing media coverage, it's reassuring to know that your decision to fit *smartbar* could save a life.

Pedestrians aren't the only ones to enjoy *smartbar's* safety benefits though. Because *smartbar* absorbs impact more efficiently than metal bars there is less likelihood of injury to vehicle occupants – an important OHS concern for fleet operators.

### **SAVES MONEY...**

Fitting a better bullbar doesn't mean spending more money.

Compared to the cost of most aluminium bars *smartbar* offers an immediate saving, and while some steel bars may initially be cheaper fitting a *smartbar* soon pays back the investment.

Being lighter than metal bars *smartbar* means both lower fuel consumption and reduced front-end tyre and suspension wear ... plus, of course, the vehicle can carry more load.

Most importantly of all however, *smartbar's* unique ability to effectively absorb impacts and bounce back in to shape means not only a big reduction in crash damage but a long service life and none of the downtime and expense of replacing damaged metal bars.

### **THE SMART CHOICE...**

Fitting *smartbar* is an easy decision to make. With superior safety, reduced costs, and a proven performance record, *smartbar* is the smart choice for every government, commercial, fleet or private vehicle that needs to be fitted with a bullbar.

For more information on *smartbar* fitments, installation and fleet discounts contact *smartbar W.A.* today.

# **SAVE LIVES SAVE MONEY**



**SMART BAR**

smart bar W.A.

92 Beechboro Road Bayswater WA 6053

Ph: 9271 6898 Fax: 9271 6897

[www.smartbar.com.au](http://www.smartbar.com.au)

WE WEREN'T AMAZED AT WHAT A  
20 KPH CRASH DID TO OUR BULL BAR



UNTIL WE SAW WHAT  
IT DID TO A METAL ONE



Some bull bar manufacturers have responded to the safety concerns by making energy absorbing bull bars, which may well prove to have a reduced risk of pedestrian injury over the non-bull bar equipped vehicle and it would be unreasonable to ban these.

Transport Research Laboratory



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
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The results of the latter program also indicate the steel and aluminium bull bars had the worst performance, but that plastic bull bars performed similarly to or better than the unprotected vehicle in terms of injury to pedestrians.

Australian Transport Safety Bureau  
Bull Bars and Road Trauma

The crash pulse of the plastic bar was 45% lower than the aluminium bullbar and 71% lower than the original Hino bumper bar. This will result in a reduction of the seat belt loading and brain injuries of the truck occupants.

Automotive Safety Engineering Pty Ltd 

The 'Smart Bar' performed better than the steel and aluminium bars in all comparison tests, and in some cases afforded reasonable head protection during the impact, as measured by the Head Injury Criterion. The bar also performed better than the unprotected vehicle in all but one test.

A handwritten signature in black ink, appearing to read 'A. J. McLean'.

Prof. AJ McLean

NHMRC Road Accident Research Unit

This plastic frontal protection system, designed and manufactured by Team Poly Pty Ltd has other advantages. This includes, effective crash damage control properties while being yielding and therefore less aggressive, compared to bare metal front protection systems.

Automotive Safety Engineering Pty Ltd 