

Raptor

Crash Cushion

MASH TL1 COMPLIANT

NCHRP-350 COMPLIANT



EXCEPTIONAL ENERGY-ABSORBING CAPABILITY

absorbing device designed to reduce the severity of vehicle impacts with utility poles or trees

Its unique technology offers a compact low-cost solution in places where typical crash cushions would not physically fit.

A utility pole (or a tree) offers no energy absorption during a head on impact; consequently the occupants and vehicle will absorb all the impact energy being released from a vehicle decelerating to a halt in a fraction of a second. The consequences are quite obvious.

Approximately 30% of the run-off-road fatalities involve severe impacts with hard objects such as poles and trees. The cost of removing these hazards can be prohibitive as it may involve re-layout of the road itself; as a consequence these hazards are often left unattended until a serious accident occurs.

RAPTOR™ offers exceptional vehicle control and energy absorbing capabilities during head on collisions; the impact energy is absorbed by internal plastic cartridges. RAPTOR™ is also capable of deflecting a vehicle in side-on angled impacts. The RAPTOR™ system has been tested to both MASH and NCHRP 350 guidelines for a gating, non-re-directive crash cushion and has been judged to have satisfied the required evaluation criteria for Test Level 1 (TL-1).

kg Pick-up truck impacting head using the RAPTOR™ at 50







Features & Benefits

- Highly reduces the severity of vehicle impacts against poles and trees
- Meets both MASH TL1and NCHRP-350 TL1test criteria
- Usable in places typically impossible to protect
- Compact size and easy installation (under 30 minutes)
- Two sizes available to fit multiple width hazards
- Zero maintenance, UV Stabilised, expected lifespan 25 years
- Smooth surfaces and geometry, suitable for vulnerable road users
- After a collision occurs, the non-impacted side can still be re-used
- No foundations are required
- Fully recyclable very low cost protection

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- Sydney (02) 9827 3333
- Brisbane (07) 3489 9125
- Perth (08) 9452 9111
- Wagga 0427 779 588
- Melbourne (03) 9358 4100
 Adelaide/NT (08) 8169 2300
 - Newcastle 0400 235 883
 - Freecall 1300 446 425



Raptor[™]

Crash Cushion

MASH TL1 COMPLIANT

NCHRP-350 COMPLIANT

The **RAPTOR**™ is a safety device purposely aimed to reduce the impact severity of errant vehicles with a utility pole or tree. It has been designed, tested and accepted to NCHRP 350 and MASHTL1 criteria.

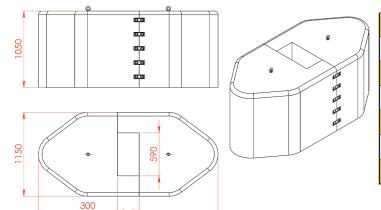
Its exceptional vehicular control and energy absorbing capabilities during end-on impacts makes the RAPTOR™ an ideal solution for utility pole or tree protection.

Due to its simplistic design, installation and repairs can be done under 30 minutes, promptly re-establishing the safety on our roads.

Contact Ingal Civil today for more information on this and other road safety products.

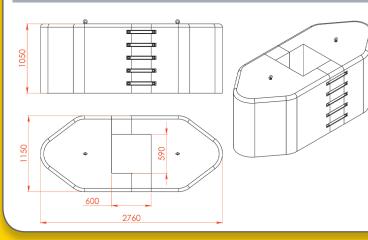


RAPTOR™ 300



Overall Length	2460mm
Height	1050mm
Width	1150mm
Void Size	300mm x 590mm
Shells & Cartridges	Stabilised PE (UV8)
Connector & Fixings	Galvanised Steel
Weight (per shell)	110kg

RAPTOR™ 600



2460

Overall Length	2760mm
Height	1050mm
Width	1150mm
Void Size	600mm x 590mm
Shells & Cartridges	Stabilised PE (UV8)
Connector & Fixings	Galvanised Steel
Weight (per shell)	110kg
Weight (per packer)	12kg

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