

**Armadillo: Verdegro's newest crash cushion, fully tested and approved in accordance with MASH 2016 TL-3 at 100 km/h which equals 62 mph!**



**TECHNICAL SPECIFICATIONS**

- Fully crash tested and approved according to MASH 2016 TL-3 (3-50 | 3-51 | 3-52 | 3-53)
- The arrow board bracket and the multi-truck bracket are also MASH tested
- Standard operation from the truck using a wired in-cab controller
- Equipped with 175 A or 350 A Anderson plug supplying full system power from the vehicle's 12 Vdc or 24 Vdc electrical system
- Complete hydraulic and electronic unit enclosed in a sealed protective housing
- Two hydraulic rams for reliable raising and lowering of the crash cushion
- Integrated under-ride protection built into steel framework
- Galvanised steel structure
- Aluminium crash cushion can be finished in any desired RAL colour(s)
- Delivered with official crash test certifications and CE marking / EMC compliant
- Geo fencing by Mobilityplanner (optional): visibility in Waze, Flitsmeister, Apple Maps, [Here](#)

**OUR NEWEST INNOVATION**

Meet the Armadillo TMA, Verdegro's latest Truck Mounted Attenuator, introduced to the market in 2026. The Armadillo TMA has been rigorously tested and fully approved in accordance with MASH 2016 TL-3. All performance values remain within the requirements of this crash standard, delivering a high-quality, low-maintenance, and easy-to-use product for routine use in traffic management operations.

**EVOLVING MASH 2016 PERFORMANCE**

The Armadillo TMA builds on the proven MASH 2016 performance of BLADE-TMA, but refines the concept for greater efficiency and simplicity. While BLADE-TMA remains a robust and trusted solution, the Armadillo TMA represents the next step in TMA design.

Compared to BLADE-TMA, Armadillo TMA is lighter, more compact, and mechanically less complicated, making it easier to operate and service. The system is simplified and uses no sensors or other electronic components – only a hydraulic power pack.

Unlike BLADE-TMA, the Armadillo TMA consists of a single cushion element, eliminating the need for extension mechanisms or extra motors. This results in a simpler, more reliable design and a more affordable product.

The Armadillo TMA meets the full MASH 2016 standard, offering the same high protection in a more efficient, simplified design.

# ARMADILLO (MASH 2016 TL-3 100K)

## PATENTED DESIGN

The Armadillo features a patented design, developed to deliver proven performance and reliability. The design is protected by multiple international patents, including:

- Europe: EP3414397
- United States: US9739328
- China: 201780012010-9
- Hong Kong: 1259882



Table of contents and dimensions

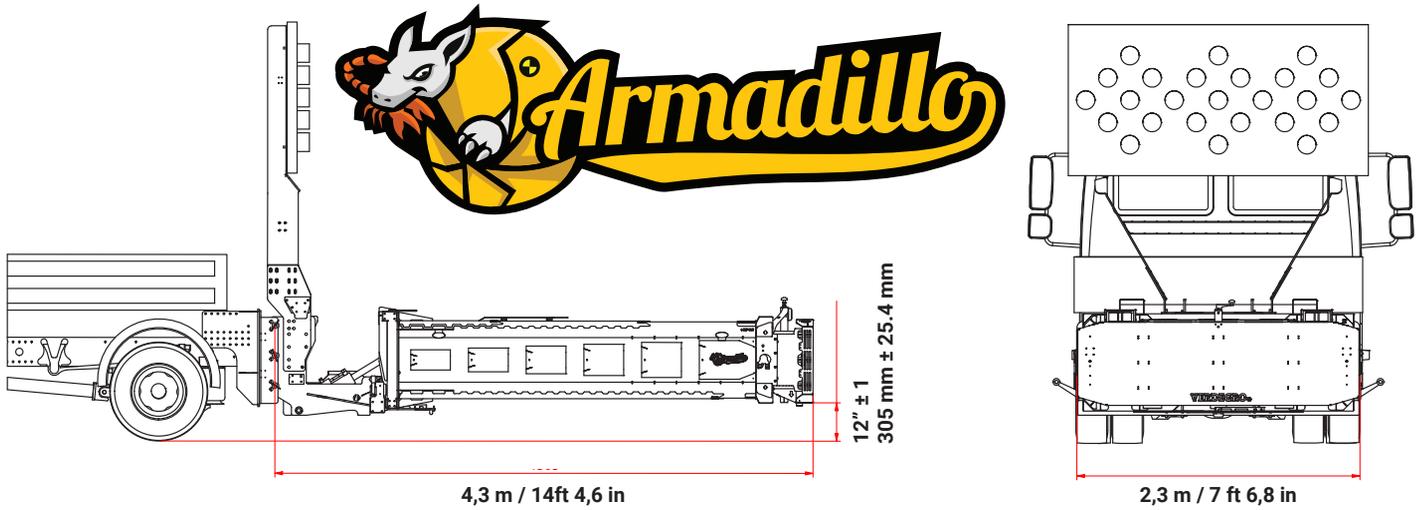
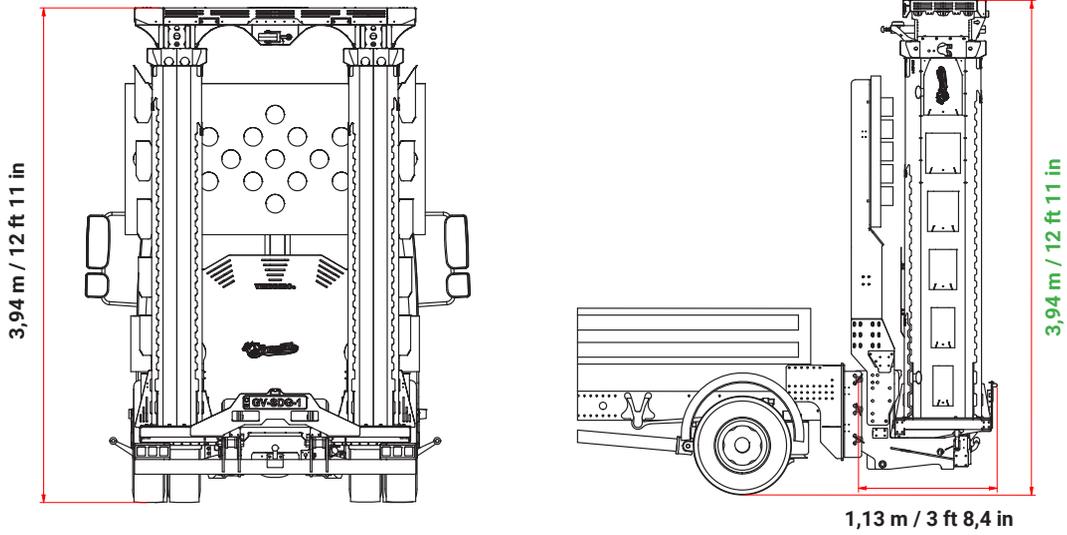
Transport height	<b>3940 mm / 12 ft 11 in</b>
Installation length, excluding bracket	4360 mm / 14 ft 3,7 in
Width	2300 mm / 7 ft 6,6 in
Level system	± 4 degrees
Hood to road	12"± 1"
Weight complete installation	Approx. 950 kg / 2095 lbs
Minimum weight support truck	7228 kg / 15,935 lbs
Maximum weight support truck	11,247 kg / 24,792 lbs
Maximum roll-ahead distance	7250 mm / 23 ft 9,3 in

Note: all these dimensions are approximately, no rights can be derived.

**THE ARMADILLO FEASTS ON INSECTS AND SMALL ANIMALS... YES, EVEN SCORPIONS!!!**



**ARMADILLO MASH TL-3**



Transport position

**ARMADILLO ACCESSORIES:**

- Quick connect: easy to swap attenuator and arrow board by forklift (standard)
- Multi-truck bracket: MASH approved (optional)
- Arrow board bracket: MASH approved (optional)
- Jockey wheels (optional)
- Reflective foil chevrons according to country specifications (optional)



Operational position

## THE FACTS

### ENGINEERED FOR REAL-WORLD RELIABILITY

The Armadillo TMA is designed for today's roads and real working conditions, offering high-quality performance with minimal maintenance and easy-to-use operation for traffic management.

### THE UPRIGHT DESIGN

The transport position of the Armadillo TMA is 3,94 m / 12 ft 11 in. The upright configuration preserves full access to the truck's flatbed. No obstructions on the flatbed that limit usability when the system is in transport position. This way operators retain complete use of the flatbed.

Rather than reducing height at the expense of day-to-day functionality, the Armadillo TMA is optimized for practical operation in active road maintenance conditions.

### SINGLE-STAGE DEPLOYMENT

The Armadillo TMA in horizontal operational position has a total length of 4.3 m / 14 ft 4.6 in from the rear of the vehicle. The system consists of a single cushion element that deploys in one continuous motion in less than 20 seconds while driving 50 mph / 80 kph.

By eliminating secondary extension stages, deployment remains consistent and straightforward. This reduces mechanical complexity and allows the system to reach operational status quickly and predictably.

### COMPACT DESIGN

With an overall width of 2.3 m / 7 ft 6,8 in, the Armadillo TMA maintains a slim, design while still offering sufficient coverage to safely protect against crashes. This balance between compact dimensions and functional coverage allows the system to operate easily in narrow lanes and constrained work zones, without unnecessary overhang and with the Armadillo TMA offering the shortest possible turning circle.

### MECHANICAL SIMPLICITY

The Armadillo TMA operates without sensors or reliance on electronic feedback systems, significantly reducing the number of potential failures. This simplified design makes the system easier to maintain in harsh and demanding environments. Additionally, due to the position of the hydraulic rams, there are no oil leaks or environmental risks in the crash zone.

### FULL SCALE CRASH TESTED

Our safety performance extends beyond the attenuator itself. The arrow board bracket and the multi-truck bracket have also been crash tested as part of an integrated system. This confirms that all structural components perform together as intended, ensuring controlled energy management across the entire assembly in the event of an impact.

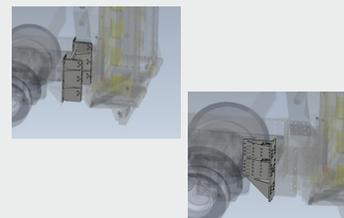
### INTERESTED?

Interested in discovering what the Armadillo TMA can do for your operations? Our sales team is ready to answer your questions, provide detailed information, or discuss how the Armadillo TMA fits your specific needs. Feel free to contact us at [sales@verdegro.com](mailto:sales@verdegro.com)

## ACCESSORIES



Quick connect (standard)



Multi-truck bracket



Arrow board bracket



Jockey wheels



Reflective foil chevrons according to country specifications

**A SCORPION FOLDS,  
THE ARMADILLO ABSORBS**



**KEEP IT EVEN SIMPLER... WITH THE ARMADILLO TMA**



**1** **COMPLETE DIFFERENT DESIGN**  
The Armadillo TMA does not extend and therefore requires no moving or additional parts.



**2** **SHORTEST WHEELBASE AND TURNING CIRCLE**  
Protect your road workers and road users with the safest, most innovative TMA on the market, featuring the shortest possible wheelbase and turning circle.



**3** **MAXIMUM LOADING SPACE**  
With the Armadillo TMA, the operator will not lose any space on the truck's flatbed as with a fold-over attenuator.



**4** **EASY TO MAINTAIN**  
The Armadillo TMA is the most affordable and easiest-to-maintain crash cushion, certified & approved to MASH 2016 TL-3 standard.



**5** **ZERO FUSES**  
No fuses required – the Armadillo TMA simplifies operation like no other.



**6** **SINGLE PIVOT POINT**  
The Armadillo TMA's single-pivot modular design allows for low-cost repairs and full replacement in 4 hours, with hydraulics and truck mount remaining intact in 98% of the impacts.



**7** **FAST DEPLOYMENT UNDER 20 SECONDS**  
Fast deployment under 20 seconds, from transport to full operational mode, even while driving at speeds up to 50 mph / 80 kph on flat surface roads.



**8** **BUILT TO LAST**  
All steel parts of the Armadillo TMA are galvanised, providing superior corrosion resistance and long-lasting durability.

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**CLEAN AND SAFE DESIGN**

No hydraulic hoses or extra pivot points in the impact absorbing area, eliminating all environmental risks and oil spillage. The two hydraulic cylinders and the powerpack are located inside the attenuator mount.

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**UNIQUE DESIGN**

The Armadillo TMA requires no extension and is the only crash cushion in the world under 4 meters in transport position, certified & approved to MASH 2016 TL-3.

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**ZERO PC BOARDS**

The Armadillo TMA runs without a PC board, for a simpler, more reliable operation.



✓ 12

**ZERO SENSORS**

The Armadillo TMA operates without any sensors.



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**APPROVED AS DESIGNED**

No design or structural modifications were needed during final crash testing of the Armadillo TMA – built to perform perfectly from the start.

✓ 14

**LOW ADDITIONAL COSTS FOR ARROW BOARD FRAME**

The Armadillo TMA requires no expensive foldable or hydraulically raised arrow board frame.

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**NO VEHICLE INTRUSION**

The Armadillo TMA's patented design prevents vehicles from driving underneath the cushion, unlike some other TMA systems.



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**TRUE TO REAL LIFE OPERATIONS**

The Armadillo TMA is not mounted to the road, ensuring crash tests remain realistic due to suspension behavior. Infinite weight testing has no value, as TMA trucks are not bolted to the road surface in real-life operations. Roll-ahead distance is key to protect road workers from impact.

