



TALUS AIRFLOW SYSTEM®

With Improved Ballistic Impact Reduction

The **Talus Airflow System® (TAS)** consists of a compression-fit base layer that wicks away sweat combined with eight specially-engineered, custom positioned shock absorbers attached along Velstretch panels to create a small gap between the gear and the body, creating airflow channels and ensuring a customized fit that does not lead to abrasions and injury. Most critically, the system offers increased enhancements to ballistic protection by reducing and dispersing the strike energy, defeating armor piercing ammunition, and decreasing odds of injury and fatality. Ballistic testing shows 25% to 85% improvement in energy dispersion within the ballistic plate (not transferred to the body) depending on the size and speed of the projectile.



When TAS is worn in place of the PCS Combat T-Shirt the soldier can wear their plate carrier and load bearing equipment as normal, while receiving the benefit of substantially reduced ballistic impacts and heat.

- *Increased Combat Effectiveness* – Substantially reduces ballistic impacts to the body, and the amount of time soldiers need to recover and re-engage the enemy.
- *Reduction of Heat Injury and Fatigue* - System allows for a substantial increase in airflow under the soldier’s body armor, ghillie suit, CBRN or EOD protective suit.
- *Enhanced Human Performance* - Allows the soldier to stay in the field longer, with less fatigue, resulting in greater longevity of mental focus and physical stamina.

The TAS Platform is TRL 9. The platform has been field tested in simulated battle conditions and in LEA across the nation. NTS Chesapeake ballistic testing indicates up to 85% reduction in back face deformation to a Level III plate.

Testing our system at Fort Bragg with a round designed to penetrate tank armor indicated that the TAS abated the ballistic shock wave and resulting internal trauma, improving a soldier’s survivability ratio from 95% instantly killed to a 10% chance of living beyond the engagement – “quite literally the difference between visiting someone in a recovery room rather than at a grave side.” (Army Special Forces Warrant Officer)

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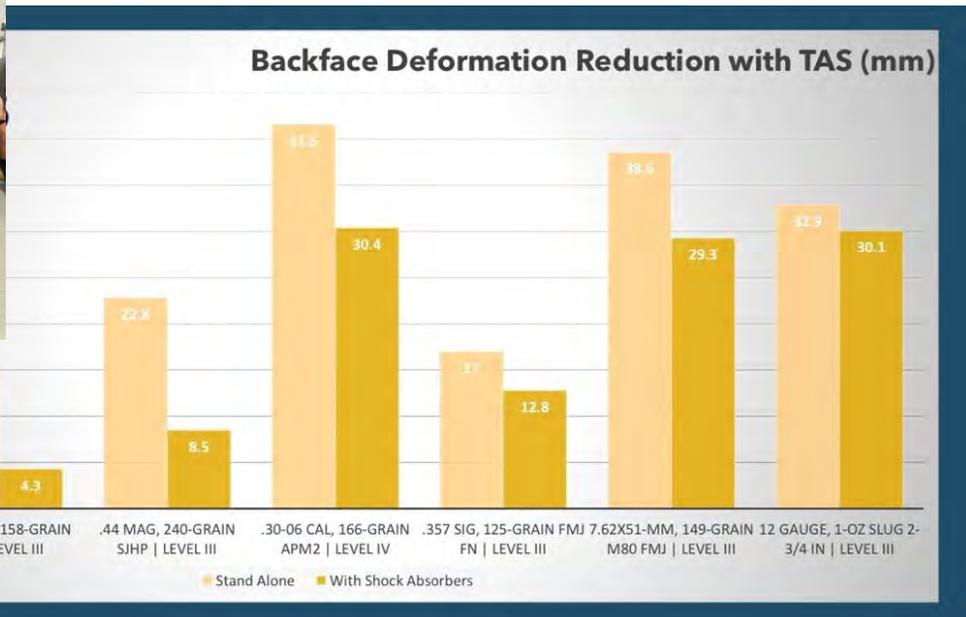


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Talus Airflow System® - Ballistic Performance



Talus Ridge's TAS increases the performance of the ballistic plate by reducing the back face deformation impact by up to 14mm. The greatly decreases the impact to the soldier, keeping them in the fight longer.



Left, backface deformation of a Level IV Hesco Plate by an APM2 Projectile. Right, deformation of a Level IV Hesco Plate by an APM2 Projectile when worn over TAS.



Bottom two projectiles significantly deformed by ballistic plate when worn over TAS

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