

PIP

JSP®

EVO[®] ALTA[™] ASCEND[®]
HIGH
PERFORMANCE
HEAD PROTECTION



evolta™
ASCEND



EVO[®] ALTA[™] ASCEND[®]

280-EVOALT - Non-Vented
280-EVOALTV - Vented

EVO[®] ALTA[™] Ascend[®] offers all-around impact and penetration protection, meeting ANSI/ISEA Z89.1-2014 Type II requirements. The climbing-style safety helmet features a specialized shell structure and internal EPP liner to increase durability and shock absorption performance. Precise adjustment settings enable a secure fit, ensuring the helmet remains stable.

Engineered to maximize compatibility and accessory integration, EVO[®] ALTA[™] Ascend[®] is an adaptive system with built-in attachment points, an interchangeable front module, and adjustable EN 12492 chinstrap.









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SPECIFICATION



EVO[®] ALTA[™] ASCEND[®]

Standards	ANSI Z89.1 Type II EN 12492 (retention system requirements)	
Chinstrap strength	 >500N	
Ventilation	Vented option	Non-vented option
Electrical class	Class C – no electrical insulation	Class E – tested at 20,000V
Force transmission (top)	 8 lb at 18 ft/s	
Impact energy attenuation (sides, front, rear)	 11 lb at 11.5 ft/s	
Penetration resistance	 2.2 lb at 23 ft/s	
Off-center penetration (sides, front, rear)	 2.2 lb at 16.4 ft/s	
Shell material	ABS	
Liner material	EPP	
Operational temperature range	 -22°F +140°F	
Weight	1.2 lb approx.	



STANDARDS EXPLAINED

EVO® ALTA™ Ascend® meets the Type II requirements of ANSI Z89.1 with additional retention system testing to EN 12492, the European standard for mountaineering helmets.

ANSI Z89.1 TYPE II IMPACT

ANSI Z89.1 Type II requirements include impact testing to the top, sides, front and rear of the helmet.



Force transmission is tested with an 8 lb mass dropped from a height that yields an impact velocity of 18 ft/s striking the top of the helmet.

ANSI Z89.1 TYPE II PENETRATION

Penetration testing assesses protection offered to the top, sides, front and rear of Type II helmets.



Apex penetration is tested with a 2.2 lb penetrator dropped to yield an impact velocity of 23 ft/s striking the top of the helmet.



For impact energy attenuation testing, the helmet is fitted to an 11 lb headform and dropped to yield an impact energy of 11.5 ft/s striking the side, front and rear areas within the test zone.



Off-center penetration is tested by rotating the headform and dropping the same 2.2 lb penetrator to strike the helmet at 16.4 ft/s within the test zone, assessing protection to the sides, front and rear.

ANSI Z89.1 TYPE II CHINSTRAP TESTING

Type II helmets with optional chinstraps are subject to chinstrap testing.



The chinstrap is shock loaded by allowing a 22.2 lb mass to fall through 4 in. The chinstrap must remain connected and elongation must not exceed 1 in.

ANSI Z89.1 TYPE II ELECTRICAL TESTING

Helmets are classified and tested for electrical protection:

- Class G (General) – tested at 2,200V
- Class E (Electrical) – tested at 20,000V
- Class C (Conductive) – no electrical protection

EN 12492 RETENTION SYSTEM REQUIREMENTS

The EN 12492 European mountaineering helmet standard includes additional requirements for chinstrap testing.

- Retention system strength (clause 4.2.3) requires testing to ensure chinstraps do not break or elongate further than 1 in. when a force of 112 lbf is applied.
- Retention system effectiveness (clause 4.2.4) requires a 22 lb mass to be dropped on the front and rear of the helmet, which must stay secure on the headform.

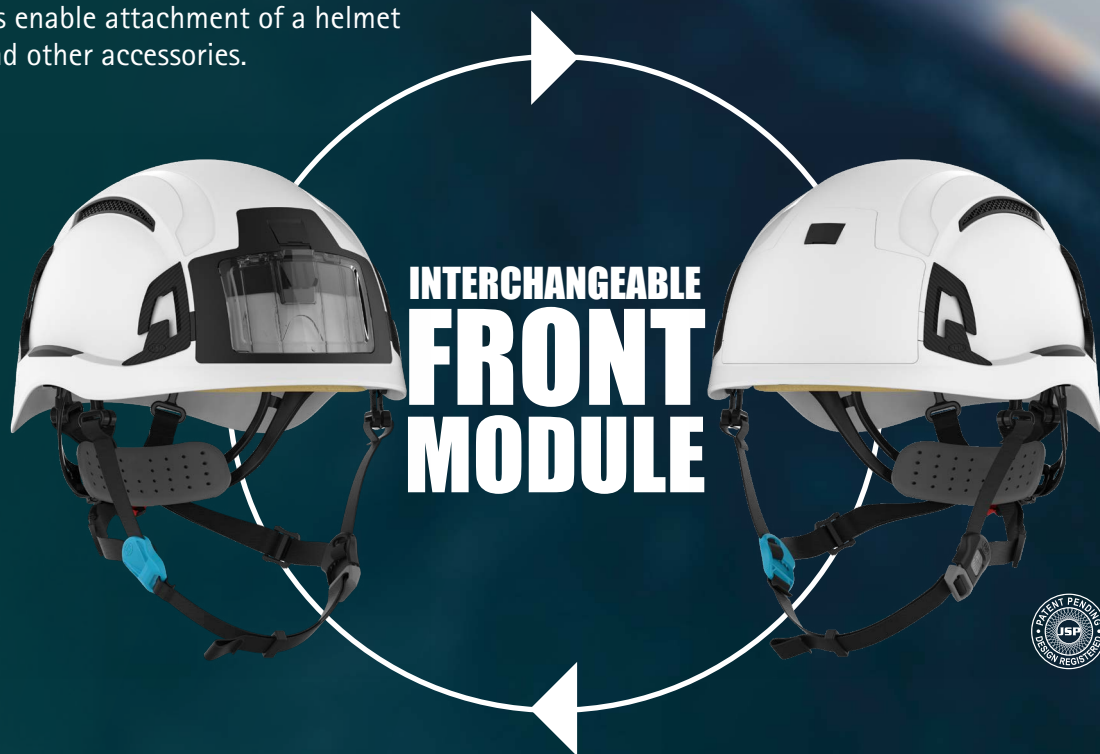
INDEPENDENTLY TESTED

EVO® ALTA™ Ascend® has been independently tested to ANSI Z89.1 Type II and EN 12492 retention system requirements, verifying the safety helmet's performance at a nationally recognized testing laboratory.



UP FRONT & PERSONAL

EVO® ALTA™ Ascend® features a unique interchangeable front module. Select the integrated ID card holder* for on-site identification or choose the logo-ready standard front to apply company branding. Both front modules enable attachment of a helmet lamp and other accessories.



COMPATIBILITY & ACCESSORIES

EVO® ALTA™ Ascend® maximizes compatibility and accessory integration. Attachment points on the helmet shell enable firm fitting of Sonis® earmuffs, EVOGuard™ visors and a range of other accessories.



ALL-AROUND PROTECTION

EVO® ALTA™ Ascend® provides all-around protection with top, side, front and rear shock absorption and penetration performance. The helmet is designed with an extended nape section to offer greater neck coverage.

CUSTOM BRANDING

Helmets can be customized to meet a corporate identity. Logo printing is available for the standard front module, helping to increase brand recognition and discourage theft. MOQs apply.

DUAL VENTILATION

Side and rear ventilation reduce temperatures by an average 5-7 degrees Fahrenheit. EVO® ALTA™ Ascend® is available in a non-vented version to provide Class E electrical insulation.

EPP LINER

The helmet features an internal impact liner made from lightweight expanded polypropylene (EPP) to increase shock absorption and penetration protection.

INCREASED AIRFLOW

EVO® ALTA™ Ascend® is designed to keep the wearer cool. The textile suspension harness creates clearance between the head and EPP liner, increasing airflow within the helmet shell.

MAXIMUM COMFORT

The Revolution® Flex wheel ratchet harness secures the helmet, eliminating pressure points to provide maximum comfort. Fitted with a replaceable Chamlon™ cotton sweatband.

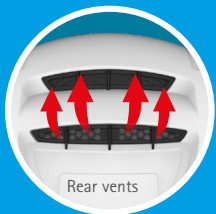
SECURE FIT

3D-Adjustment depth settings enable the most precise fit attainable on a safety helmet. The harness cradles the head to keep the helmet stable with an adjustable 4-point chinstrap for increased security.

REPLACEABLE 4-POINT CHINSTRAP

The 4-point chinstrap is easy to adjust on the head. Size and anchorage point adjustment enable a tailored fit for different head sizes, ensuring stability and greater comfort.





Rear vents

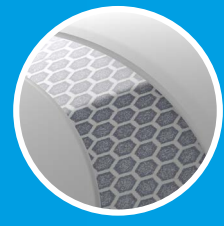
Dual ventilation - reduce temperatures by an average 5-7 degrees Fahrenheit



ABS shell offers top, side, front and rear impact protection

Increased airflow

Lightweight EPP internal impact liner

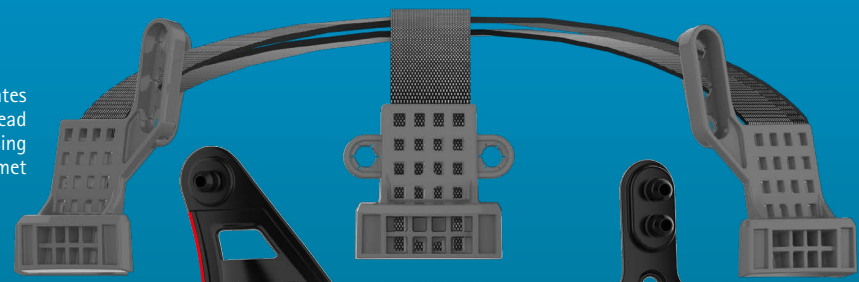


CR2 Reflective available for increased visibility (sold separately)

Extended nape section

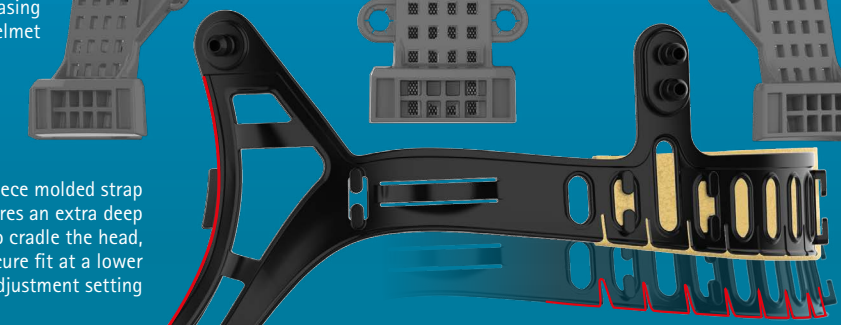


Suspension harness creates clearance between the head and EPP liner, increasing airflow within the helmet



The one-piece molded strap design features an extra deep nape strap to cradle the head, offering a secure fit at a lower adjustment setting

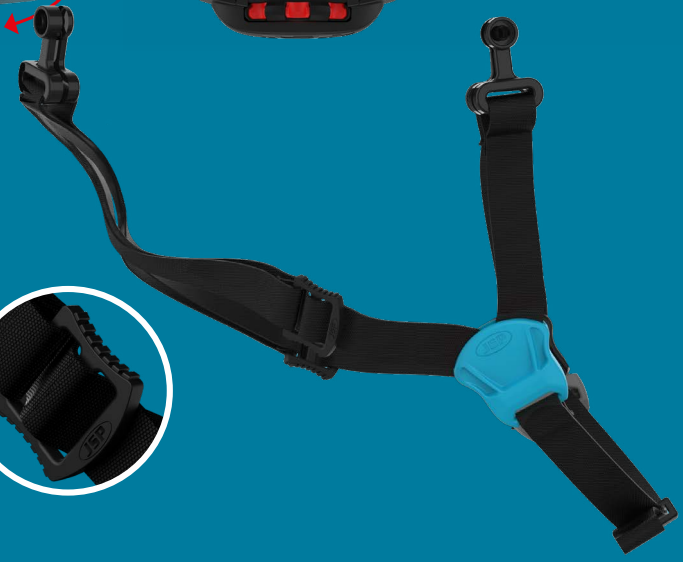
Castellated sections around the forehead area allow the strap to stretch and flex as the harness is tightened



Flexible comfort pad conforms to the back of the user's head



Chinstrap adjustment enables a tailored fit





ASCEND



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