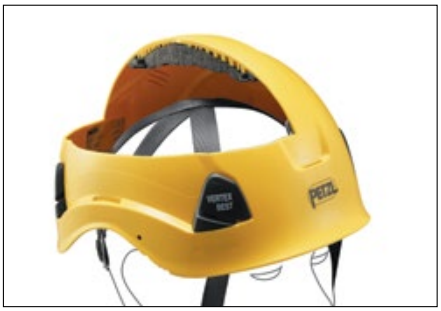
# Helmets

In the absence of specific European helmet standards for work at height, Petzl applies different existing standards to develop its line of helmets suited to the needs of professionals.

| | | VERTEX BEST | ALVEO BEST | VERTEX VENT | ALVEO VENT | VERTEX ST |
|---|---|---|---|---|---|---|
| Protection against mechanical impacts | EN 397 | ● | | ● | | ● |
| | EN 12492 | ● | | ● | | ● |
| Ventilation | EN 12492 | – | | ● | | – |
| Protection against electrical hazards | EN 397 | ●(5) | | – | | ● |
| | EN 50365 | ●(5) | | – | | ● |
| Reduced risk of choking in case of helmet snagging | EN 397 | – | | – | | ●(1) |
| Reduced risk of the helmet coming off in a fall | EN 12492 | ●(2) | | ●(2) | | – |
| Protection against molten metal splash | EN 397 | ● | | – | | ● |
| Protection against lateral deformation | EN 397 | ● | | ● | – | ● |
| Use at low temperatures | EN 397 | ● | | ● | – | ● |
| **European certifications:** | | CE | | CE EN 12492 (4) | | CE EN 397, CE EN 50365 |
| **U.S. certifications:** | | ANSI Z89.1-2009 Type I Class E (5) | | ANSI Z89.1-2009 Type I Class C (4) | | ANSI Z89.1-2009 Type I Class E |
| **Canadian certifications:** | | CSA Z94.1-05 Type 1 Class E (3, 5) | - | - | | - |

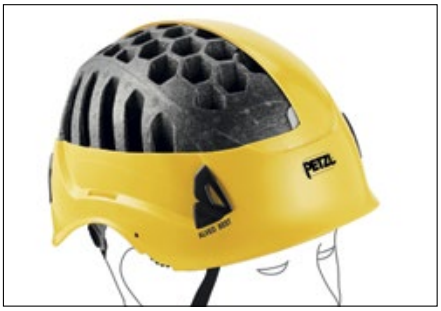
(1) Chinstrap designed to release if snagged when the user is at ground level (strength < 25 daN).
(2) Strong chinstrap limits risk of helmet coming off in a fall (strength > 50 daN).
(3) See relevant references in the table on page 71.
(4) ALVEO VENT is also UIAA certified.
(5) VERTEX BEST DUO LED 14 is not certified to EN 397, nor to EN 50365, with respect to protection against electrical hazards. It is not certified to ANSI Z89.1-2009 type I class E, nor to CSA Z94.1-05 type 1 class E.

### • Comfortable construction



VERTEX helmets have a six-point webbing suspension system, conforming to the shape of the head for maximum comfort.
Shock absorption is achieved through deformation of the shell.
Weight: 455 g

### • Lightweight construction



ALVEO helmets have an internal expanded polystyrene foam liner for reduced weight.
Shock is absorbed by deformation of the expanded polystyrene liner.
Weight: 350 g