



### Area of use\*



### Technical features

Ear-muffs for safety helmet.

Adjustable cups (ABS).

Cushions (PU).

**Size:** SML.

**Weight:** 269 g.

**Colour:** black and red.

**Packaging:** carton of 20 boxes.

**Subpackaging:** individual box.



### Advantages

**Compatible with HIMA, ALPIN, IRIS2 and CAS7001 helmets.**

**Comfortable and flexible wearing even for prolonged use.**

**Simple and quick installation** thanks to the integrated adaptors.

**Simplified adjustment** thanks to the articulated arms.

### Certification

This product complies with **European Regulation (EU) 2016/425**

on Personal Protective Equipment (PPE). **Category III.**

Issued by **ALIENOR CERTIFICATION**, notified body n°2754.

**EN 352-3 : 2020 / SNR 28 dB (H: 28 dB / M: 27 dB / L: 21 dB)**



**CE 2754**

Download the EU declaration of conformity on <https://docs.singer.fr>

## STANDARDS

|                         |   |
|-------------------------|---|
| <b>EN 397</b>           | Industrial safety helmet.   |
| <b>EN 50365</b>         | Electrically insulating helmets for use on low voltage installations. |
| <b>EN 13087-1 to 10</b> | Protective helmets: test methods.                                     |
| <b>EN 812</b>           | Industrial bump caps.   |
| <b>EN 14052</b>         | High performance industrial safety helmets.                           |
| <b>EN 12492</b>         | Mountaineers helmets  |


### EN 397 - INDUSTRIAL SAFETY HELMET

|                                |   |
|--------------------------------|---|
| <b>Obligatory requirements</b> | <ul style="list-style-type: none"> <li>- Shock absorption</li> <li>- Penetration resistance</li> <li>- Flame-resistance</li> <li>- Chin-strap anchorage points</li> <li>- Release of the chinstrap (between 150 and 250 N)</li> </ul> |
| <b>Optional requirements</b>   | Optional additional requirements are applicable only when specifically demanded by the manufacturer of the helmet.  |

### EN 12492 – MOUNTAINEERS HELMETS

|                                |  |
|--------------------------------|--|
| <b>Obligatory requirements</b> | <ul style="list-style-type: none"> <li>- Shock absorption</li> <li>- Penetration resistance</li> <li>- Ventilation</li> <li>- Resistance of the chinstrap (500 N)</li> </ul> |
| <b>Optional requirements</b>   | Optional additional requirements are applicable only when specifically demanded by the manufacturer of the helmet.   |

### EN 50365 - ELECTRICALLY INSULATING HELMETS

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|  | <p>For staff working on or near energized parts facilities not exceeding 1000 V AC or 1500 V DC (Class 0). These equipments, combined with other protections, should avoid dangerous currents to cross through the head.</p> |
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### EN 812 - INDUSTRIAL BUMP CAPS

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| <p>This standard specifies the physical and performance requirements, the testing methods and the marking requirements of the bump caps for industry.</p> <p>The bump caps for industry are intended to protect the wearer when he hits his head against hard and stationary objects with sufficient force to cause lacerations or other superficial injuries. They are not intended to protect from the effects of projections or the falling of suspended or moving objects or loads.</p> <p>One should not confuse the bump caps for industry with the protection helmets for industry specified in EN 397.</p> |
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## STANDARDS

|                 |   |
|-----------------|---|
| <b>EN 352-1</b> | Hearing protectors.<br>Part 1: Ear-muffs.                             |
| <b>EN 352-2</b> | Hearing protectors.<br>Part 2: Ear-plugs.                             |
| <b>EN 352-3</b> | Hearing protectors.<br>Part 3: Ears-muffs mounted on helmet (EN 397). |

### DAILY MAXIMUM EXPOSURE TIME

|              |                          |
|--------------|--------------------------|
| <b>80 dB</b> | 8 hours                  |
| <b>83 dB</b> | 4 hours                  |
| <b>86 dB</b> | 2 hours                  |
| <b>89 dB</b> | 1 hour                   |
| <b>92 dB</b> | 30 minutes               |
| <b>95 dB</b> | 15 minutes               |
| <b>98 dB</b> | 7 minutes and 30 seconds |

### EN 352-1 - EARS-MUFFS

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| <p>This standard specifies the requirements in field of construction, conception, performance and printing of ears-muffs as well as information for end-user.</p> <p>It stipulates particularly the acoustic fading of ears-muffs in conformity with the EN 24869-1.</p> <p>This standard does not apply to ear-muffs to be mounted on safety helmets or integrated to helmets.</p> |
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### EN 352-2 - EARS-PLUGS

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| <p>This standard specifies the requirements in field of construction, conception, performance and printing of ears-plugs as well as information for end-user.</p> <p>It stipulates particularly the acoustic fading of ears-plugs in conformity with EN 24869-1 standard.</p> |
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### EN 352-3 - EARS-MUFFS MOUNTED ON HELMET

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| <p>This standard specifies the requirements for the construction, conception, performance and printing of ears-muffs mounted on safety industrial helmets in conformity with EN 397 standard as well as information for end-user. It stipulates particularly the acoustic fading of ears-muffs mounted on industrial helmets in conformity with EN 24869-1. As a same ear-muff can be mounted on different models or sizes of industrial safety helmets, the current part of standard specifies many physics and acoustic requirement depending the models or the helmetsize ear-muffs are mounted on.</p> <p>Requirements apply totally to the basic combination, that is to say helmet and ear-muffs mounted on one model or on one of the specified size of helmets.</p> <p>Requirements apply partially only to the additional combination, that is to say ear-muffs of the same model but attached on other helmets or sizes than the specified ones.</p> |
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