

A- What is ANSI?

The American National Standards Institute (ANSI) is an organization which supervises the development of product, service and process standards in the United States. These standards are proposed through a voluntary and consensual process.

The standards validated by ANSI guarantee that product performance and characteristics are consistent, that each manufacturer uses the same terms and definitions, and that the products are tested everywhere in the same way.

These standards are adopted on a voluntary, consensual basis and so are rapidly disseminated, allowing the user to compare products more easily. ANSI is the United States ISO representative.

B- The ANSI/NEMA standard for Petzl headlamps

The ANSI/NEMA FL1 standard concerns all portable lighting products (flashlights, spotlights, headlamps). It was developed through the collaboration of fourteen manufacturers, including Petzl.

This standard aims to offer consumers harmonized information about the performance of each product. This harmony is based on the definition of a common protocol for measuring product performance. Therefore, each manufacturer affiliated with the ANSI standard must follow the defined protocol for measuring performance.

C- Comparison of the ANSI approach with the Petzl approach

Petzl carries out product testing following the protocol defined by the ANSI/NEMA standard and communicates the results following the associated standard charter.

At the same time, however, Petzl chooses to continue to prioritize providing information by following our own performance testing protocols. They have in fact been used by Petzl for many years and meet our numerous quality requirement criteria.

These two protocols differ in particular in the procedures for measuring distance and battery life:

ANSI	PETZL
Distance measurement	
The distance indicated is the value measured between 30 seconds and 2 minutes of use.	The distance indicated is the stabilized value. In fact, the batteries discharge rapidly when first turned on, and then stabilize thanks to the regulation system. Petzl calls this the "useful work" lighting distance.
Battery life measurement	
The time indicated corresponds to the length of time the headlamp will function until lighting is less than 10 % of initial lighting (measured between 30 seconds and 2 minutes of use).	The time indicated corresponds to the length of time before "useful work" lighting diminishes and switches to reserve mode.

This way, the user can find Petzl values and ANSI values for comparison on the same product package. The ANSI standard will also be indicated on the product instructions and explained on the internet.

Example:

