

Aluminium HE passive safe poles

- Fully certified and endorsed by a Notified Body
- Sustainable



High energy (HE) absorbing poles slow down the vehicle considerably on impact. The risk of secondary collisions with trees, pedestrians and other road users is reduced. In urban areas where risk of a secondary accident is high, poles require a high energy absorbing classification.

The best high energy absorption class is 100-HE-NR-NR-NS-MD-0 : the pole remains connected to the site (NS) and the occupants are not injured after the primary impact by the pole hitting on the roof (0).

In order to comply with performance classe 100-HE-NR-NR-NS-MD-0, Hydro has integrated a 'catch-up' system into the pole. This patented construction ensures that, during impact, the speed of the vehicle is not only significantly reduced from 100 km/h to a residual speed of up to 50 km/h, as the standard prescribes, but the car is even brought to a complete stop. Moreover, at a standstill there is also no secondary danger for occupants and third parties.

In compliance with standards and regulations:

- Design in accordance with the European standard EN 40-6
- Calculations according to the European standard EN 40-3-3
- Passively safe according to EN 12767 - see certificate EN 40

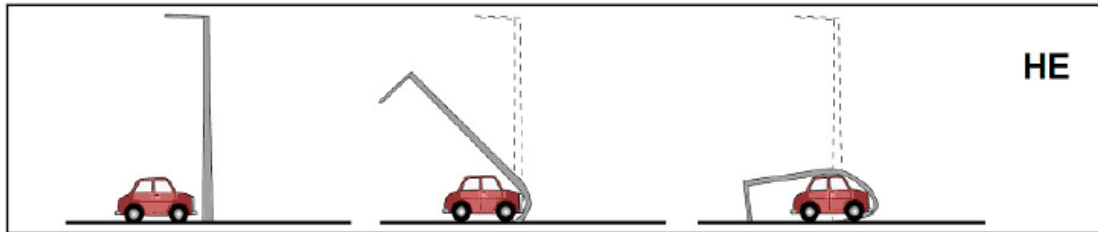
Bracket options (see PDS-ENX.32.02.001):

- Fixed brackets
- Cast piece brackets
- Invisible joint brackets

Installation options

- Solid and Rigid
- Bottom plate

Schematic behaviour HE poles



HE poles, conical and cylindrical stepped available from 8-15m

Height (m)	Base diameter x wall thickness (mm)	Length ground piece* (mm)	Foundation type	Passive safe classifications
8	200 x 3.3 (with catch-up system)	2000	Soil and Rigid* Bottom plate	50-HE-C-S-NS-MD-0 70-HE-C-S-NS-MD-0 100-HE-C-S-NS-MD-0
8-12	200 x 3.3 / 226 x 3.3 (with catch-up system)	2000	Soil and Rigid* Bottom plate	50-HE-D-S-NS-MD-0 70-HE-D-S-NS-MD-0 100-HE-D-S-NS-MD-0
15	226 x 3.3	2000	Soil and Rigid*	100-HE-D-S-SE-MD-0

* Length ground piece differs per country, depending on the applicable standard

Technical characteristics:

- Seamless tube made of aluminium extrusion;
- Alloy EN AW6060 T66 ;
- 100% recyclable;
- Flush fitting door with 2 triangular locks;
- Welded reinforcement profile at the inside of the door section, complete with mounting rail (2x M6 slip nuts + 1x M8 earth nut);
- Ground piece protected with corrosion protective tape (color grey or black);
- Optional ground level protector (PDSSEN.37.02.001);
- Cable entry slot incl. protection cap;
- Surface brushed finish, electrostatic powder coating, anodized.