

Aluminium HE passive safe poles

- Fully certified and endorsed by a Notified Body (CE + UKCA)
- TOPAS registered
- 100% recyclable



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.

Local technical support available in the UK.

In compliance with standards and regulations:

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

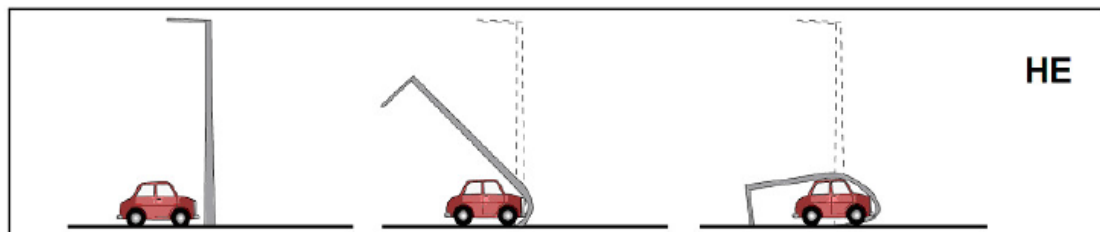
Bracket options (see PDSEN/UK.32.02.001):

- Fixed brackets
- Cast piece brackets
- Invisible joint brackets

Installation options

- direct planted in soil
- sleeved / socket

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*	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*	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

*For UK all classes are valid for Soil AND Rigid, see foundation disclaimer.pdf based on the NA to BS EN12767

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) and mounted wooden backboard;
- Extra earth nut M8 at the inside of the door;
- Ground piece protected with corrosion protective grey tape + ground level protector;
- Cable entry slot incl. protection cap;
- Surface brushed finish, electrostatic powder coating, anodized.