

Aluminium NE passive safe poles

- Fully certified and endorsed by a Notified Body
- Sustainable



Non energy (NE) absorbing poles allow the vehicle to continue after an impact with a limited reduction in speed. They therefore represent a lower primary injury risk than energy absorbing support structures.

NE-D and NE-C poles are standard poles that often naturally exhibit passive safety qualities due to the material properties of aluminum and require no extra engineering solutions.

NE-B is the safest passive safe classification for medium and high speed roads. The impact speed of non energy (NE) absorption combined with occupant safety level B demands special features from a pole. Hydro therefore developed a shear-off solution. This in-built solution is unique as it will shear-off in the event of a collision and is unaffected by the direction of the impact. The solution is based just above the ground level of the pole.

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 PDSEEX.32.02.001):

- Fixed brackets
- Cast piece brackets
- Invisible joint brackets

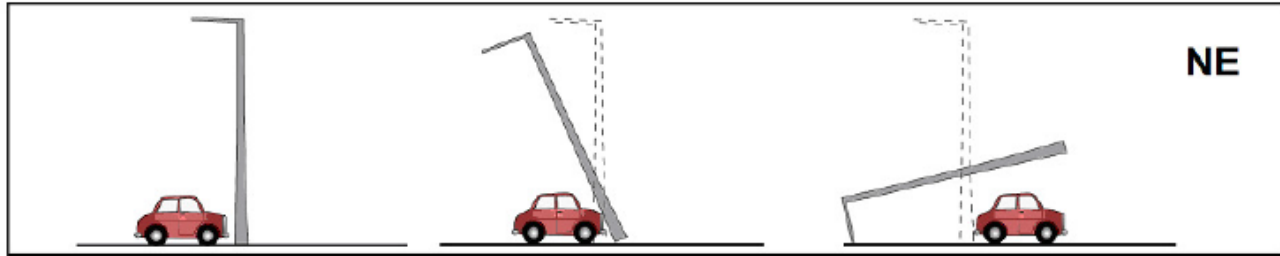
Installation options energy absorption category D or C:

- Planted in the ground

Installation options energy absorption category B:

- TOAD (prefab foundation) in any soil or rigid
- Sleeved in any soil
- Socket in concrete

Schematic behaviour NE poles



NE poles, conical and cylindrical stepped available from 2-15m

Height (in m)	Base diameter x wall thickness (in mm)	Foundation type	Passive safe classifications
2-15	145 x 3.0; 165 x 3.3; 200 x 3.3; 226 x 3.3; 226 x 4.5; 250 x 4.0 (all with shear-construction)	TOAD in any Soil (X) or Rigid (R, concrete)	50-NE-B-X-SE-MD-0 / 50-NE-B-R-SE-MD-0 70-NE-B-X-SE-MD-0 / 70-NE-B-R-SE-MD-0 100-NE-B-X-SE-MD-0 / 100-NE-B-R-SE-MD-0
2-10	114 x 2.5; 114 x 3.0; 120 x 3.0; 120 x 4.5; 135 x 3.0; 145 x 3.0; 165 x 3.3	Soil (S) or Rigid (R, concrete)	70-NE-C-S-SE-MD-0 / 70-NE-C-R-SE-MD-0 100-NE-C-S-SE-MD-0 / 100-NE-C-R-SE-MD-0
2-8	145 x 4.25; 175 x 4.0; 200 x 3.3; 226 x 3.3	Soil (S)	100-NE-C-S-SE-MD-0
8 -12	145 x 4.25; 175 x 4.0; 200 x 3.3; 226 x 3.3	Soil (S)	100-NE-D-S-SE-MD-0

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. Option anodized or electrostatic powder coating.