

## LIGHTNING PROTECTION AND EARTHING SYSTEM COMPONENTS

### Galvanized steel earth electrode type "E"<sup>TM</sup> Part numbers ELEMKO 63 01 001 & 63 01 002

#### Description

Earth electrode type "E"<sup>TM</sup>, made out of hot dip galvanized steel (St/tZn), consisting of an element type "Π" (pi) – part number ELEMKO 63 01 001 – and an element type "Γ" (gamma) – part number ELEMKO 63 01 002. It is equivalent to 6 earth rods 1.5m length positioned one to another in a distance of 3m. The element "Π" consists of two plates which have dimensions 500x500 mm and one plate which has dimensions 750x500 mm. The element "Γ" consists of one plate which has dimensions 500x500 mm and one plate which has dimensions 750x500 mm. It is ideal where the available area for earthing installation is limited or in areas with poor soil resistivity (i.e. rocky soil). It is extendable with additional "Γ" elements in order to achieve the required value of earthing resistance. For the connection to the conductor the earth electrode is equipped with a stainless steel (SS V2A) connector, part number ELEMKO 62 66 108.

#### Technical data – Installation instructions

Installation	➤ In ground, embedded in concrete
Electrical resistivity	➤ <0,25 μΩm
Tensile strength	➤ 290 – 510 N/mm <sup>2</sup>
Coating material	➤ Zinc
Coating thickness	➤ >500 g/m <sup>2</sup>
Type of coating method	➤ Hot dip

The above component has successfully passed the tests required by standard EN 50164-2 "Lightning protection components (LPC) – Part 2 : Requirements for conductors and earth electrodes". The tests were performed at ELEMKO high voltage and high current testing laboratory.  
Test report numbers : **30746 & 30747**

#### Drawing

