



# NEDAL HDPE GROUNDPART

Sustainable and cost-efficient

Sprayed

Permanently moist

Permanently wet



HDPE  
the new  
standard

## THE NEW STANDARD FOR SUSTAINABLE PUBLIC LIGHTING

Our lighting columns are standard sustainable. As a standard, lighting columns are equipped with a Nedal HDPE Groundpart. With this, Nedal shall always deliver the most sustainable lighting column with a longer lifespan. With the HDPE Groundpart, the aluminium lighting column is resistant to electrolytic (stray current) corrosion and is well protected against mowers, brush machines, construction paving, moisture, road salt, urine and parking accidents. In short, for optimal protection, far-reaching corrosion prevention and cost savings, our HDPE Groundpart is the best solution. This is also the conclusion of TNO. Our HDPE column was tested best and rated with a 9,9.

Protection	Qualification	Rating
HDPE Groundpart	excellent	9,9
Thermoplast with ground level protector	good	8

## General corrosion tests

The aluminium lighting columns were placed in damp peat soil and sprayed with RIVM 50x rainwater. This is similar to natural weather conditions. The resistance  $R_c$  is measured using the electro-chemical impedance measurement method. The registered value is indicative of the quality of the protection. The results are given in the table.

**TNO CORROSION TEST 9,9**  
Nedal Aluminium lighting columns

# No chance of corrosion

Lighting columns with an HDPE Groundpart are particularly resistant to stray current corrosion. The column is connected to the ground by an HDPE intermediate jacket. This construction guarantees excellent insulation at all times and as such, does not give the groundpart a chance to corrode. This construction also serves as a ground level protector.

## Contribution to our environment

Aluminium lighting columns in comparison to steel poles, already make an important contribution to our environment. Just think of less maintenance and longer lifespan. We also add our environmentally conscious production processes. For example, using as much recycled aluminium as possible without loss of quality of the end result.

## Benefits of Nedal HDPE Groundpart

- **No loose parts or mechanical joints**
- **No accumulation of dirt and moisture**
- **Ideal protection when mowing, brushing, laying paving, moisture, road salt, urine, corrosion and parking**



**Would you like more information?**  
Please contact us.

Extrusion &  
Lighting columns

**80 YEARS**  
specialists in aluminium



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## Focal point: stray current corrosion

Stray underground electrical currents can cause unprotected lighting columns to corrode more quickly. A well protected lighting column will hardly be affected. In order to measure the resistance to stray current corrosion test were conducted in which an electrical current was purposely fed through the column and the base section. This test clearly demonstrates the exceptional performance against stray current corrosion.

## Why **Nedal**

- ✓ Longer lifespan
- ✓ Low maintenance
- ✓ Climate neutral
- ✓ Production based on CSR (Corporate Social responsibility)
- ✓ CE-certified

