



Rue Ravensteinstraat 4, 1000 BRUSSELS

## Certificate of constancy of performance

**1148-CPR-20181229-981**

issued on the basis of the certification scheme specified in BRP CE and OPAC EN 40.

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

### Lighting columns for public lighting

placed on the market under the name or trade mark of

### HYDRO EXTRUSION DRUNEN BV

**Alcoalaan, 1**

**NL-5151 RW DRUNEN**

and produced in the manufacturing plant

**HYDRO EXTRUSION DRUNEN BV**

This certificate attests that alle provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standard

**EN 40-6:2002**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure

**the constancy of performance of the construction product.**

This certificate was first issued on 29/12/2018 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Brussels, 8/5/2023

Benny DE BLAERE, Managing director

The validity of the present certificate is confirmed if visible on the OCAB-OCBS website

## **CE Certificate: List of approved Aluminium Lighting Columns according to EN 40-6:2002**

### **Product family 0:**

- Columns with nominal height of 2 m to 18 m (columns with brackets) or to 20 m (post top columns), diameter 114 mm to 250 mm, nominal wall thickness 2.5 mm to 5.25 mm
- Trade name: MSI Neo Classic with nominal height of 2 m to 18 m (columns with brackets) or to 20 m (post top columns), diameter 170 to 264 mm, nominal wall thickness: profiled
- Passive safety according to EN 12767:2019, Performance class:
  - Class 0

### **Product family 1:**

- Columns with nominal height of 2 m to 15 m, diameter 114 mm to 250 mm, nominal wall thickness 2.5 mm to 4.0 mm; with internal shear-off mechanism, founded in any soil, special backfill type X but in combination with a two-piece precast concrete block on ground level ("TOAD"), or rigid, backfill type R,
- Passive safety according to EN 12767:2019, Performance classes:
  - 50-NE-B-X-SE-MD-0
  - 70-NE-B-X-SE-MD-0
  - 100-NE-B-X-SE-MD-0
  - 50-NE-B-R-SE-MD-0
  - 70-NE-B-R-SE-MD-0
  - 100-NE-B-R-SE-MD-0

### **Product family 2:**

- Columns with nominal height of 2 m to 10 m, diameter 114 mm to 165 mm, nominal wall thickness 2.5 mm to 3.3 mm, founded in standard soil, backfill type S or rigid, backfill type R,
- Passive safety according to EN 12767:2019, Performance classes:
  - 70-NE-C-S-SE-MD-0
  - 100-NE-C-S-SE-MD-0
  - 70-NE-C-R-SE-MD-0
  - 100-NE-C-R-SE-MD-0

### **Product family 3:**

- Columns with nominal height of 2 m to 8 m, diameter 114 mm to 226 mm, nominal wall thickness 2.5 mm to 3.3 mm, founded in standard soil, backfill type S,
- Passive safety according to EN 12767:2019, Performance class:
  - 100-NE-C-S-SE-MD-0

### **Product family 4:**

- Columns with nominal height of 2 m to 12 m, diameter 114 mm to 226 mm, nominal wall thickness 2.5 mm to 3.3 mm, founded in standard soil, backfill type S,
- Passive safety according to EN 12767:2019, Performance class:
  - 100-NE-D-S-SE-MD-0

## Product family 5:

- Columns with nominal height of 8 m to 12 m, diameter 200 mm, nominal wall thickness 3.3 mm, founded in standard soil, backfill type S
- Passive safety according to EN 12767:2019, Performance class:
  - 100-LE-C-S-SE-MD-0

## Product family 6:

- Column with nominal height of 10 m, diameter 226 mm, nominal wall thickness 3.3 mm, founded in standard soil, backfill type S,
- Passive safety according to EN 12767:2019, Performance class:
  - 100-LE-D-S-SE-MD-0

## Product family 7:

- Column with nominal height of 12 m, diameter 200 mm, nominal wall thickness 4.0 mm, founded in standard soil, backfill type S,
- Passive safety according to EN 12767:2019, Performance class:
  - 100-LE-E-S-SE-MD-0

## Product family 8-1:

- Columns with nominal height of 8 m, with root section of 2 m and bottom plate, diameter 200 mm, nominal wall thickness 3.3 mm; with a 10 m long, graphite covered and isolated stainless steel cable inside, d = 16 mm; founded in standard soil, backfill type S,
- Passive safety according to EN 12767:2019, Performance class:
  - 50-HE-C-S-NS-MD-0
  - 70-HE-C-S-NS-MD-0
  - 100-HE-C-S-NS-MD-0

## Product family 8-2:

- Columns with nominal height from 8 m to 12 m, with root section of 2 m and bottom plate, diameter from 200 mm to 226 mm, nominal wall thickness 3.3 mm; with a 10 m long, graphite covered and isolated stainless steel cable inside, d = 16 mm; founded in standard soil, backfill type S,
- Passive safety according to EN 12767:2019, Performance class:
  - 50-HE-D-S-NS-MD-0
  - 70-HE-D-S-NS-MD-0
  - 100-HE-D-S-NS-MD-0

## Product family 9:

- Column with nominal height of 15 m, diameter 226 mm, nominal wall thickness 3.3, founded in standard soil, backfill type S,
- Passive safety according to EN 12767:2019, Performance class:
  - 100-HE-D-S-SE-MD-0

## Product family 10:

- Trade Name: MSI Neo Classic, Columns with nominal height of 2 m to 12 m, diameter 170 mm to 200 mm, nominal wall thickness: profiled, founded: rigid, backfill type R,
- Passive safety according to EN 12767:2019, Performance class:
  - 50-NE-C-R-SE-MD-0
  - 70-NE-C-R-SE-MD-0
  - 100-NE-C-R-SE-MD-0

### Further characteristics and performances

- ✓ Material: aluminium alloy EN AW-6060 T66 according EN 755-2
- ✓ Cross sections: cylindrical circular, cylindrical circular stepped or conical circular unless specifically mentioned otherwise
- ✓ Post top columns or columns with single bracket or with double bracket
- ✓ with or without two-piece ground level protector
- ✓ General requirements and dimensions according to EN 40-2
- ✓ At least one door opening provided with reinforcement according to EN 40-6:2002
- ✓ Part below ground with cable entry slot or flange plate with cable entry opening
- ✓ Structural analysis according to EN 40-3-1 and EN 40-3-3 or tested according to EN 40-3-2
- ✓ Passive safety in accordance with EN 12767 tested by accredited laboratory

### IMPORTANT STATEMENT over EN 12767

These lighting columns were evaluated according to previous versions of the standard and are requalified according to the prescriptions of Annex L of EN 12767:2019 completed by the methodology described in <sup>(1)</sup>. The performance regarding roof indentation is as such as reported from the results of the tests performed in accordance to EN 12767, **taking into that the uncertainty admitted by this standard on roof deformation can in no way guarantee the same performance in actual crash situations.**

**Therefore and quite obviously, neither OCAB-OCBS nor the manufacturer can assume that in real conditions, the same performance as such recorded in the tests can be reproduced in all cases.**

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<sup>1</sup> <https://www.ocab-ocbs.com/NMRQEN127672019.pdf>

