



® **TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**
Technical and Test Institute for Construction Prague, SOE

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán • Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body • Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

Notified Body 1020

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1020 – CPR – 090-046405

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:

Aluminium lighting columns

Type: cylindrical

placed on the market under the name or trade mark of

DAV NORDIC A/S

INo: DK34991014
Address: Tietgensvej 12, DK-8600 Silkeborg, Denmark

and produced in the manufacturing plant:

DAV NORDIC A/S

Address: Tietgensvej 12, DK-8600 Silkeborg, Denmark

This certificate attests that all 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 January 22nd, 2020 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Stamp of the Notified Body 1020
Prague, January 22nd, 2020




Martin Pešek
Deputy manager of the Notified Body



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Branch 0900 – TIS

REPORT

**on the outcome of the assessment and verification of constancy
of performance of the product**

according to the Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011
(the Construction Products Regulation or CPR), Art. 1.2 of the Annex V (system 1)

No. 090-046404

Trade name:

Aluminium lighting columns

type: cylindrical

Manufacturer:

DAV NORDIC A/S

INo: DK34991014
Address: Tietgensvej 12, DK-8600 Silkeborg, Denmark
Plant: DAV NORDIC A/S
Address: Tietgensvej 12, DK-8600 Silkeborg, Denmark
Order: Z090190466

Number of pages including title page: 4

Number of Annexes: 0

Stamp of the Notified Body 1020

Prague, January 22nd, 2020



Ing. Michal Holík
Head Assessor

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1. General

1.1 Information about the manufacturer

DAV NORDIC A/S

INo: DK34991014

Address: Tietgensvej 12, DK-8600 Silkeborg, Denmark

Plant: DAV NORDIC A/S

Address: Tietgensvej 12, DK-8600 Silkeborg, Denmark

1.2 Information about the product and its intended use

Essential description of the lighting columns

- Cylindrical column height: up to 12 m above the ground
- Column outer diameter: 170 mm (Milewide 171 Profile)
- Column material thickness: 5.3 mm
- Top mounted, single bracket, symmetric two or four brackets
- Top mounted lantern: up to 50 kg and 1.0 m²
- Bracket mounted lantern: up to 15 kg. Single lantern 0.2 m², double lantern 0,4 m² each
- Bracket projection: up to 2.5 m
- Bracket outer diameter: 60.3 or 76.0 mm
- Bracket material thickness: 3.6 or 5.0 mm
- Single service hatch opening - width: 84 mm, height: 450 mm
- Material: Alloy EN AW-6005A T6 for column, alloy EN AW-6063 T6 for bracket arm
- Load class: A/B + 1 case DK (Danish National Annex)
- Wind speed: 20-36 m/s
- Terrain class: I-IV
- Horizontal deflection class: 1, 2 or 3
- Base: flange base (Type 1, 2, 3)

1.3 List of documentation provided by the manufacturer to the assessment and verification of constancy of performance (AVCP)

- Application for performance of activity of notified body – AVCP system 1
- Drawings of the product
- Description of product
- Quality manual
- Checklist of Initial FPC audit
- Documents according to checklist of Initial FPC audit
- Documents specified in 2.2
- „Milewide Lightpole, 10m 171 profile - Structural design verification according to EN 40“ Test Report no. 1057840A issued by Ramboll

1.4 List of the other documentation used during the product AVCP

- none



1.5 Technical specification relating to the AVCP (as amended)

- EN 40-6:2002 (Lighting columns – Part 6: Requirements for aluminium lighting columns)

1.6 Information about previous AVCP

There was no previous AVCP according to the manufacturer's information

2 Product Assessment

2.1 Technical requirements

The following characteristics are assessed according to the EN 40-6:2002:

- Resistance to horizontal loading
- Passive safety
- Durability

2.2 List of the Test Reports:

- Test report AE1004, issued by Suomen Törmäyskoepalvelu (100LE2)
- Test report AE1005, issued by Suomen Törmäyskoepalvelu (35LE2)
- Test report E0914, issued by Laboratory of Highway Engineering, Helsinki University of Technology (35HE2)
- Test report E1108, issued by Laboratory of Highway Engineering, Helsinki University of Technology (100HE2)
- Test report U1008, issued by Transportation and Highway Engineering, Aalto University (100NE2)
- Test report U1113, issued by Transportation and Highway Engineering, Aalto University (35NE2)

2.3 Evaluation of the results of the product tests and assessment

Product characteristic	Test Report	Test method	Test results	Required/declared level	Evaluation
1	2	3	4	5	6
Resistance to horizontal loading	2.2	EN 40-6:2002, clause 6	All types have deflection < 4 %	R: deflection less than 4 % for Class 1	Class 1
Passive safety	2.2	EN 40-6:2002, clause 16	Results for Performance class 100	D: Performance classes according to EN 12767	Flange base Type 1, height 10 m: 100HE3 Flange base Type 2, height 2-11 m: 100NE2 Flange base Type 3, height 12 m: 100LE2 All other columns: class 0
Durability	-	EN 40-6:2002, clause 11	-	R: Thickness of coating in accordance with EN 40-6:2002, Annex A	NPD



3 Factory Production Control Assessment

The FPC assessment was performed in the production plant of DAV NORDIC A/S at address Tietgensvej 12, DK-8600 Silkeborg, Denmark on November 7th, 2019.

3.1 Requirement of the technical specification regarding Factory Production Control:

Requirements are laid down in EN 40-6:2002

3.2 Evaluation of the Factory Production Control assessment results:

- Technical documentation of the manufacturer DAV NORDIC A/S in its plant contains description of the FPC
- The FPC corresponds to the technical documentation and allows to achieve and maintain declared product performances

4 Conclusion

- The FPC is in accordance with the harmonised technical specification and ensures that the declared performances are achieved.
- Findings and conclusions mentioned in this Report are valid providing the conditions under which FPC assessment was carried out remain unchanged (e.g. technical regulations, technical specifications, production technology, incoming raw material and manufacturing equipment).
- In compliance with provision of the CPR Art. 1.2, Annex V, the Surveillance Reports containing FPC assessment and evaluation have to be complementary to the technical documentation.

5 Annexes

All related documents are not part of this Report; these documents are kept by the Head Assessor responsible for this Report

