

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU 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 pole

Scope: Aluminium lighting columns (ZA.1)

The product fulfils the essential characteristic:

See Annex 1

Intended use: Road lighting columns for circulation areas

Placed on the market under the name or trade mark of:

Seri Q Sign A/S
Stærmosegårdsvej 30
Odense M 5230

and produced in the manufacturing plant:

CPA30002

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 40-6:2002 : **Aluminium lighting columns**

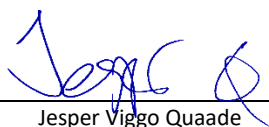
under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: **2020-05-14**

This certificate will remain valid as long as neither the harmonized 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

This certificate was first issued 2020-05-14.



Jesper Viggo Quaade
Responsible for evaluation



Allan Laursen
Responsible for certification decision

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DANAK
Prod. Reg. Nr. 7023

DBI Certification A/S

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Annex 1

Type	Classifications		
Product identification incl. eventual variants (accepted by test lab) Material: Post: Cross-section: 140 mm Wall thickness: 3 mm Aluminium Alloy: $R_{p0,2} \geq 200$ MPa Anodizing 20 μm, nature Bracket: Outer diameter: 50 mm Wall thickness: 10 mm Aluminium Alloy: $R_{p0,2} \geq 200$ MPa Anodizing 20 μm, nature Steel bar: Quality: S355J2G3C $F_y \geq 355$ MPa Coating: Chemlock 8310 Primer Glue: Sikadur-330 (epoxy resin) Tensile strength 30 MPa, E=4500 MPa	140 mm SeriPole Lighting Column with a maximum length of 10 m		
		Double bracket	Single bracket
	Partial load factors	Class A	Class A
	Maximum horizontal deflection	Class 3	Class 2
	Wind velocity $v_{b,0}$	Max 24 m/s	Max 24 m/s
	Terrain categori	II	II
	Bracket length	Max 0.50 m	Max 1.50 m
	Weight of lantern	Max 10 kg	Max 10 kg
	Exposed area of lantern	Max 0.10 m ²	Max 0.10 m ²
	Speed class	100	100
	Energy absorption category	LE	LE
	Occupant safety class	D	D
	Backfill type	S	S
	Collapse mode	SE	SE
	Direction class	SD	SD
	Risk of roof indentation	1	1
	140 mm SeriPole Lighting Column with a maximum length of 9 m		
		Double bracket	Single bracket
	Partial load factors	Class A	Class A
	Maximum horizontal deflection	Class 3	Class 2
	Wind velocity $v_{b,0}$	Max 27 m/s	Max 27 m/s
	Terrain categori	II	II
	Bracket length	Max 1.50 m	Max 1.50 m
	Weight of lantern	Max 10 kg	Max 10 kg
	Exposed area of lantern	Max 0.10 m ²	Max 0.10 m ²
	Speed class	100	100
	Energy absorption category	LE	LE
	Occupant safety class	D	D
	Backfill type	S	S
	Collapse mode	SE	SE
	Direction class	SD	SD
	Risk of roof indentation	1	1
	140 mm SeriPole Lighting Column with a maximum length of 9 m		
		Double bracket	Single bracket
	Partial load factors	Class A	Class A
	Maximum horizontal deflection	Class 2	Class 1
	Wind velocity $v_{b,0}$	Max 24 m/s	Max 24 m/s
	Terrain categori	II	II
	Bracket length	Max 1.50 m	Max 1.50 m
	Weight of lantern	Max 10 kg	Max 10 kg
	Exposed area of lantern	Max 0.10 m ²	Max 0.10 m ²
	Speed class	100	100
	Energy absorption category	LE	LE
	Occupant safety class	D	D
	Backfill type	S	S
	Collapse mode	SE	SE
	Direction class	SD	SD
	Risk of roof indentation	1	1

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140 mm SeriPole Lighting Column with a maximum length of 8 m

	Double bracket	Single bracket
Partial load factors	Class A	Class A
Maximum horizontal deflection	Class 2	Class 1
Wind velocity $v_{b,0}$	Max 27 m/s	Max 27 m/s
Terrain categori	II	II
Bracket length	Max 1.50 m	Max 1.50 m
Weight of lantern	Max 10 kg	Max 10 kg
Exposed area of lantern	Max 0.10 m ²	Max 0.10 m ²
Speed class	100	100
Energy absorption category	LE	LE
Occupant safety class	D	D
Backfill type	S	S
Collapse mode	SE	SE
Direction class	SD	SD
Risk of roof indentation	1	1

140 mm SeriPole Lighting Column with a maximum length of 8 m

	Double bracket	Single bracket
Partial load factors	Class A	Class A
Maximum horizontal deflection	Class 1	Class 1
Wind velocity $v_{b,0}$	Max 24 m/s	Max 24 m/s
Terrain categori	II	II
Bracket length	Max 1.50 m	Max 1.50 m
Weight of lantern	Max 10 kg	Max 10 kg
Exposed area of lantern	Max 0.10 m ²	Max 0.10 m ²
Speed class	100	100
Energy absorption category	LE	LE
Occupant safety class	D	D
Backfill type	S	S
Collapse mode	SE	SE
Direction class	SD	SD
Risk of roof indentation	1	1

General**Durability (According to EN 12899-1:2007):**

Corrosion resistance (supports) Aluminium	SP1 for aluminium, pin bolts , washers and nuts. SP1 for spacer and top lid.
Resistance to penetration of dust and water	Top of lighting column is sealed with a lid.

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Annex 2

TEST DOCUMENTATION

Laboratory	Report no.	Date
Aalto University School of Science and Technology	L0609	2010-08-06
Aalto University School of Science and Technology	L0610	2010-08-06
Aalto University School of Science and Technology	L0611	2010-08-06

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Annex 3

TECHNICAL BASIS

Title	Date
Calculation of 140 mm lighting column Rev. 06	April 2020
Translation of test reports for SeriPole lighting columns	2020-04-28
DBI Evaluering af rapport SeriQSign_Lysmaster_PHA11146A Rev.1	2019-03-26

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