

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 products

## Lighting columns – Part 7: Requirements for fibre reinforced polymer composite lighting columns

Road lighting columns for circulation areas, with specification and performance as specified on page 2-3 in this certificate.

### Product name: Formenta lighting column

placed on the market under the name or trademark of

#### **Formenta AB**

Box 525  
331 25 Värnamo, Sweden

and produced in the manufacturing plant

**Formenta AB**, Bredastensvägen 16, 331 44 Värnamo, Sweden

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

### **EN 40-7:2002**

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 2014-07-01 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Issued by notified body 0402

The validity of this certificate can be verified on our website.

Martin Tillander  
Director Product Certification

Certificate 0402-CPR-SC0024-14 | issue 2 | 2020-09-14

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## Specification

Lighting columns 3-6 m with straight circular base with conical upper part

Column height	3, 4, 5 or 6 m
Column base diameter	108 ± 1 mm
Column top diameter	60 ± 1.2 mm
Material thickness at bottom	5.0 mm
Material	Glass fibre reinforced polyester
Distance into soil	0.5 m

## Performance

Lighting columns 3-6 m with single top mounted lantern

Resistance to horizontal loads

Basic reference wind velocity	3, 4 and 5 m	34 m/s
	6 m	28 m/s
Topography factor	1	
Terrain category	I	
Partial load factor class	A	
Maximum size of lantern	3 m	0.120 m <sup>2</sup> , 12 kg
	4 m	0.120 m <sup>2</sup> , 12 kg
	5 m	0.100 m <sup>2</sup> , 6-7 kg
		0.095 m <sup>2</sup> , 8-10 kg
		0.090 m <sup>2</sup> , 12 kg
	6 m	0.110 m <sup>2</sup> , 6 kg
0.105 m <sup>2</sup> , 7-8 kg		
0.100 m <sup>2</sup> , 9-10 kg		
0.095 m <sup>2</sup> , 12 kg		
Horizontal deflection class	3 m	Class 2
	4, 5 and 6 m	Class 3

Performance under vehicle impact (passive safety)

Performance under vehicle impact (passive safety)	Class 0
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Durability

Pigmentation	Inked polyester
Surface finish	Gelcoat
Cut edges	Pigmented top coating

## Specification

Lighting columns 6-10 m with straight circular base with conical upper part

Column height	6, 7, 8, 9 or 10 m
Column base diameter	127 or 179 mm
Column top diameter	60 mm
Material thickness at bottom	4.5, 5.0, 6.0, 6.5, 7.0, 8.0 or 9.5 mm
Material	Glass fibre reinforced polyester
Distance into soil	0.5 or 0.8 m

## Performance

Lighting columns 6-10 m with single top mounted lantern

Resistance to horizontal loads

Basic reference wind velocity	6 -10 m	24 m/s
Topography factor	1	
Terrain category	I	
Partial load factor class	A	
Maximum size of lantern	6 m	0.20 m <sup>2</sup> , 10 kg 0.35 m <sup>2</sup> , 10 kg 0.41 m <sup>2</sup> , 21 kg
	7 m	0.14 m <sup>2</sup> , 10 kg 0.28 m <sup>2</sup> , 10 kg 0.40 m <sup>2</sup> , 21 kg
	8 m	0.08 m <sup>2</sup> , 10 kg 0.13 m <sup>2</sup> , 10 kg 0.54 m <sup>2</sup> , 21 kg
	9 m	0.45 m <sup>2</sup> , 21 kg
	10 m	0.47 m <sup>2</sup> , 21 kg
	Horizontal deflection class	6 and 7 m
	8, 9 and 10 m	Class 3

Performance under vehicle impact (passive safety)

Performance under vehicle impact (passive safety)	Class 0
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Durability

Pigmentation	Inked polyester
Surface finish	Gelcoat
Cut edges	Pigmented top coating