

# DECLARATION OF PERFORMANCE

## **Optimast 219**

PASSIVE SAFE MAST

NO. 001-219-2015.01.22



SignPost SOLUTIONS LTD

Unit 5, Clarendon Drive, The Parkway

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SOLUTIONS LTD



FM13394

EMS54108

# Declaration of Performance

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OPTIMAST 219 passive safe mast Revision B

## Product name

Optimast 219

## Product specifications

The mast is delivered complete with cap and base plate

Tested and approved EN 12767:2007 100, NE, 3

Report and Test no.: 1033700-001 Rev2 L0057

1033700-002 Rev2 L0058

Product no.: OPTI219X4000 Optimast 219°D X 4000 C/W fitted cap & base plate  
 (Stock lengths) OPTI219X5000 Optimast 219°D X 5000 C/W fitted cap & baseplate  
 OPTI219X6000 Optimast 219°D X 6000 C/W fitted cap & baseplate

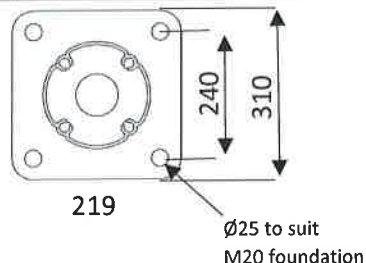
## Material / Surface treatment

Mast: Aluminium 6063 T66, class SP2  
 Base plate: Steel S355J2+N, galvanized to ISO 1461  
 Bolts: BUMAX 109 (A4 – 316 stainless steel)

## Data / Weight

Mast, Diameter [mm]	Mast, Length max [mm]	Mast, Length min, ground to bottom of sign* [mm]	Min C-C with 1,5m opening at 20° angle [mm]	Bolts base plate/ mast	Mast Weight [kg / m]	Base Plate Thickness [mm]	Base Plate Dimension [mm]	Base Plate Weight [kg]	Bolt patterns for foundation [mm]	Bolts base plate/ foundation
219	6000	1800	1829	M14	8.2	25	310 x 310	17,5	240x240	M20

\*) For an Optimast to be passive safe in accordance to EN 12767 the length from ground level to the bottom of the sign should be minimum 1800mm. The overall length depends on the sign chosen.



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## Capacity

Bending Capacity** $M_{bmax} (M_u)$	Torsion Capacity** $M_{tmax} (T_u)$	Bending Stiffness EI	Torsion Stiffness GI
31,50 kNm	10,10 kNm	879 kNm <sup>2</sup>	198 kNm <sup>2</sup>

\*\*\*) The moments do not take into account the partial material factor ( $\gamma_m$ ). EN 12899-1 gives a  $\gamma_m$  for aluminium of 1,15

## Maintenance

No maintenance required.

## CE marking and system of assessment and verification of constancy of performance

CE marked according to EN 12899-1:2007

Notified body no. 0086

See attached certificate


System of assessment and verification of constancy of performance:  
System 1

CE marking is approved and valid for minimum 1800mm from ground to bottom of sign to full length of 6000mm;  
see Section Data/Weight

The CE label gives all important information on data and capacity. Within the manufacturing process masts and base plates are marked for traceability.

## Referrals

EC Certificate of conformity No. 0086-CPR-572169

 <b>0086</b>
<b>SignPost Solutions</b> Unit 5, Clarendon Drive The Parkway, Tipton, DY4 0QA United Kingdom <a href="http://www.signfix.co.uk">www.signfix.co.uk</a>  13  001 - 219 - 2015.01.22
<b>Optimast 219</b> EN 12899-1:2007 $M_b$ 31,5 kNm ( $M_u$ ) EI 879 kNm <sup>2</sup> $M_t$ 10,1 kNm ( $T_u$ ) GI 198 kNm <sup>2</sup> EN12767:2007 100, NE, 3
<i>Declaration of Performance, DoP:</i> <a href="http://www.signfix.co.uk/optimast-dop">www.signfix.co.uk/optimast-dop</a>

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Approved by the manufacturer

For Optimast Installation Method please use link below:

<http://www.signfix.co.uk/wp-content/uploads/2014/08/Optimast-Installation-Method-Statement-Issued-August-2017.pdf>



Chris Nicklin  
Managing Director

03.11.2017  
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## Revision History

Revision	Reason for Revision	Date
A	Removed installation page & added link to Installation method.	22/09/17
B	Certificate of conformity no. changed	16/10/17

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