



Ydeevnedeklaration

NR. SQS 00068-D

1. Byggevaretype:	Aluminium master
2. Byggevareidentifikation:	SeriPole 2
3. Byggevarens tilsigtede anvendelse(r):	Eftergivelige master til færdselstavler
4. Fabrikantens navn og adresse:	Seri Q Sign A/S Stærmosegårdvej 30 DK-5230 Odense M
5. Navn og adresse på den bemyndigede repræsentant:	Ikke relevant
6. Systemerne for vurdering og kontrol af konstansen af byggevarens ydeevne (AVCP):	System 1
7. Harmoniseret standard & Notificeret Organ: Har udført Efter system Og udstedt	EN 12899-1:2007 DBI Certification A/S nr. 2531 Indledende inspektion af fabriksanlæg og fabrikkens egen produktionskontrol samt kontinuerlig overvågning, vurdering og evaluering af fabrikkens egen produktionskontrol. 1 Overensstemmelsesattest for fabrikkens egen produktionskontrol (nr. 2531-CPR-CSC-10006)
8. Deklareret ydeevne: Se følgende sider.	



Ydeevnedeklaration

NR. SQS 00068-D

Annex 1

EXTENT

Type	Description																																																																																																																																																																																																	
Dimensions: 66 mm SeriPole 2 110 mm SeriPole 2 140 mm SeriPole 2 166 mm SeriPole 2 110 mm SeriPole 2 with steel rods 140 mm SeriPole 2 with steel rods 166 mm SeriPole 2 with steel rods Material: Aluminium: AA6063 T66, Anodizing 20 µm Nature Steel rods: S355J2G3C, coated with Chemlock 8310 Primer	Resistance to horizontal loads: <table><tr><th></th><th colspan="2">Bending</th><th colspan="2">Torsion</th></tr><tr><td>SeriPole 2 without steel rods</td><td>Stiffness (EI)</td><td>Moment capacity bending (M_u)</td><td>Stiffness (G_I)</td><td>Moment capacity torsion (T_u)</td></tr><tr><td>mm</td><td>kNm²</td><td>kNm</td><td>kNm²</td><td>kNm</td></tr><tr><td>66</td><td>23,8</td><td>2,1</td><td>17,4</td><td>2,1</td></tr><tr><td>110</td><td>154</td><td>8,0</td><td>90,7</td><td>5,0</td></tr><tr><td>140</td><td>294</td><td>12,0</td><td>180</td><td>7,5</td></tr><tr><td>166</td><td>495</td><td>17,0</td><td>308</td><td>11,7</td></tr></table> <table><tr><th></th><th colspan="2">Bending</th><th colspan="2">Torsion</th></tr><tr><td>SeriPole 2 part with steel rods</td><td>Stiffness (EI)</td><td>Moment capacity bending (M_u)</td><td>Stiffness (G_I)</td><td>Moment capacity torsion (T_u)</td></tr><tr><td>mm</td><td>kNm²</td><td>kNm</td><td>kNm²</td><td>kNm</td></tr><tr><td>110</td><td>355</td><td>13,2</td><td>92,2</td><td>4,5</td></tr><tr><td>140</td><td>613</td><td>17,6</td><td>182</td><td>7,2</td></tr><tr><td>166</td><td>965</td><td>23,9</td><td>312</td><td>10,7</td></tr></table> <table><tr><th></th><th colspan="3">Bending</th><th colspan="2">Torsion</th></tr><tr><td>SeriPole 2 combined part with and without steel rods</td><td>Stiffness (EI^{***})</td><td>Moment capacity bending up to L* (see note 1) (M_u)</td><td>Moment capacity bending Above L* (see note 1) (M_u)</td><td>Stiffness (G_I)</td><td>Moment capacity torsion (T_u)</td></tr><tr><td>mm</td><td>kNm²</td><td>kNm</td><td>kNm</td><td>kNm²</td><td>kNm</td></tr><tr><td>110</td><td>See note 1</td><td>13,2</td><td>8,0</td><td>90,7</td><td>4,5</td></tr><tr><td>140</td><td>See note 1</td><td>17,6</td><td>12,0</td><td>180</td><td>7,2</td></tr><tr><td>166</td><td>See note 1</td><td>23,9</td><td>17,0</td><td>308</td><td>10,7</td></tr></table> Note 1: The stiffness EI^{***} is calculated as $\frac{L^* \times EI^* + L^{**} \times EI^{**}}{L^* + L^{**}}$, where: L* = (Total length of SeriPole 2 part with steel rods, above ground – L^{**}) <table><tr><td>SeriPole 2</td><td>Part without steel rods, stiffness (EI*)</td><td>Part with steel rods, stiffness (EI^{**})</td><td>L^{**}</td></tr><tr><td>mm</td><td>kNm²</td><td>kNm²</td><td>m</td></tr><tr><td>110</td><td>154</td><td>355</td><td>2,2</td></tr><tr><td>140</td><td>294</td><td>613</td><td>2,1</td></tr><tr><td>166</td><td>495</td><td>965</td><td>2,0</td></tr></table> Performance under vehicle impact: Passive safety for supports with maximum height 6.2 m above ground level and maximum area of sign to be mounted 10,0 m ² on one support: <table><tr><td>SeriPole 2 without steel rods</td><td>66 mm</td><td>110 mm</td><td>140 mm</td><td>166 mm</td></tr><tr><td>Speed class</td><td>100</td><td>100</td><td>100</td><td>100</td></tr><tr><td>Energy absorbing category</td><td>NE</td><td>NE</td><td>NE</td><td>NE</td></tr><tr><td>Occupant safety class</td><td>C</td><td>C</td><td>C</td><td>C</td></tr><tr><td>Backfill type</td><td>S</td><td>S</td><td>S</td><td>S</td></tr><tr><td>Collapse mode</td><td>SE</td><td>SE</td><td>SE</td><td>SE</td></tr><tr><td>Direction class</td><td>SD</td><td>SD</td><td>SD</td><td>SD</td></tr><tr><td>Risk of roof indentation</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table> <table><tr><td>SeriPole 2 combined with and without steel rods</td><td>110 mm</td><td>140 mm</td><td>166 mm</td></tr><tr><td>Speed class</td><td>100</td><td>100</td><td>100</td></tr><tr><td>Energy absorbing category</td><td>NE</td><td>NE</td><td>NE</td></tr><tr><td>Occupant safety class</td><td>C</td><td>C</td><td>C</td></tr><tr><td>Backfill type</td><td>S</td><td>S</td><td>S</td></tr><tr><td>Collapse mode</td><td>SE</td><td>SE</td><td>SE</td></tr><tr><td>Direction class</td><td>SD</td><td>SD</td><td>SD</td></tr><tr><td>Risk of roof indentation</td><td>0</td><td>0</td><td>0</td></tr></table> Lower edge of sign plate shall be at least 2.0 m above ground unless otherwise evaluated		Bending		Torsion		SeriPole 2 without steel rods	Stiffness (EI)	Moment capacity bending (M _u)	Stiffness (G _I)	Moment capacity torsion (T _u)	mm	kNm ²	kNm	kNm ²	kNm	66	23,8	2,1	17,4	2,1	110	154	8,0	90,7	5,0	140	294	12,0	180	7,5	166	495	17,0	308	11,7		Bending		Torsion		SeriPole 2 part with steel rods	Stiffness (EI)	Moment capacity bending (M _u)	Stiffness (G _I)	Moment capacity torsion (T _u)	mm	kNm ²	kNm	kNm ²	kNm	110	355	13,2	92,2	4,5	140	613	17,6	182	7,2	166	965	23,9	312	10,7		Bending			Torsion		SeriPole 2 combined part with and without steel rods	Stiffness (EI ^{***})	Moment capacity bending up to L* (see note 1) (M _u)	Moment capacity bending Above L* (see note 1) (M _u)	Stiffness (G _I)	Moment capacity torsion (T _u)	mm	kNm ²	kNm	kNm	kNm ²	kNm	110	See note 1	13,2	8,0	90,7	4,5	140	See note 1	17,6	12,0	180	7,2	166	See note 1	23,9	17,0	308	10,7	SeriPole 2	Part without steel rods, stiffness (EI*)	Part with steel rods, stiffness (EI ^{**})	L ^{**}	mm	kNm ²	kNm ²	m	110	154	355	2,2	140	294	613	2,1	166	495	965	2,0	SeriPole 2 without steel rods	66 mm	110 mm	140 mm	166 mm	Speed class	100	100	100	100	Energy absorbing category	NE	NE	NE	NE	Occupant safety class	C	C	C	C	Backfill type	S	S	S	S	Collapse mode	SE	SE	SE	SE	Direction class	SD	SD	SD	SD	Risk of roof indentation	0	0	0	0	SeriPole 2 combined with and without steel rods	110 mm	140 mm	166 mm	Speed class	100	100	100	Energy absorbing category	NE	NE	NE	Occupant safety class	C	C	C	Backfill type	S	S	S	Collapse mode	SE	SE	SE	Direction class	SD	SD	SD	Risk of roof indentation	0	0	0
	Bending		Torsion																																																																																																																																																																																															
SeriPole 2 without steel rods	Stiffness (EI)	Moment capacity bending (M _u)	Stiffness (G _I)	Moment capacity torsion (T _u)																																																																																																																																																																																														
mm	kNm ²	kNm	kNm ²	kNm																																																																																																																																																																																														
66	23,8	2,1	17,4	2,1																																																																																																																																																																																														
110	154	8,0	90,7	5,0																																																																																																																																																																																														
140	294	12,0	180	7,5																																																																																																																																																																																														
166	495	17,0	308	11,7																																																																																																																																																																																														
	Bending		Torsion																																																																																																																																																																																															
SeriPole 2 part with steel rods	Stiffness (EI)	Moment capacity bending (M _u)	Stiffness (G _I)	Moment capacity torsion (T _u)																																																																																																																																																																																														
mm	kNm ²	kNm	kNm ²	kNm																																																																																																																																																																																														
110	355	13,2	92,2	4,5																																																																																																																																																																																														
140	613	17,6	182	7,2																																																																																																																																																																																														
166	965	23,9	312	10,7																																																																																																																																																																																														
	Bending			Torsion																																																																																																																																																																																														
SeriPole 2 combined part with and without steel rods	Stiffness (EI ^{***})	Moment capacity bending up to L* (see note 1) (M _u)	Moment capacity bending Above L* (see note 1) (M _u)	Stiffness (G _I)	Moment capacity torsion (T _u)																																																																																																																																																																																													
mm	kNm ²	kNm	kNm	kNm ²	kNm																																																																																																																																																																																													
110	See note 1	13,2	8,0	90,7	4,5																																																																																																																																																																																													
140	See note 1	17,6	12,0	180	7,2																																																																																																																																																																																													
166	See note 1	23,9	17,0	308	10,7																																																																																																																																																																																													
SeriPole 2	Part without steel rods, stiffness (EI*)	Part with steel rods, stiffness (EI ^{**})	L ^{**}																																																																																																																																																																																															
mm	kNm ²	kNm ²	m																																																																																																																																																																																															
110	154	355	2,2																																																																																																																																																																																															
140	294	613	2,1																																																																																																																																																																																															
166	495	965	2,0																																																																																																																																																																																															
SeriPole 2 without steel rods	66 mm	110 mm	140 mm	166 mm																																																																																																																																																																																														
Speed class	100	100	100	100																																																																																																																																																																																														
Energy absorbing category	NE	NE	NE	NE																																																																																																																																																																																														
Occupant safety class	C	C	C	C																																																																																																																																																																																														
Backfill type	S	S	S	S																																																																																																																																																																																														
Collapse mode	SE	SE	SE	SE																																																																																																																																																																																														
Direction class	SD	SD	SD	SD																																																																																																																																																																																														
Risk of roof indentation	0	0	0	0																																																																																																																																																																																														
SeriPole 2 combined with and without steel rods	110 mm	140 mm	166 mm																																																																																																																																																																																															
Speed class	100	100	100																																																																																																																																																																																															
Energy absorbing category	NE	NE	NE																																																																																																																																																																																															
Occupant safety class	C	C	C																																																																																																																																																																																															
Backfill type	S	S	S																																																																																																																																																																																															
Collapse mode	SE	SE	SE																																																																																																																																																																																															
Direction class	SD	SD	SD																																																																																																																																																																																															
Risk of roof indentation	0	0	0																																																																																																																																																																																															

Ydeevnedeklaration

NR. SQS 00068-D

	Passive safety with maximum height more than 6.2 m above ground level and no sign mounted:				
	SeriPole 2 without steel rods	66 mm	110 mm	140 mm	166 mm
	Speed class	100	100	100	100
	Energy absorbing category	NE	NE	NE	NE
	Occupant safety class	C	C	C	C
	Backfill type	S	S	S	S
	Collapse mode	SE	SE	SE	SE
	Direction class	SD	SD	SD	SD
	Risk of roof indentation	0	0	0	0
	SeriPole 2 combined with and without steel rods	110 mm	140 mm	166 mm	
	Speed class	100	100	100	
	Energy absorbing category	NE	NE	NE	
	Occupant safety class	C	C	C	
	Backfill type	S	S	S	
	Collapse mode	SE	SE	SE	
	Direction class	SD	SD	SD	
	Risk of roof indentation	0	0	0	
	Durability:				
	Corrosion resistance (supports) Metal, Aluminium		SP1		
	Resistance to penetration of dust and water		Supports can not be provided with compartments for electrical equipment		

9. Ydeevnen for den byggevare, der er anført i punkt 1 og 2, er i overensstemmelse med den deklarerede ydeevne i punkt 9.

Denne ydeevnedeklaration udstedes på eneansvar af den fabrikant, der er anført i punkt 4.
Underskrevet for og på vegne af fabrikanten af:



Odense 2020-03-27

Paul Pedersen, Produktionschef