

YDEEVNEDEKLARATION

Nr.: SR 00027

1. Byggevaretype:	Faste lodrette trafikskilte
2. Byggevarereidentifikation:	Lave Galger for skilte
3. Byggevaarens tilsigtede anvendelse:	Lave Galger til montage af lodrette trafikskilte.
4. Producentens Navn og adresse:	Saferoad Danmark A/S Hvidkærvej 33 5250 Odense SV
5. Systemerne til vurdering og kontrol af konstanten af byggevaarens ydeevne:	1
6. Produktstandard:	EN 12899-1:2007
7. Notificeret Organ:	DBI Certification A/S, Jernholmen 12, DK-2650 Hvidovre nr.: 2531 har udført bestemmelse af varetype, type beregning, indledende og løbende overvågning af fabrikens egen produktions kontrol (FPC) og udstedt EC Certifikat
8. EC Certifikat of Conformity:	2531-CPR-CSC10027

9. Deklareret ydeevne:

Description and classification:

Sign, sizes and mounting system Pipes: Minimum steel quality: S235 in dimension $\varnothing 33,7 \times 3,2$, $\varnothing 48,3 \times 2,9$, $\varnothing 48,3 \times 3,0$ and $\varnothing 48,3 \times 3,2$ mm Signboard: Minimum aluminium quality: $R_{p0,2} = 180$ MPa, min. 2 mm thickness		Classification according to wind load classes																																																																																																																																		
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		$h1 \leq 330$ mm, $b \leq 1750$ mm and $L \leq 500 + h2 + 30$ mm																																																																																																																																		
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Sign, sizes and mounting system Pipes: Minimum steel quality: S235 in dimension Ø33,7 x 3,2, Ø48,3 x 2,9, Ø48,3 x 3,0 and Ø48,3 x 3,2 mm Signboard: Minimum aluminium quality: R _{p0,2} = 180 MPa, min. 2 mm thickness	Classification according to wind load classes		
	Placed in WL1	Placed in WL2	Placed in WL3
<p style="text-align: center;">Type LG 2</p>	$d \leq 700$ mm and $L \leq h_1 + h_2 + 60 + 500$ m		
	PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1.
	$d \leq 700$ mm, $h_1 \leq 300$ mm and $L \leq h_2 + 30 + 500$ m		
	PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1.
$d \leq 700$ mm, $h_1 \leq 300$ mm, $h_2 \leq 300$ mm and $L \leq 500$ m			
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	Placed in WL1	Placed in WL2	Placed in WL3
<p> h1 + 20 h2 + 20 h3 + 20 L 110 b + 20 110 Type LG 3 Fixed Fixed Ø48,3 x X,X Brace 30 x 10 mm steel bar </p>	$h1 \leq 700 \text{ mm}$, $b \leq 700 \text{ mm}$ and $L \leq h2 + h3 + 60 + 500 \text{ m}$		
	PAF1, WL1, DSL0, PLO, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PLO, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PLO, TDB4, P2, E1 and SP1.
	$h1 \leq 700 \text{ mm}$, $h2 \leq 300 \text{ mm}$, $b \leq 700 \text{ mm}$ and $L \leq h3 + 30 + 500 \text{ m}$		
	PAF1, WL1, DSL0, PLO, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PLO, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PLO, TDB4, P2, E1 and SP1.
	$h1 \leq 700 \text{ mm}$, $h2 \leq 300 \text{ mm}$, $h3 \leq 300 \text{ mm}$, $b \leq 700 \text{ mm}$ and $L \leq 500 \text{ m}$		
PAF1, WL1, DSL0, PLO, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PLO, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PLO, TDB4, P2, E1 and SP1.	

Resistance to horizontal loads		NPD
Resistance to bending		NPD
Resistance to torsion		NPD
Fixings:		Pass. M6 Screws, nuts and washers M6: $f_y \geq 320 \text{ MPa}$ Pressure force for tightening: 2 kN
Temporary deflection (supports) -bending -torsion		NPD

Permanent deflection		NDP
Performance under vehicle impact		NPD
Visibility		Value/description/class/reference
Retroreflective signs: Daylight chromaticity & luminance factor	3M Advanced Engineering Grade Prismatic 7930 3M High Intensity Prismatic 3930 3M Engineering Grade Prismatic 3430 3M Diamond Grade DG 3M Flexible Engineer Grade Prismatic 7600	ETA 16/0006 ETA 17/0465 ETA 18/0290 ETA 17/0491 ETA 12/0550 ETA 10/0118 ETA 18/0405 ETA 17/0490 ETA 19/0839
Non retroreflective signs: Daylight chromaticity & luminance factor		NPD
Retroreflective signs: Coefficient of retroreflection R_A	3M Advanced Engineering Grade Prismatic 7930 3M High Intensity Prismatic 3930 3M Engineering Grade Prismatic 3430 3M Diamond Grade DG 3M Flexible Engineer Grade Prismatic 7600	ETA 16/0006 ETA 17/0465 ETA 18/0290 ETA 17/0491 ETA 12/0550 ETA 10/0118 ETA 18/0405 ETA 17/0490 ETA 19/0839
External illumination		Value/description/class
Mean illuminance,		NPD
Uniformity of illuminance		NPD
Durability		Value/description/class
Impact resistance Sign face material	3M Advanced Engineering Grade Prismatic 7930 3M High Intensity Prismatic 3930	Pass ETA 16/0006 ETA 17/0465 Pass ETA 18/0290

	3M Engineering Grade Prismatic 3430 3M Diamond Grade DG 3M Flexible Engineer Grade Prismatic 7600	ETA 17/0491 Pass ETA 12/0550 ETA 10/0118 Pass ETA 18/0405 ETA 17/0490 Pass, ETA 19/0839
Resistance to weathering – sign face material: Retroreflective signs	3M Advanced Engineering Grade Prismatic 7930 3M High Intensity Prismatic 3930 3M Engineering Grade Prismatic 3430 3M Diamond Grade DG 3M Flexible Engineer Grade Prismatic 7600	ETA 16/0006 ETA 17/0465 ETA 18/0290 ETA 17/0491 ETA 12/0550 ETA 10/0118 ETA 18/0405 ETA 17/0490 ETA 19/0839
Resistance to weathering – sign face material: Non retroreflective signs		NPD
Corrosion resistance		Value/description/class/reference
Steel pipes and fins		Minimum S235 SP1 The pipe and fins are after manufacturing hot dip galvanized to a minimum of 60µm
Screws, nuts and washers		M6: $f_y \geq 320$ MPa Stainless steel SP2 or anodized aluminum SP1
Aluminum plate		Minimum $R_{p0,2} \geq 180$ MPa SP1 Lacquered Al-plate on exposed side if any
Resistance to penetration of dust and water		NPD The product can not be provided with compartments for electrical equipment

Technical Basis

Title	Date
Saferoad Danmark A/S Calculation of minor traffic signs (ITC) Shapes and sizes for signs mounted in gallows type LG, Revision 02	March 2018
3M Advanced Engineering Grade Prismatic 7930 ETA 16/0006 ETA 17/0465	2016-03-03 2017-07-26
3M High Intensity Prismatic 3930 ETA 18/0290 ETA 17/0491	2018-06-21 2017-07-26
3M Engineering Grade Prismatic 3430 ETA 12/0550 ETA 10/0118	2016-02-10 2018-06-06
3M Diamond Grade DG ETA 18/0405 ETA 17/0490	2018-06-21 2017-07-26
3M Flexible Engineer Grade Prismatic 7600 ETA 19/0839	2020-04-17

10. Underskrevet for fabrikanten og på dennes vegne af:

Ydeevnen for den vare, der er anført i punkt 1 og 2, er i overensstemmelse med den deklarerede ydeevne anført i punkt 9. Denne ydeevnedeklaration er udarbejdet i overensstemmelse med forordning (EU) nr. 305/2011 på eneansvar af den producent, der er anført i punkt 4.

Ydeevnen er underskrevet for og på vegne af producenten af:

Odense den. 10-01-2023



Jesper Arbirk Larsen

Quality and sustainability consultant