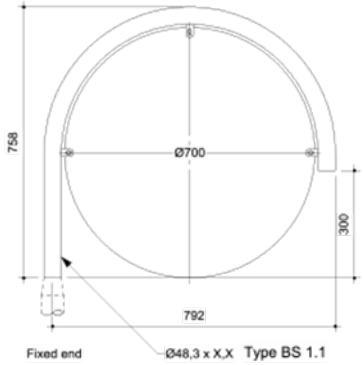
SAFEROAD

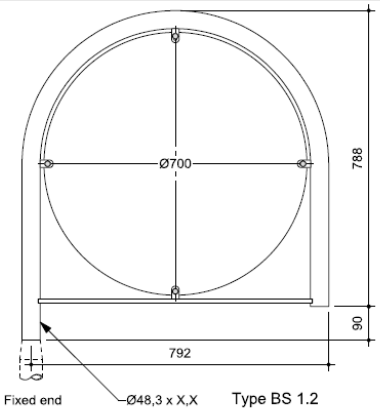
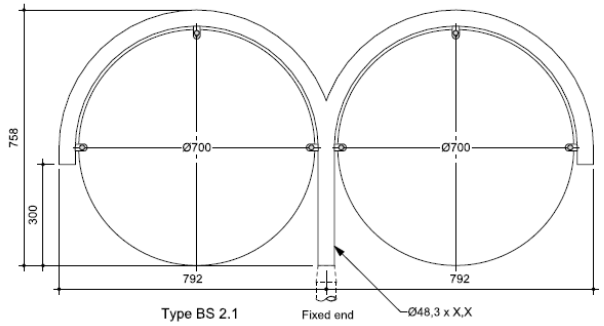
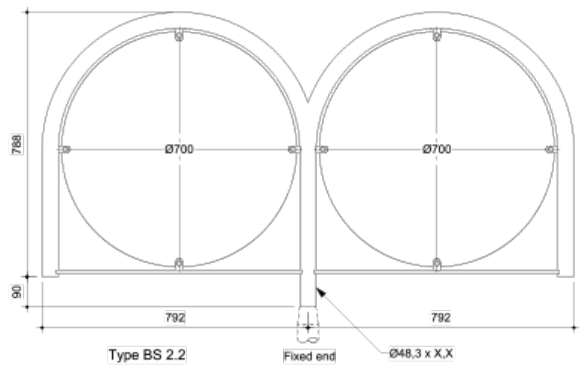
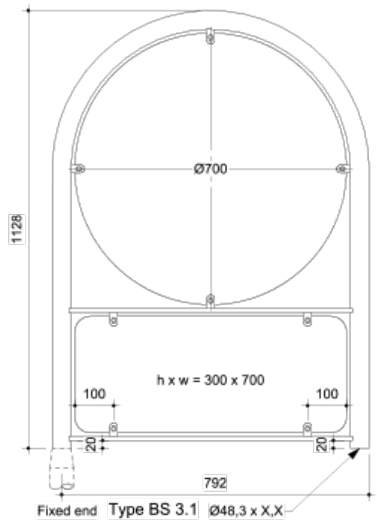
YDEEVNEDEKLARATION

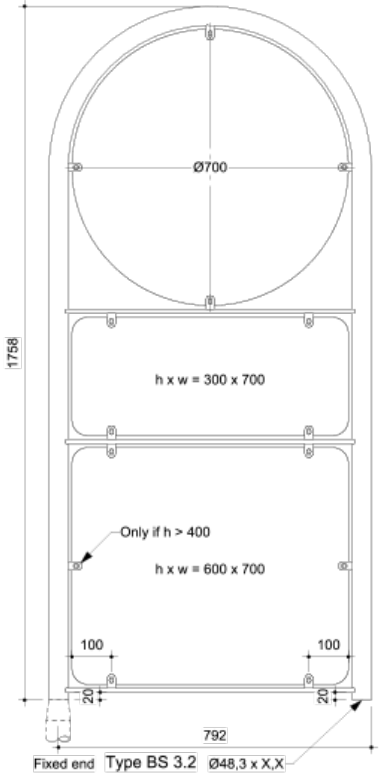
Nr.: SR 00016

1. Byggevaretype:	**Faste lodrette trafikskilte.**
2. Byggevareidentifikation:	**Rørgalger til montage af færdselstavler.**
3. Byggevarens tilsigtede anvendelse:	
4. Producentens Navn og adresse:	**Saferoad Daluiso A/S** **Hvidkærvej 33** **5250 Odense SV**
5. Systemerne til vurdering og kontrol af konstansen af byggevarens 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 fabrikkens egen produktions kontrol (FPC) og udstedt EC Certifikat**
8. EC Certifikat of Conformity:	**2531-CPR-CSC10016**

9. Deklareret ydeevne:

Sizes of signboards and different types of gallows Pipes: Minimum steel quality: S235 in dimension Ø48,3 x 2,9, Ø48,3 x 3,0 and Ø48,3 x 3,2 mm Signboard: Minimum aluminum 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
	**Signboard:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL1, DSL0, PL0, TDB1, TDT4 and SP1.	**Signboard:** PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL2, DSL0, PL0, TDB1, TDT4 and SP1.	**Signboard:** PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL3, DSL0, PL0, TDB1, TDT5 and SP1.

	-	**Signboard:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL2, DSL0, PL0, TDB1, TDT4 and SP1.	**Signboard:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL3, DSL0, PL0, TDB2, TDT4 and SP1.
	**Signboard:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL1, DSL0, PL0, TDB1, TDT4 and SP1.	**Signboard:** PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL2, DSL0, PL0, TDB1, TDT4, and SP1.	**Signboard:** PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL3, DSL0, PL0, TDB2, TDT4 and SP1.
	-	**Signboard:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL2, DSL0, PL0, TDB1, TDT3 and SP1.	**Signboard:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL3, DSL0, PL0, TDB2, TDT4 and SP1.
	**Circular signboard:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **300 x 700 mm signboard:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL1, DSL0, PL0, TDB1, TDT4 and SP1.	**Circular signboard:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **300 x 700 mm signboard:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL2, DSL0, PL0, TDB2, TDT4 and SP1.	**Circular signboard:** PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **300 x 700 mm signboard:** PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1. **Gallows:** PAF1, WL3, DSL0, PL0, TDB2, TDT5 and SP1.



Circular signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.

300 x 700 mm signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.

600 x 700 mm signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.

Gallows: PAF1, WL1, DSL0, PL0, TDB3, TDT5 and SP1.

Signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.

300 x 700 mm signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.

600 x 700 mm signboard: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.

Gallows: PAF1, WL2, DSL0, PL0, TDB3, TDT6 and SP1

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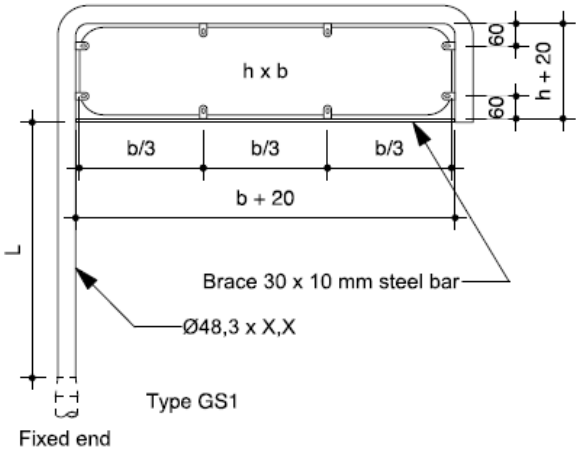
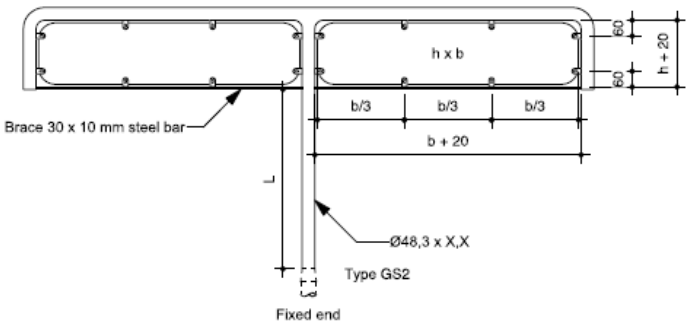
Sign, sizes and mounting system

Pipes: Minimum steel quality: S235 in dimension Ø48,3 x 2,9, Ø48,3 x 3,0, Ø48,3 x 3,2, Ø60,3 x 3,6 and Ø60,3 x 4,5 mm
Signboard: Minimum aluminium quality: $R_{p0,2}$ = 180 MPa, min. 2 mm thickness



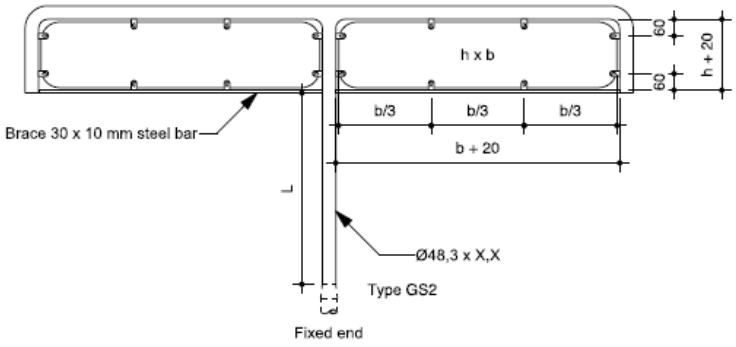
Upper part, single sign

Classification according to wind load classes		
Placed in WL1	Placed in WL2	Placed in WL3
h ≤ 235 mm and b ≤ 1500 mm L ≤ 1200 mm		
PAF1, WL1, DSL0, PL0, TDB2, TDT4, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.
h ≤ 235 mm and b ≤ 1750 mm L ≤ 1200 mm		
PAF1, WL1, DSL0, PL0, TDB2, TDT5, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.
h ≤ 235 mm and b ≤ 2000 mm L ≤ 1200 mm		
PAF1, WL1, DSL0, PL0, TDB3, TDT6, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB4, TDT6, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.



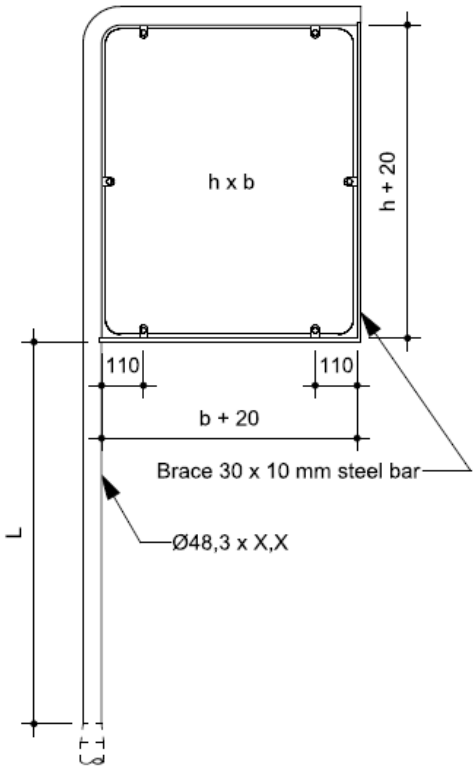
Upper part, double sign

h ≤ 235 mm and b ≤ 1500 mm L ≤ 800 mm		
PAF1, WL1, DSL0, PL0, TDB2, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB2, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1
h ≤ 235 mm and b ≤ 1750 mm L ≤ 800 mm		
PAF1, WL1, DSL0, PL0, TDB2, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1



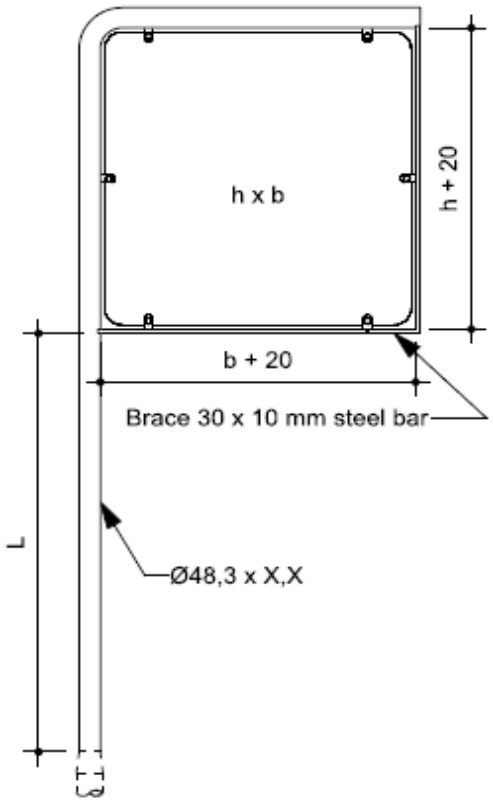
Upper part, double sign

h ≤ 235 mm and b ≤ 2000 mm L ≤ 800 mm		
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



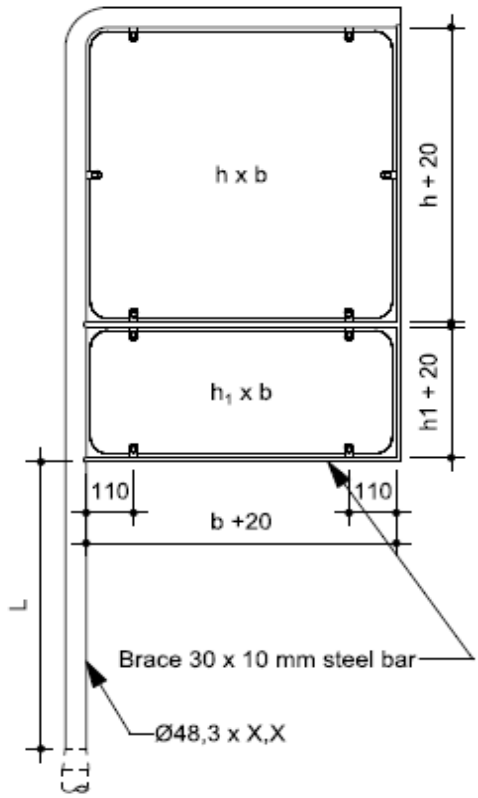
Upper part

h ≤ 800 mm and b ≤ 650 mm L ≤ 1000 mm		
PAF1, WL1, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB4, TDT3, P2, E1 and SP1.



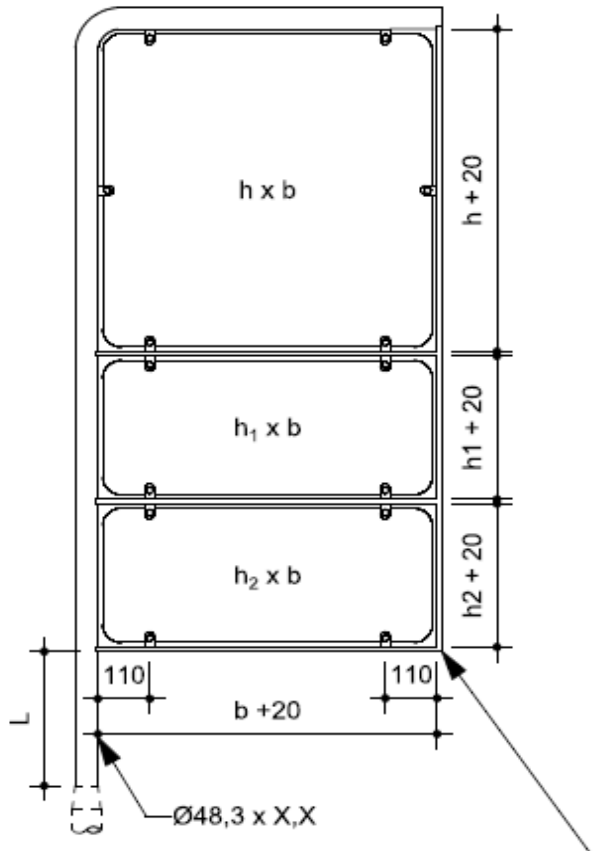
Upper part

h ≤ 700 mm and b ≤ 700 mm L ≤ 1000 mm		
PAF1, WL1, DSL0, PL0, TDB3, TDT1, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB4, TDT3, P2, E1 and SP1.



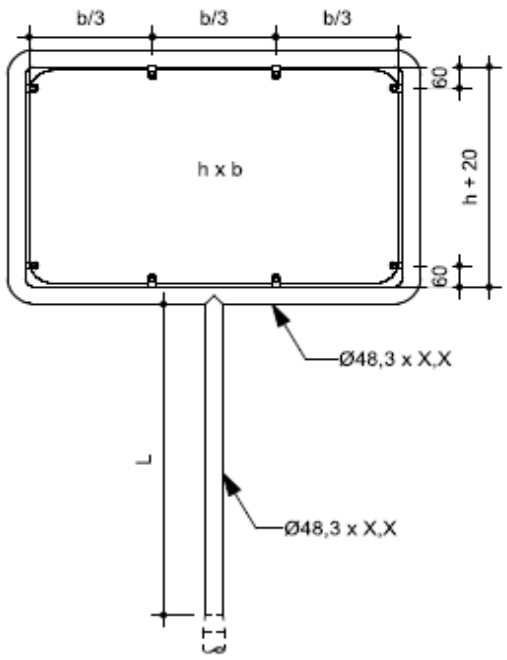
Upper part

h ≤ 700 mm, h1 ≤ 300 mm and b ≤ 700 mm L ≤ 700 mm		
PAF1, WL1, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB4, TDT3, P2, E1 and SP1.



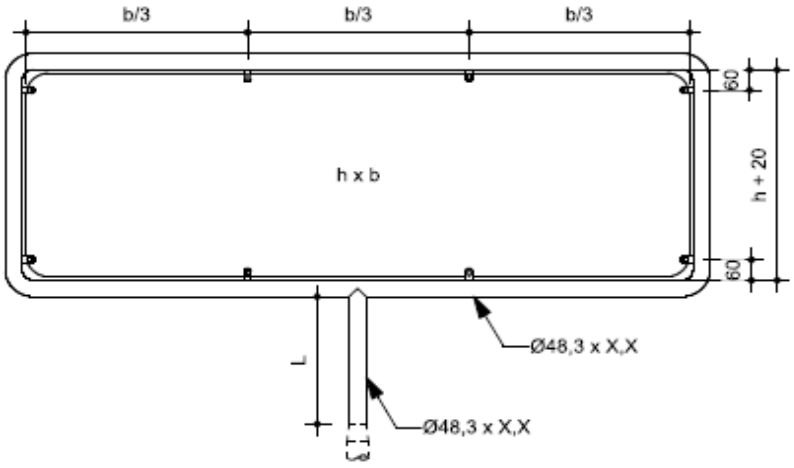
Upper part

h ≤ 700 mm, h1 ≤ 300 mm h2 ≤ 300 mm and b ≤ 700 mm L ≤ 300 mm		
PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.



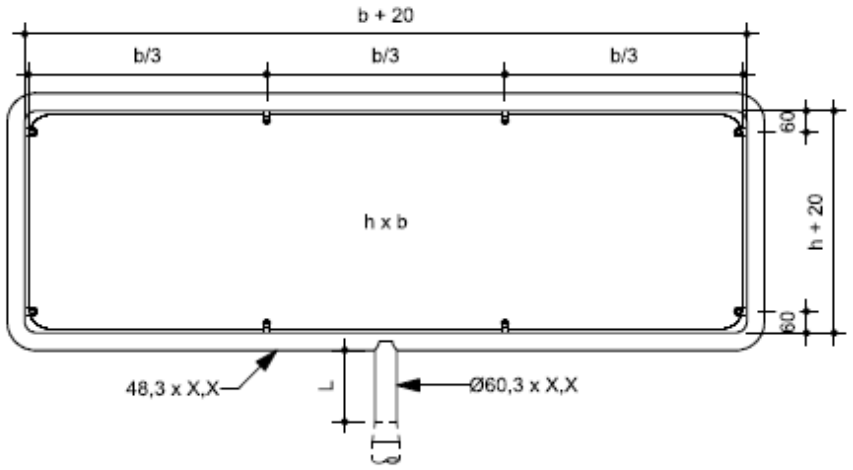
Upper part

h ≤ 600 mm, b ≤ 1000 mm and L ≤ 875 mm		
PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.



Upper part

h ≤ 600 mm, b ≤ 1750 mm and L ≤ 375 mm		
PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.



h ≤ 600 mm, b ≤ 2000 mm and L ≤ 175 mm		
PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.

Resistance to horizontal loads		NPD To be declared on the support
Resistance to bending		NPD To be declared on the support
Resistance to torsion		NPD To be declared on the support
Fixings:		Pass. The signs, sizes and gallows are intended for mounting at the top of another straight steel pipe. Together the gallows and the straight steel is the support for the sign. M6 Screws, nuts and washers are minimum A2, class 70 (fy,b = 450 MPa).
Temporary deflection (supports) -bending -torsion		NPD To be declared on the support
Permanent deflection		NDP
Performance under vehicle impact		NPD To be declared on the support

Visibility		**Value / description / class / reference**
Retroreflective signs: Daylight chromaticity & luminance factor	3M Advanced Engineering Grade Prismatic 7930	Pass, ETA 16/0006,
	3M High Intensity Prismatic 3930	Pass, ETA 13/0304
		Pass, ETA 11/0426,
		Pass, ETA 11/0427
	3M Engineering Grade Prismatic 3430	Pass, ETA 12/0550
		Pass, ETA 10/0118
	3M Diamond Grade DG	Pass, ETA 11/0522
		Pass, ETA 11/0521
		Pass, ETA 13/0303
Non retroreflective signs: Daylight chromaticity & luminance factor	3M Advanced Engineering Grade Prismatic 7930	NPD
	3M High Intensity Prismatic 3930	NPD
	3M Engineering Grade Prismatic 3430	NPD
	3M Diamond Grade DG	NPD
Retroreflective signs: Coefficient of retroreflection R_A	3M Advanced Engineering Grade Prismatic 7930	ETA 16/0006
	3M High Intensity Prismatic 3930	Class RA2, ETA 13/0304
		Class RA2, ETA 11/0426
		Class RA2, ETA 11/0427
	3M Engineering Grade Prismatic 3430	Class RA1, ETA 12/0550
		Class RA1, ETA 10/0118
	3M Diamond Grade DG	Class RA1, RA2, ETA 11/0521
		NPD, ETA 11/0522
		NPD, ETA 13/0303

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 3M Engineering Grade Prismatic 3430 3M Diamond Grade DG	Pass, ETA 16/0006 pass, ETA 13/0304 pass, ETA 11/0426 pass, ETA 11/0427 Pass, ETA 12/0550 Pass, ETA 10/0118 Pass, ETA 11/0521 Pass, ETA 11/0522 Pass, ETA 13/0303
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	Pass, ETA 16/0006 Pass, ETA 13/0304 Pass, ETA 11/0426 Pass, ETA 11/0427 Pass, ETA 12/0550 Pass, ETA 10/0118 Pass. ETA 11/0521 Pass, ETA 11/0522 Pass, ETA13/0303
Resistance to weatering – sign face material: Non retroreflective signs		NPD

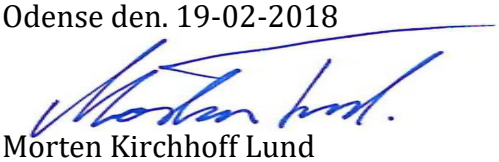
Corrosion resistance		Value / description / class / reference
Steel pipes and fins		Minimum S235 SP1 The pipe and fins are after manufacturing hot dip galvanized to a minimum of 60µm
Screws, nuts and washers		SP2 Minimum A2, Class 70
Aluminum plate		SP1 Lacquered Al-plate on exposed side if any
Resistance to penetration of dust and water		NPD The product can not be provided with compartments for electrical equipment

File number	Title	Date
None	Saferoad Daluiso A/S Calculation of minor traffic signs (ITC) Type BS, upper part Ø48,3 x 2,9, Ø48,3 x 3,0, and Ø48,3 x 3.2 mm steel pipes.	September 2016
	Saferoad Daluiso A/S Calculation of minor traffic signs (ITC) Type BS, upper part Ø48,3 x 2,9, Ø48,3 x 3,0, and Ø48,3 x 3.2 mm steel pipes. Revision 01	June 2017
	Saferoad Daluiso A/S Calculation of minor traffic signs (ITC) Shapes and sizes for signs mounted in gallows type GS, Revision 01	January 2018
	3M Advanced Engineer Grade Prismatic 7930: ETA 16/0006	2016-03-03
	3M High Intensity Prismatic 3930 ETA 13/0304 ETA 11/0426 ETA 11/047	2013-06-27 2013-06-27 2013-06-27
	3M Engineering Grade Prismatic 3430: ETA 10/0118 ETA 12/0550	2016-02-10 2013-06-07
	3M Diamond Grade DG: ETA 11/0521 ETA 11/0522 ETA 13/0303	2013-06-27 2013-06-27 2013-06-27

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. 19-02-2018



Morten Kirchhoff Lund
Quality and LEAN Manager