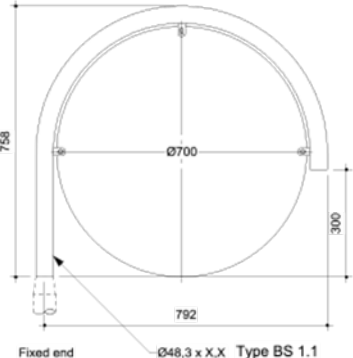


YDEEVNEDEKLARATION

Nr.: SR 00016

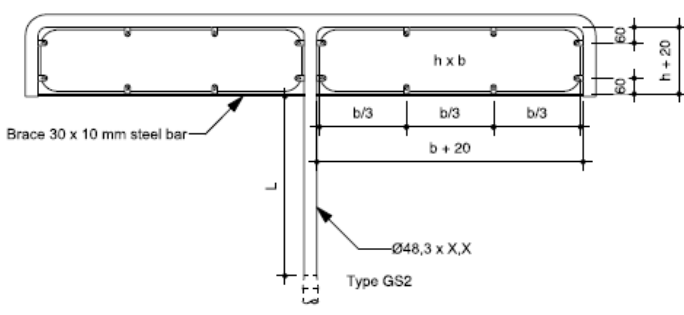
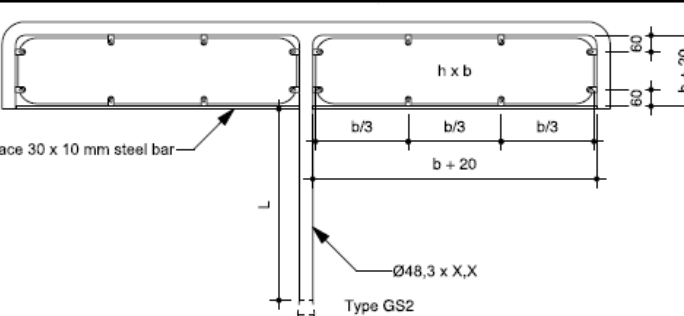

1. Byggevarere type:	Faste lodrette trafikskilte.
2. Byggevarere identifikation:	Rørgalger til montage af færdselstavler.
3. Byggevarere tilsigtede anvendelse:	
4. Producentens Navn og adresse:	Saferoad Daluiso A/S Hvidkærvej 33 5250 Odense SV
5. Systemerne til vurdering og kontrol af konstansen af byggevarere 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-CSC10016

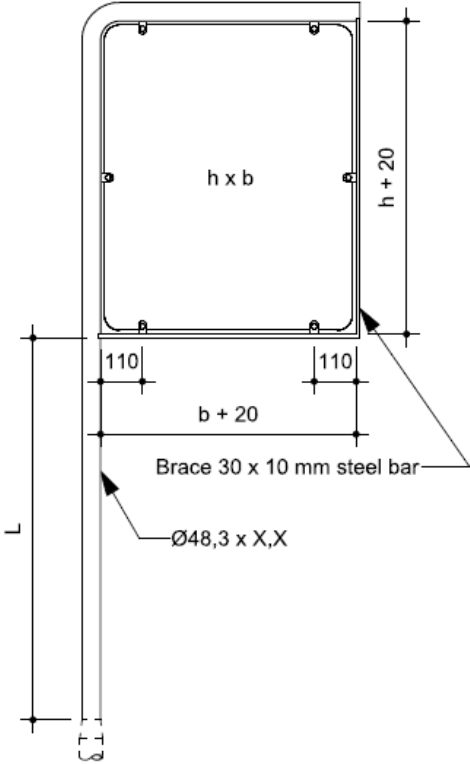
9. Deklareret ydeevne:

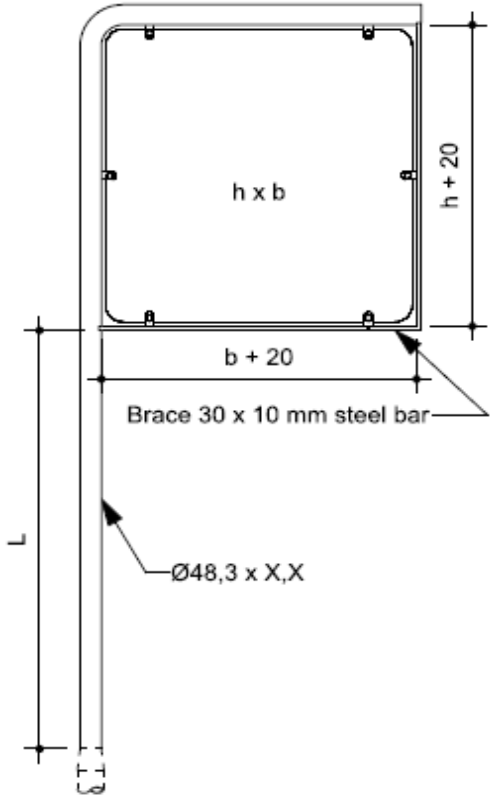
Sizes of signboards and different types of gallows Pipes: Minimum steel quality: S235 in dimension Ø48,3 x 2,9, Ø48,3 x 3,0 and Ø48,3 x 3,2 mm Signboard: Minimum aluminum quality: R _{p0,2} = 180 MPa, min. 2 mm thickness	Classification according to wind load classes		
	Placed in WL1	Placed in WL2	Placed 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.

<p>Fixed end Ø48,3 x X,X Type BS 1.2</p>	-	<p>Signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL2, DSL0, PL0, TDB1, TDT4 and SP1.</p>	<p>Signboard: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL3, DSL0, PL0, TDB2, TDT4 and SP1.</p>
<p>Type BS 2.1 Fixed end Ø48,3 x X,X</p>	<p>Signboard: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL1, DSL0, PL0, TDB1, TDT4 and SP1.</p>	<p>Signboard: PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL2, DSL0, PL0, TDB1, TDT4, and SP1.</p>	<p>Signboard: PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL3, DSL0, PL0, TDB2, TDT4 and SP1.</p>
<p>Type BS 2.2 Fixed end Ø48,3 x X,X</p>	-	<p>Signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL2, DSL0, PL0, TDB1, TDT3 and SP1.</p>	<p>Signboard: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL3, DSL0, PL0, TDB2, TDT4 and SP1.</p>
<p>Fixed end Type BS 3.1 Ø48,3 x X,X</p>	<p>Circular signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>300 x 700 mm signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL1, DSL0, PL0, TDB1, TDT4 and SP1.</p>	<p>Circular signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>300 x 700 mm signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL2, DSL0, PL0, TDB2, TDT4 and SP1.</p>	<p>Circular signboard: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>300 x 700 mm signboard: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL3, DSL0, PL0, TDB2, TDT5 and SP1.</p>

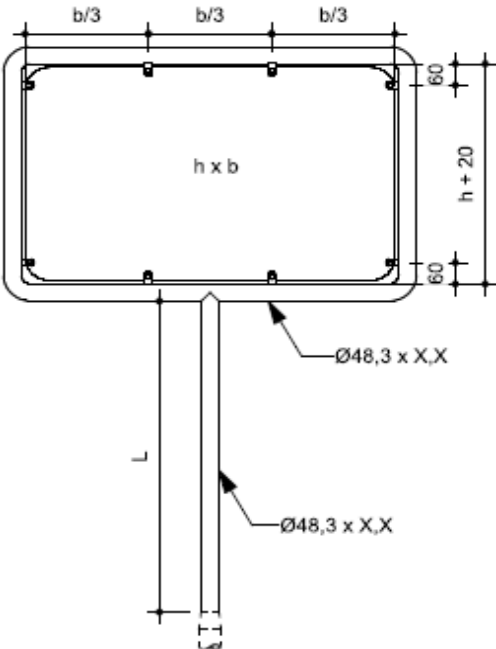
	<p>Circular signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>300 x 700 mm signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>600 x 700 mm signboard: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL1, DSL0, PL0, TDB3, TDT5 and SP1.</p>	<p>Signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>300 x 700 mm signboard: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p> <p>600 x 700 mm signboard: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p> <p>Gallows: PAF1, WL2, DSL0, PL0, TDB3, TDT6 and SP1.</p>	<p>-</p>																						
<p align="center">Sign, sizes and mounting system</p> <p>Pipes: Minimum steel quality: S235 in dimension $\text{Ø}48,3 \times 2,9$, $\text{Ø}48,3 \times 3,0$, $\text{Ø}48,3 \times 3,2$, $\text{Ø}60,3 \times 3,6$ and $\text{Ø}60,3 \times 4,5$ mm Signboard: Minimum aluminium quality: $R_{p0,2} = 180$ MPa, min. 2 mm thickness</p>		<p align="center">Classification according to wind load classes</p> <table border="1"> <thead> <tr> <th>Placed in WL1</th> <th>Placed in WL2</th> <th>Placed in WL3</th> </tr> </thead> <tbody> <tr> <td colspan="3"> $h \leq 235$ mm and $b \leq 1500$ mm $L \leq 1200$ mm </td> </tr> <tr> <td>PAF1, WL1, DSL0, PL0, TDB2, TDT4, P2, E1 and SP1.</td> <td>PAF1, WL2, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.</td> <td>PAF1, WL3, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.</td> </tr> <tr> <td colspan="3"> $h \leq 235$ mm and $b \leq 1750$ mm $L \leq 1200$ mm </td> </tr> <tr> <td>PAF1, WL1, DSL0, PL0, TDB2, TDT5, P2, E1 and SP1.</td> <td>PAF1, WL2, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.</td> <td>PAF1, WL3, DSL0, PL0, TDB3, TDT5, P2, E1 and SP1.</td> </tr> <tr> <td colspan="3"> $h \leq 235$ mm and $b \leq 2000$ mm $L \leq 1200$ mm </td> </tr> <tr> <td>PAF1, WL1, DSL0, PL0, TDB3, TDT6, P2, E1 and SP1.</td> <td>PAF1, WL2, DSL0, PL0, TDB4, TDT6, P2, E1 and SP1.</td> <td>PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</td> </tr> </tbody> </table>			Placed in WL1	Placed in WL2	Placed in WL3	$h \leq 235$ mm and $b \leq 1500$ mm $L \leq 1200$ 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.	$h \leq 235$ mm and $b \leq 1750$ mm $L \leq 1200$ 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.	$h \leq 235$ mm and $b \leq 2000$ mm $L \leq 1200$ 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.
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<p align="center">Upper part, single sign</p>																									

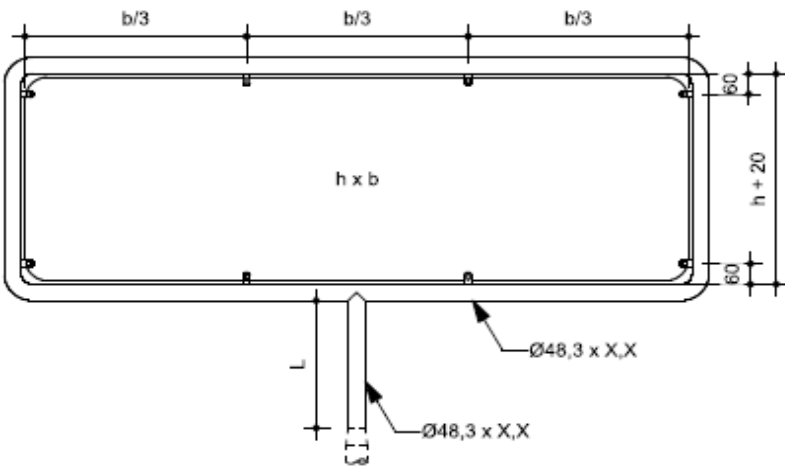
 <p>Upper part, double sign</p>	$h \leq 235 \text{ mm}$ and $b \leq 1500 \text{ mm}$ $L \leq 800 \text{ mm}$		
	PAF1, WL1, DSL0, PL0, TDB2, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB2, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1
 <p>Upper part, double sign</p>	$h \leq 235 \text{ mm}$ and $b \leq 1750 \text{ mm}$ $L \leq 800 \text{ mm}$		
	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
 <p>Upper part, double sign</p>	$h \leq 235 \text{ mm}$ and $b \leq 2000 \text{ mm}$ $L \leq 800 \text{ mm}$		
	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

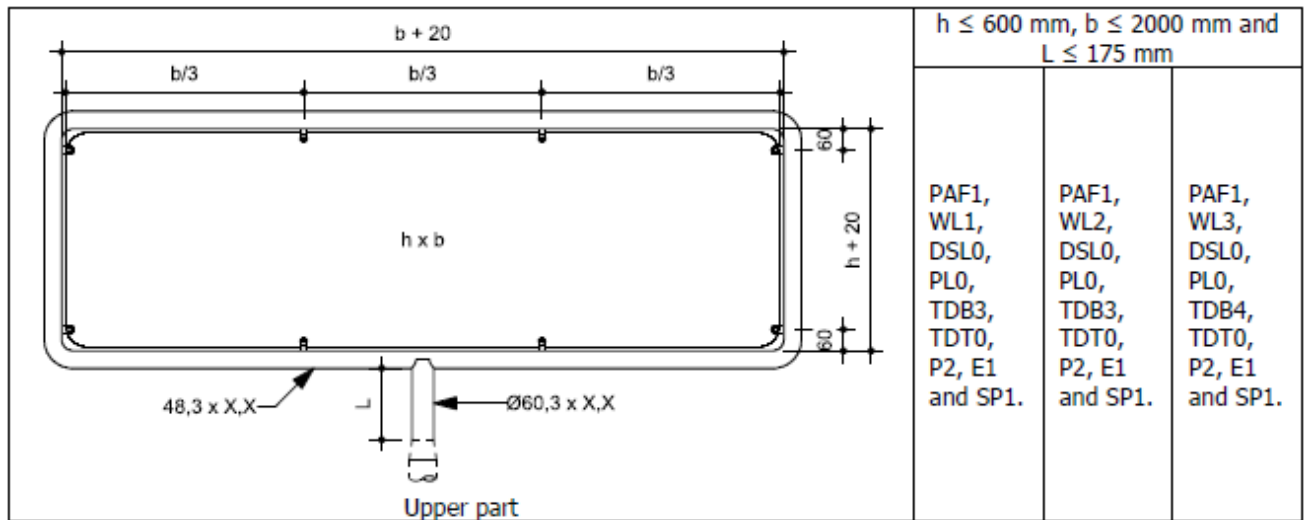
 <p style="text-align: center;">Upper part</p>	$h \leq 800 \text{ mm}$ and $b \leq 650 \text{ mm}$ $L \leq 1000 \text{ mm}$		
	PAF1, WL1, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB4, TDT3, P2, E1 and SP1.

	$h \leq 700 \text{ mm}$ and $b \leq 700 \text{ mm}$ $L \leq 1000 \text{ mm}$		
 <p data-bbox="550 1075 678 1108">Upper part</p>	<p data-bbox="1061 1052 1189 1276">PAF1, WL1, DSL0, PLO, TDB3, TDT1, P2, E1 and SP1.</p>	<p data-bbox="1204 1052 1332 1276">PAF1, WL2, DSL0, PLO, TDB3, TDT2, P2, E1 and SP1.</p>	<p data-bbox="1340 1052 1468 1276">PAF1, WL3, DSL0, PLO, TDB4, TDT3, P2, E1 and SP1.</p>

<p style="text-align: center;">Upper part</p>	$h \leq 700 \text{ mm}, h_1 \leq 300 \text{ mm}$ $\text{and } b \leq 700 \text{ mm}$ $L \leq 700 \text{ mm}$		
<p style="text-align: center;">Upper part</p>	$h \leq 700 \text{ mm}, h_1 \leq 300 \text{ mm}$ $h_2 \leq 300 \text{ mm and } b \leq 700 \text{ mm}$ $L \leq 300 \text{ mm}$		
<p>PAF1, WL1, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.</p>	<p>PAF1, WL2, DSL0, PL0, TDB3, TDT2, P2, E1 and SP1.</p>	<p>PAF1, WL3, DSL0, PL0, TDB4, TDT3, P2, E1 and SP1.</p>	
<p>PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.</p>	<p>PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.</p>	<p>PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.</p>	

 <p>Upper part</p>	$h \leq 600 \text{ mm}$, $b \leq 1000 \text{ mm}$ and $L \leq 875 \text{ mm}$		
	PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL2, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.

 <p>Upper part</p>	$h \leq 600 \text{ mm}$, $b \leq 1750 \text{ mm}$ and $L \leq 375 \text{ mm}$		
	PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL2, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.	PAF1, WL3, DSL0, PLO, TDB2, 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 ($f_{y,b} = 450 \text{ MPa}$).
Temporary deflection (supports) -bending -torsion		NPD To be declared on the support
Permanent deflection		NPD
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 3M High Intensity Prismatic 3930 3M Engineering Grade Prismatic 3430 3M Diamond Grade DG	ETA 16/0006 ETA 17/0465 ETA 18/0290 ETA 12/0550 ETA 10/0118 ETA 18/0405
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	ETA 16/0006 ETA 17/0465 ETA 18/0290 ETA 12/0550 ETA 10/0118 ETA 18/0405
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 17/0465 pass, ETA 18/0290 Pass, ETA 12/0550 Pass, ETA 10/0118 Pass, ETA 18/0405

Resistance to weathering – sign face material: Retroreflective signs	3M Advanced Engineering Grade Prismatic 7930	ETA 16/0006 ETA 17/0465
	3M High Intensity Prismatic 3930	ETA 18/0290
	3M Engineering Grade Prismatic 3430	ETA 12/0550 ETA 10/0118
	3M Diamond Grade DG	ETA 18/0405
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	<p>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.</p> <p>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</p> <p>Saferoad Daluiso A/S Calculation of minor traffic signs (ITC) Shapes and sizes for signs mounted in gallows type GS, Revision 01</p> <p>3M Advanced Engineer Grade Prismatic 7930: ETA 16/0006 ETA 17/0465</p> <p>3M High Intensity Prismatic 3930 ETA 18/0290</p> <p>3M Engineering Grade Prismatic 3430: ETA 10/0118 ETA 12/0550</p> <p>3M Diamond Grade DG: ETA 18/0405</p>	<p>September 2016</p> <p>June 2017</p> <p>January 2018</p> <p>2016-03-03 2017-07-26</p> <p>2018-06-21</p> <p>2016-02-10 2013-06-07</p> <p>2018-06-21</p>

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. 22-11-2018



Morten Kirchhoff Lund
Quality and LEAN Manager