Certificate No.: 2531–CPR–CSC10036

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

Sign plate with protective edge for fixed vertical road traffic signs

Scope: Sign plates with protective edge and sign face materials applied for fixed vertical road traffic signs (ZA.5)

The product fulfils the essential characteristic:

See Annex 1

Intended use: Permanent traffic signs

Placed on the market under the name or trade mark of:

Saferoad Daluiso A/S
Hvidkærvej 33
5260 Odense SV

and produced in the manufacturing plant:

CPA30003

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 12899-1:2007 : Fixed, vertical road traffic signs-Part 1: Fixed signs

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: **2020-12-15**.

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

(This certificate supersedes the previous version of this certificate issued)

This certificate was first issued .

Allan Laursen
Responsible for evaluation

Jesper Viggo Quaade
Responsible for certification decision

DANAK
Prod. Reg. Nr. 7023

DBI Certification A/S
Jernholmen 12, 2650 Hvidovre
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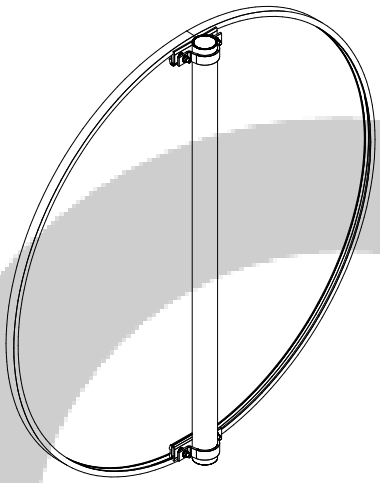
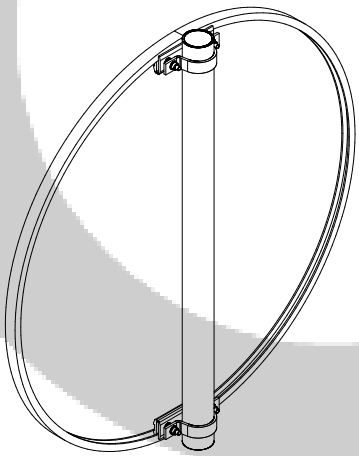
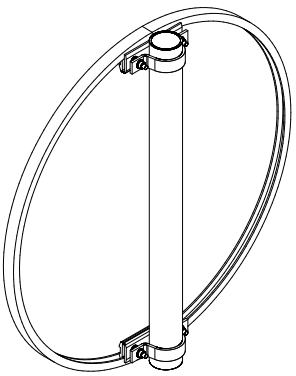
E-mail: info@dbicertification.dk
www.dbicertification.dk

Annex 1
Description and classification:

Sign, sizes and mounting system Protective edge: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Brackets: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Sign plate: Minimum aluminium quality: $R_{p0,2}$ = 180 MPa	**Classification according to wind load classes**				
	Placed in WL1	Placed in WL2	Placed in WL3	Placed in WL4	Placed in WL5
 d ≤ 1200 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.
 d ≤ 900 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.
 d ≤ 700 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.

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Sign, sizes and mounting system Protective edge: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Brackets: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Sign plate: Minimum aluminium quality: $R_{p0,2}$ = 180 MPa	**Classification according to wind load classes**				
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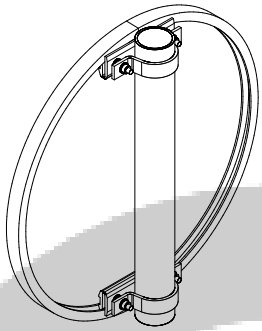
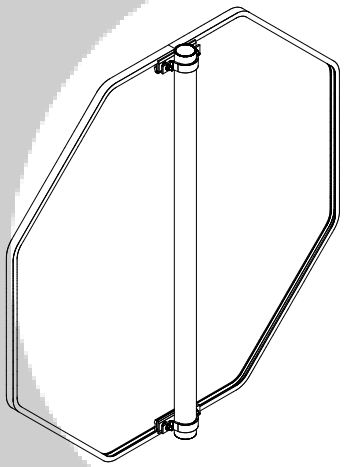
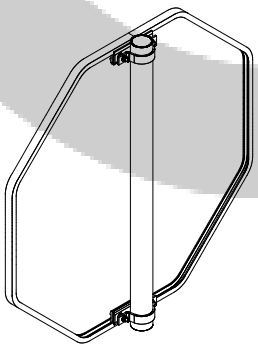
 d ≤ 500 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.
 h ≤ 1250 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	N/A
 h ≤ 900 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.

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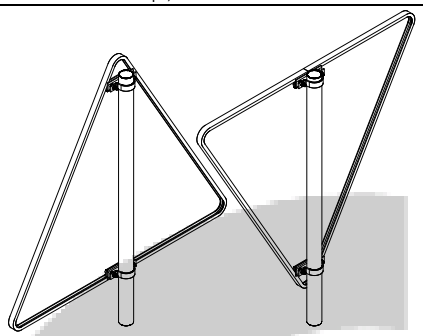
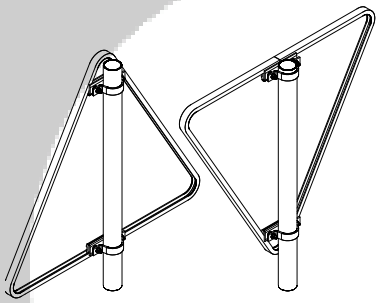
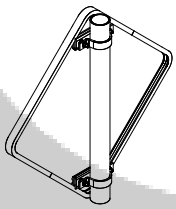
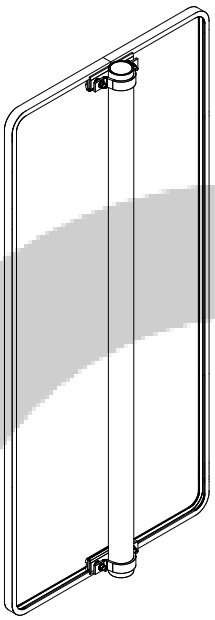
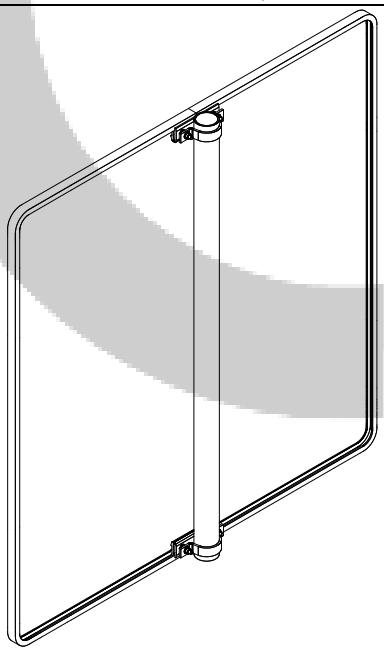
Sign, sizes and mounting system Protective edge: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Brackets: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Sign plate: Minimum aluminium quality: $R_{p0,2}$ = 180 MPa	**Classification according to wind load classes**				
	Placed in WL1	Placed in WL2	Placed in WL3	Placed in WL4	Placed in WL5
 s ≤1250 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.
 s ≤ 900 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.
 a ≤ 500 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.

Sign, sizes and mounting system Protective edge: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Brackets: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Sign plate: Minimum aluminium quality: $R_{p0,2}$ = 180 MPa	**Classification according to wind load classes**				
	Placed in WL1	Placed in WL2	Placed in WL3	Placed in WL4	Placed in WL5
 h x b ≤ 1450 x ≤ 650 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.
 h x b ≤ 1250 x ≤ 1200 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.

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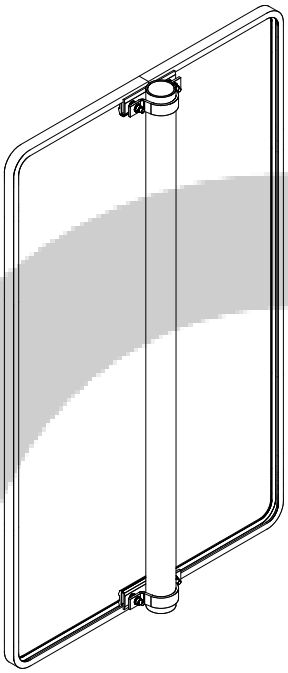
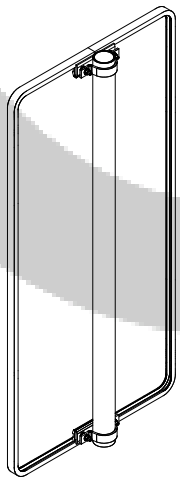
	Placed in WL1	Placed in WL2	Placed in WL3	Placed in WL4	Placed in WL5
 h x b ≤ 1250 x ≤ 750 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.
 h x b ≤ 1250 x ≤ 600 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.

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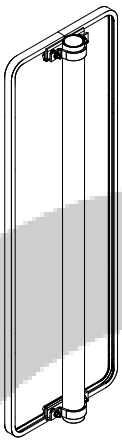
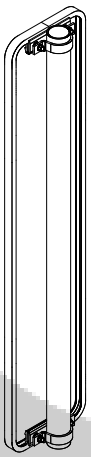
 h x b ≤ 1250 x ≤ 400 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.
 h x b ≤ 1250 x ≤ 250 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.

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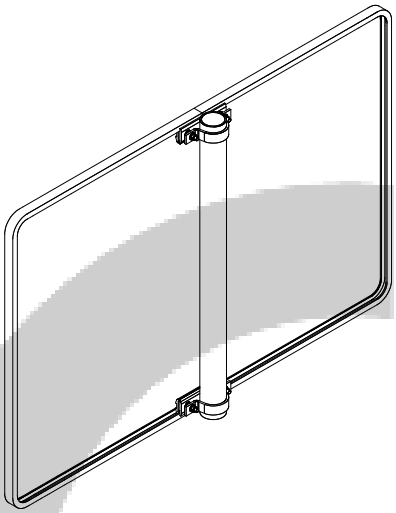
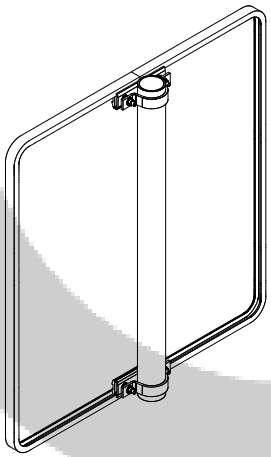
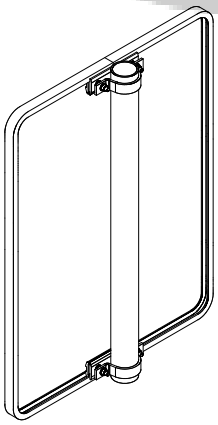
 h x b ≤ 800 x ≤ 1200 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB5, TDT0, P2, E2 and SP1.
 h x b ≤ 800 x ≤ 750 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.
 h x b ≤ 800 x ≤ 600 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.

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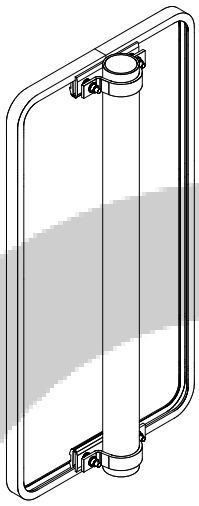
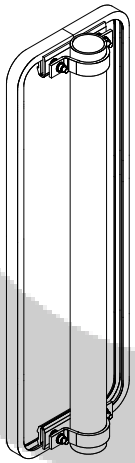
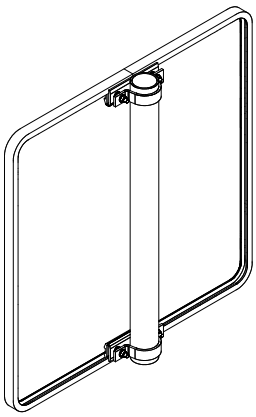
 h x b ≤ 800 x ≤ 400 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.
 h x b ≤ 800 x ≤ 250 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.
 h x b ≤ 700 x ≤ 700 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.

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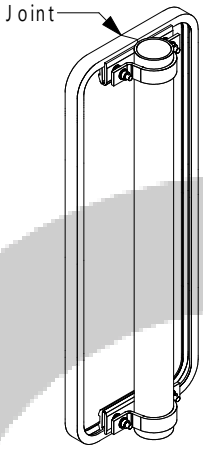
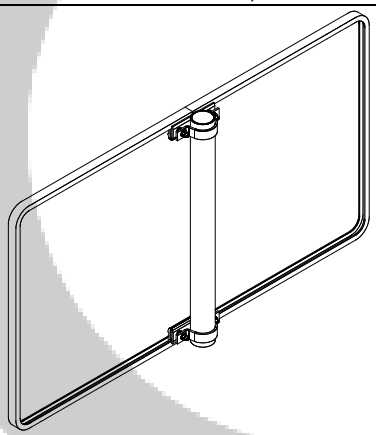
Sign, sizes and mounting system Protective edge: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Brackets: Minimum aluminium quality: $R_{p0,2}$ = 200 MPa Sign plate: Minimum aluminium quality: $R_{p0,2}$ = 180 MPa	Classification according to wind load classes				
	Placed in WL1	Placed in WL2	Placed in WL3	Placed in WL4	Placed in WL5
 h x b ≤ 700 x ≤ 250 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB2, TDT0, P2, E2 and SP1.
 h x b ≤ 650 x ≤ 1200 mm, t = 2 mm	**Sign plate and brackets:** PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	**Sign plate and brackets:** PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 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 are intended for mounting at the top of another straight steel pipe. Together the signs and the straight steel is the support for the sign. Glue for fixing the signs into the bracket according to DIN 53504: Load bearing capacity: ≥ 1.5 MPa Elasticity moduls: ≥ 0.65 MPa Charge on broken: ≥ 1.55 MPa Elongation at breaks: ≥ 300 % Shore A hardness: ≥ 40 Themal resistance: -40 to 90°C Pressure force for tightening: 2 kN fot the clamp. 5 kN for the brackets. M8 Screws, nuts and washers are minimum A2, class 70 ($f_{y,b}$ = 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

Declarations (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
Declarations(External illumination)		**Value/description/class/reference**
Mean illuminance		NPD
Uniformity of illuminance		NPD
Declarations(Durability)		**Value/description/class/reference**
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 ETA 17/0465 Pass, ETA 18/0290 Pass, ETA 12/0550 Pass, ETA 10/0118 Pass, ETA 18/0405
Resistance to weatering – 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	ETA 16/0006, ETA 17/0465 ETA 18/0290 ETA 12/0550 ETA 10/0118 ETA 18/0405
Resistance to weatering – sign face material: Non retroreflective signs		Aluminium: None or anodizing 20µm, nature. Srews, nuts, and washers: Min. A2 or FZV.
Corrosion resistence		
Brackets		SP1 Minimum S235 Hot dip galavanized according to EN 1461
Srews, nuts and washers		M8: fy,b≥ 450MPa,minimum A2 or FZV SP1
Aluminium plate		SP1 Laquered AL-plate on exposed side if any.
Restistence to penetration of dust and water		NPD

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Annex 2

TECHNICAL BASIS

Accredited Laboratory	Report no.	Date
None	Saferoad Daluiso A/S Calculation of minor traffic signs (ITC) Shapes and sizes for signs with protection edge mounted on brackets made of an extruded aluminium profile.	December 2020, rev. 4
	3M Advanced Engineer Grade Prismatic 7930: ETA 16/0006 ETA 17/0465	 2016-03-03 2017-07-26
	3M High Intensity Prismatic 3930 ETA 18/0290	 2018-06-21
	3M Engineering Grade Prismatic 3430: ETA 10/0118 ETA 12/0550	 2016-02-10 2018-06-06
	3M Diamond Grade DG: ETA 18/0405	 2018-06-21

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