

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 plates for fixed vertical road traffic signs

Scope: Sign plates with 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:

**Infra Group Danmark ApS
Industrivej 17
5750 Ringe**

and produced in the manufacturing plant:

CPA30005

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: **2018-11-21**

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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 2018-04-18)

This certificate was first issued 2017-11-30.



Per Lyster
Responsible for evaluation



Merete Poulsen
Responsible for certification decision

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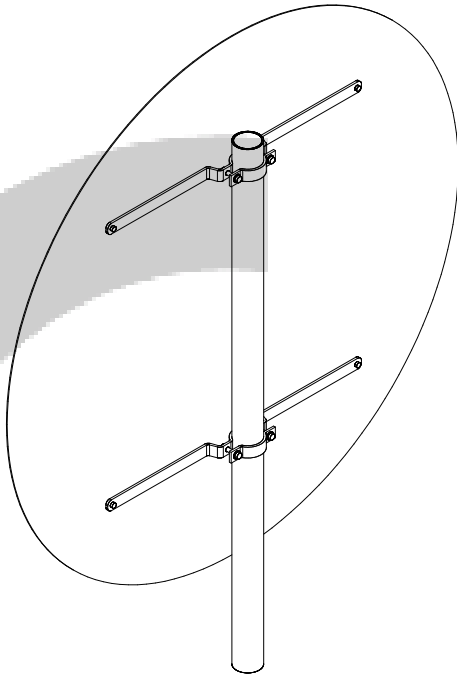
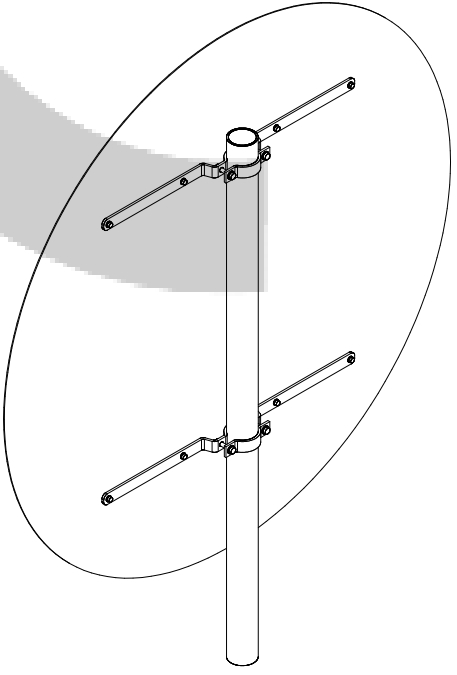


Prod. Reg. Nr. 7023

Version 2016-01-07
Page **1** of **27**

Annex 1

Description and classification:

Sign, sizes and mounting system Brackets: Minimum steel quality: S235 Signboard: Minimum aluminium quality: $R_{p0,2} = 180$ MPa Pipe dimension Ø48,3, Ø60,3, Ø76,1 or 88,9 mm Single sided or double sides mounting	Classification according to wind load classes		
	Placed in WL1	Placed in WL2	Placed in WL3
 $d \leq 1200$ mm, $t = 2$ mm, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.
 $d \leq 1200$ mm, $t = 2$ mm, brackets Type 2	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.

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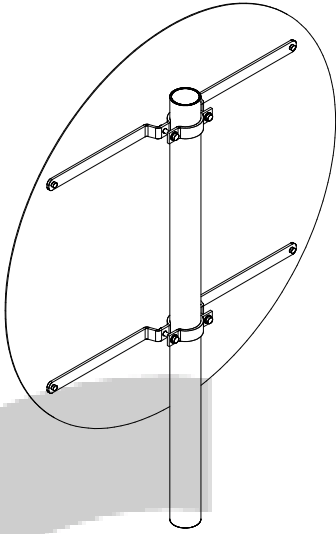
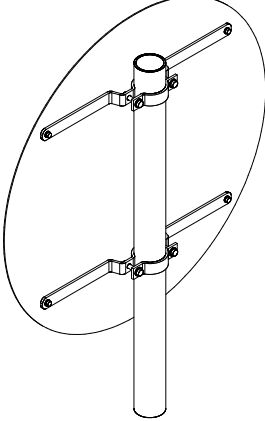
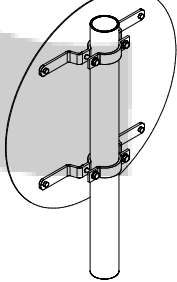
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Version 2016-01-07
 Page 2 of 27

 <p>$d \leq 900 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$d \leq 700 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>
 <p>$d \leq 500 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>

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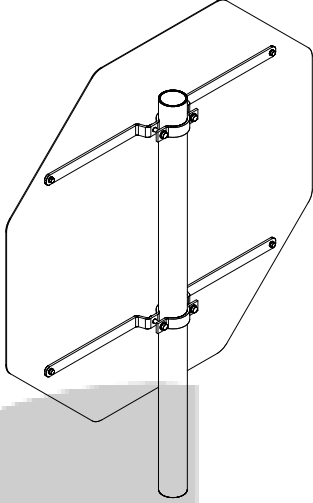
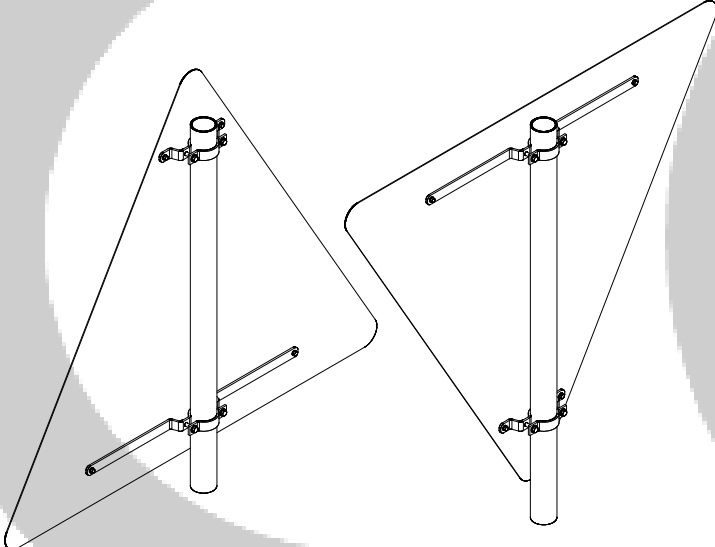
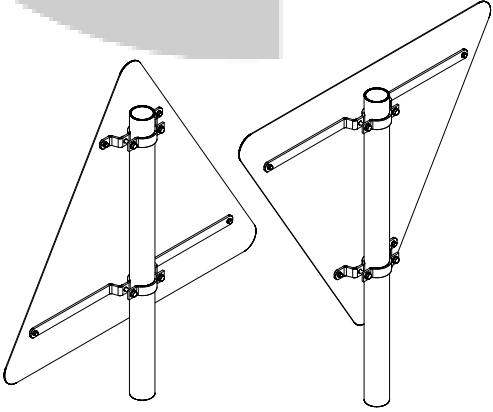
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Version 2016-01-07
Page 3 of 27

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 <p>$s \leq 1250 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>
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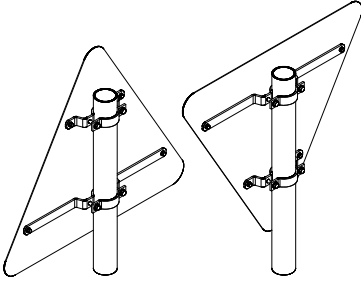
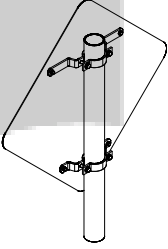
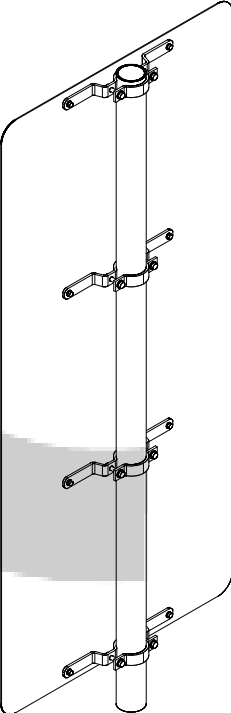
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Version 2016-01-07
Page 4 of 27

 <p>$S \leq 700 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>
 <p>$a \leq 500 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 1450 \times \leq 650 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>

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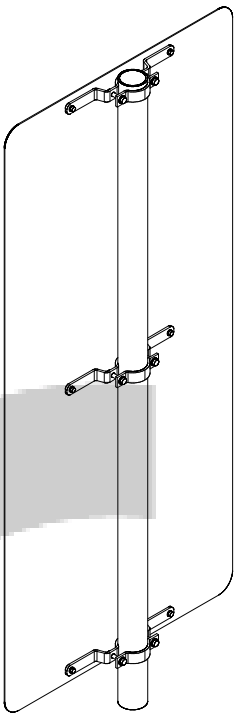
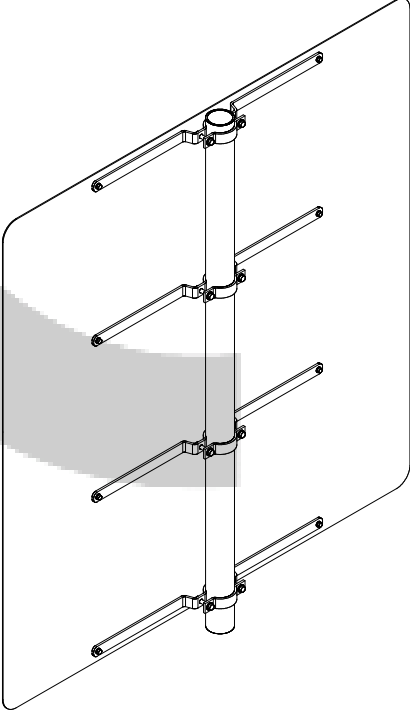
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Version 2016-01-07
Page 5 of 27

 <p>$h \times b = \leq 1450 \times \leq 650 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 1250 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.</p>

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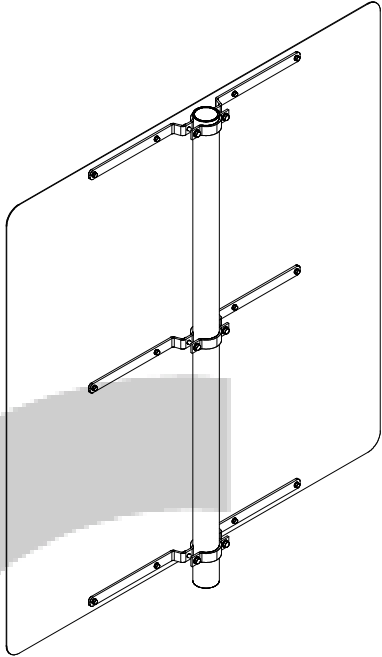
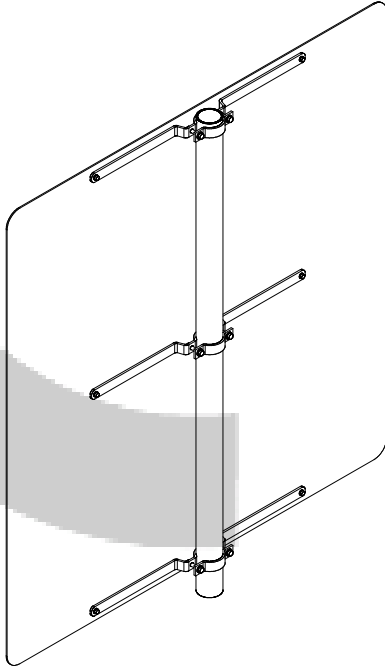
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Version 2016-01-07
Page 6 of 27

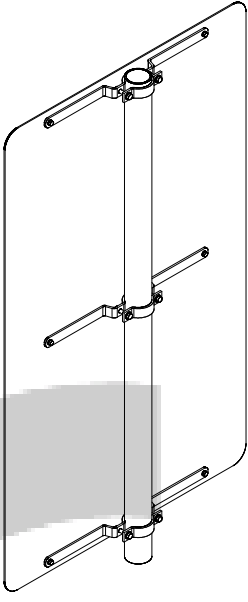
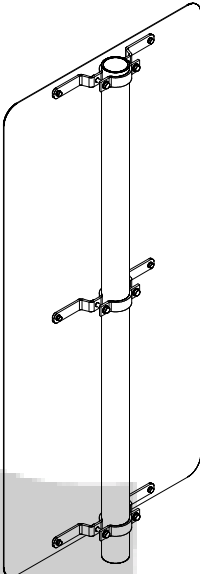
 <p>$h \times b = \leq 1250 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 2}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB6, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 1250 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB6, TDT0, P2, E1 and SP1.</p>

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 <p>$h \times b = \leq 1250 \times \leq 750 \text{ mm}, t = 2 \text{ mm}, \text{brackets type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 1250 \times \leq 600 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>

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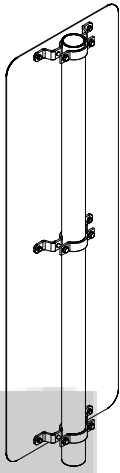

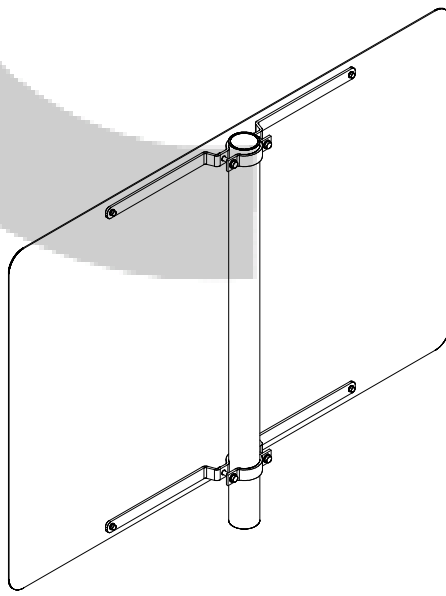
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Version 2016-01-07
Page 8 of 27

 <p>$h \times b = \leq 1250 \times \leq 400 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 1250 \times \leq 250 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 800 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>

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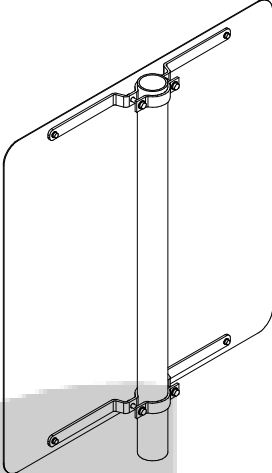
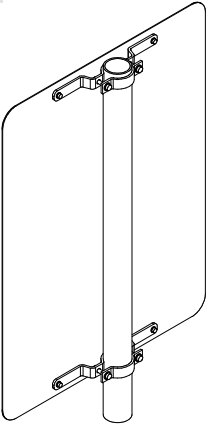
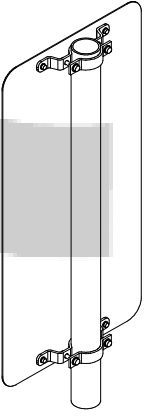
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Version 2016-01-07
Page 9 of 27

 <p>$h \times b = \leq 800 \times \leq 750 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 800 \times \leq 600 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 800 \times \leq 400 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>

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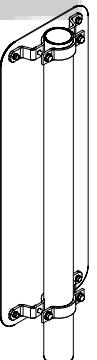
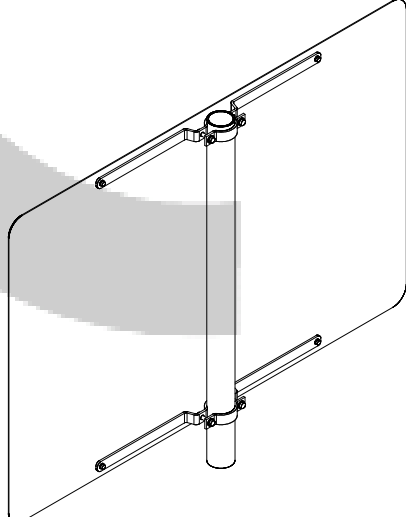
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Version 2016-01-07
Page **10** of **27**

 <p>$h \times b = \leq 800 \times \leq 250 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 700 \times \leq 250 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 650 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB5, TDT0, P2, E1 and SP1.</p>

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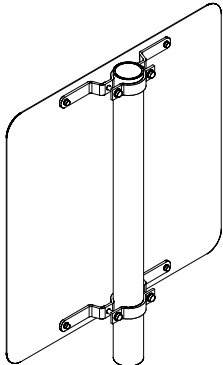
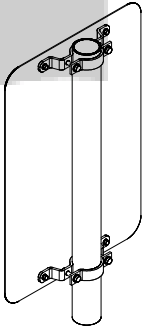
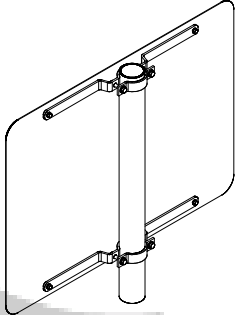
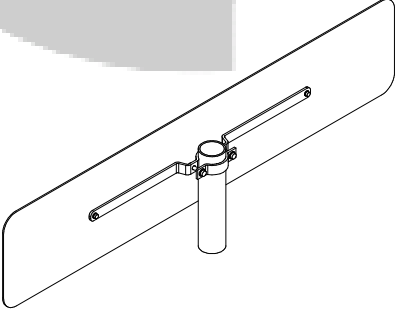
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Prod. Reg. Nr. 7023

Version 2016-01-07
Page **11** of **27**

 <p>$h \times b = \leq 600 \times \leq 600 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 600 \times \leq 400 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 550 \times \leq 750 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>
 <p>$h \times b = \leq 250 \times \leq 1200 \text{ mm}$, $t = 2 \text{ mm}$, bracket Type 1</p>	<p>Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.</p>	<p>Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.</p>

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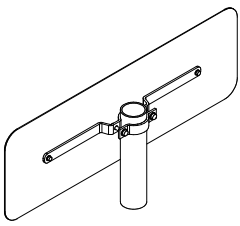
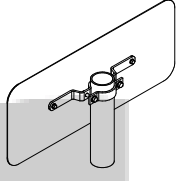
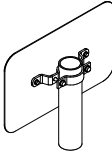
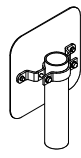
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 **DANAK**
Prod. Reg. Nr. 7023

Version 2016-01-07
Page **12** of **27**

 <p>$h \times b = \leq 250 \times \leq 750 \text{ mm}$, $t = 2 \text{ mm}$, bracket Type 1</p>	Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB3, TDT0, P2, E1 and SP1.
 <p>$h \times b = \leq 250 \times \leq 600 \text{ mm}$, $t = 2 \text{ mm}$, bracket Type 1</p>	Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.
 <p>$h \times b = \leq 250 \times \leq 400 \text{ mm}$, $t = 2 \text{ mm}$, bracket Type 1</p>	Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.
 <p>$h \times b = \leq 250 \times \leq 250 \text{ mm}$, $t = 2 \text{ mm}$, bracket Type 1</p>	Signboard and brackets: PAF1, WL1, DSL0, PLO, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PLO, TDB2, TDT0, P2, E1 and SP1.

The different types, shapes and sizes of minor traffic signs including mounting system are shown in Figure 1 and Figure 2.

The variation of the sizes for the individual types and shapes inclusive mounting system are shown in Figure 1 to Figure 6 and in Table 1.

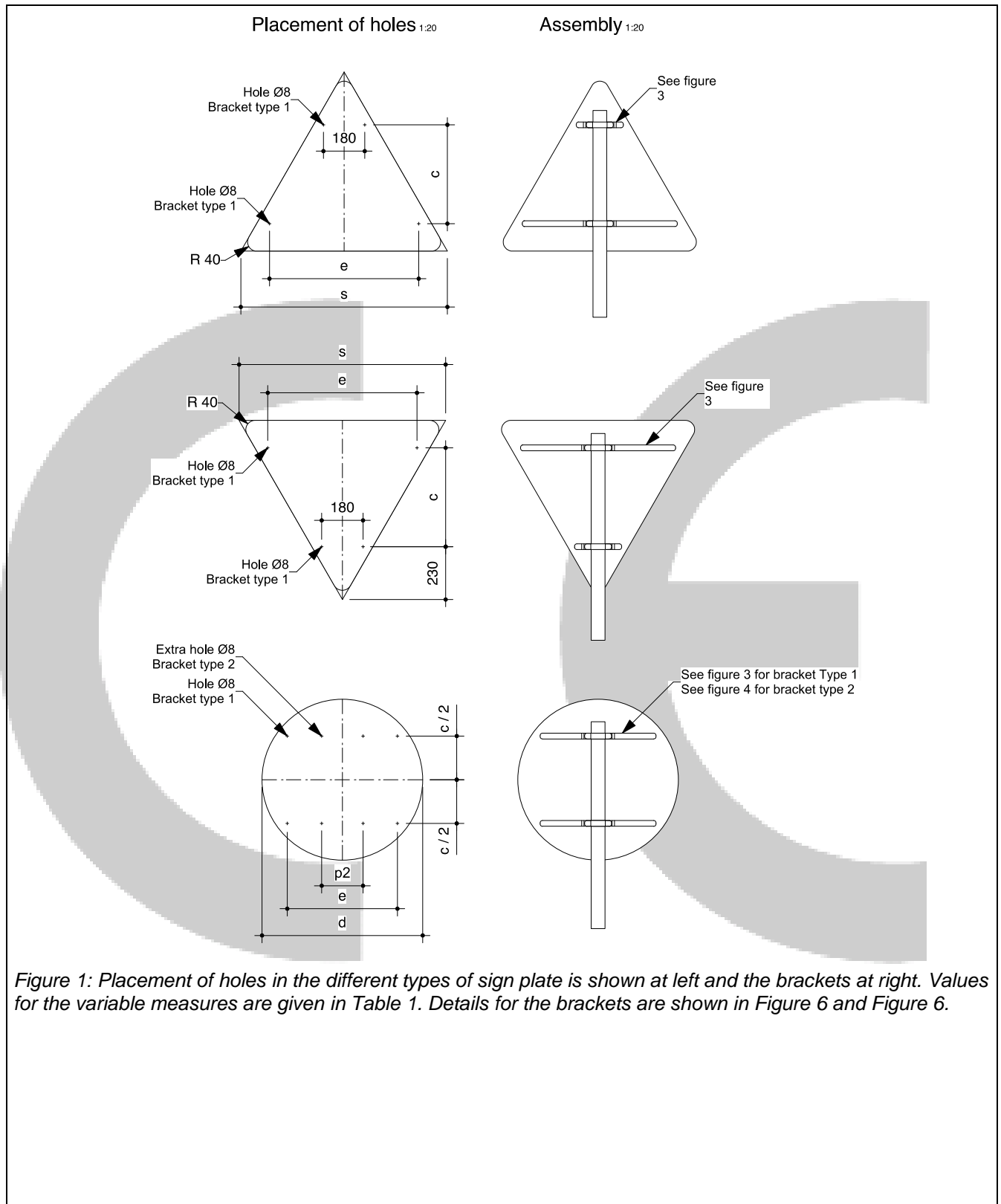


Figure 1: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 6 and Figure 6.

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DANAK
Prod. Reg. Nr. 7023

Version 2016-01-07
Page **14** of **27**

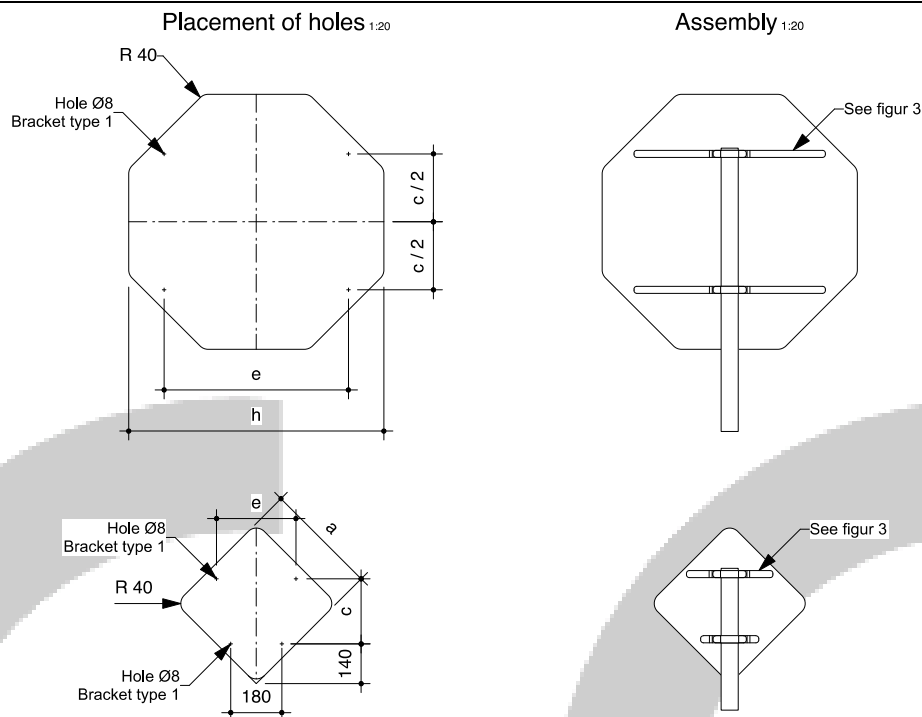


Figure 2: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 5 and Figure 6.

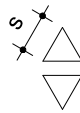



Shape	Size	Variable measures		Minimum numbers of brackets			
		c	e	e = 180	e = 280	e = 480	e = 650
	s = 700	255	480	1		1	
	s = 900	430	650	1			1
	s = 1250	750	650	1			1
	d = 500	290	280		2		
	d = 700	390	480			2	
	d = 900	480	650				2
	d = 1200	640	650				2
	h = 900	490	650				
	a = 500	370	280	1	1		

Table 1: Variable measures of the different sign types and their numbers of brackets to be used for the sign plates shown in Figure 1 and Figure 2.

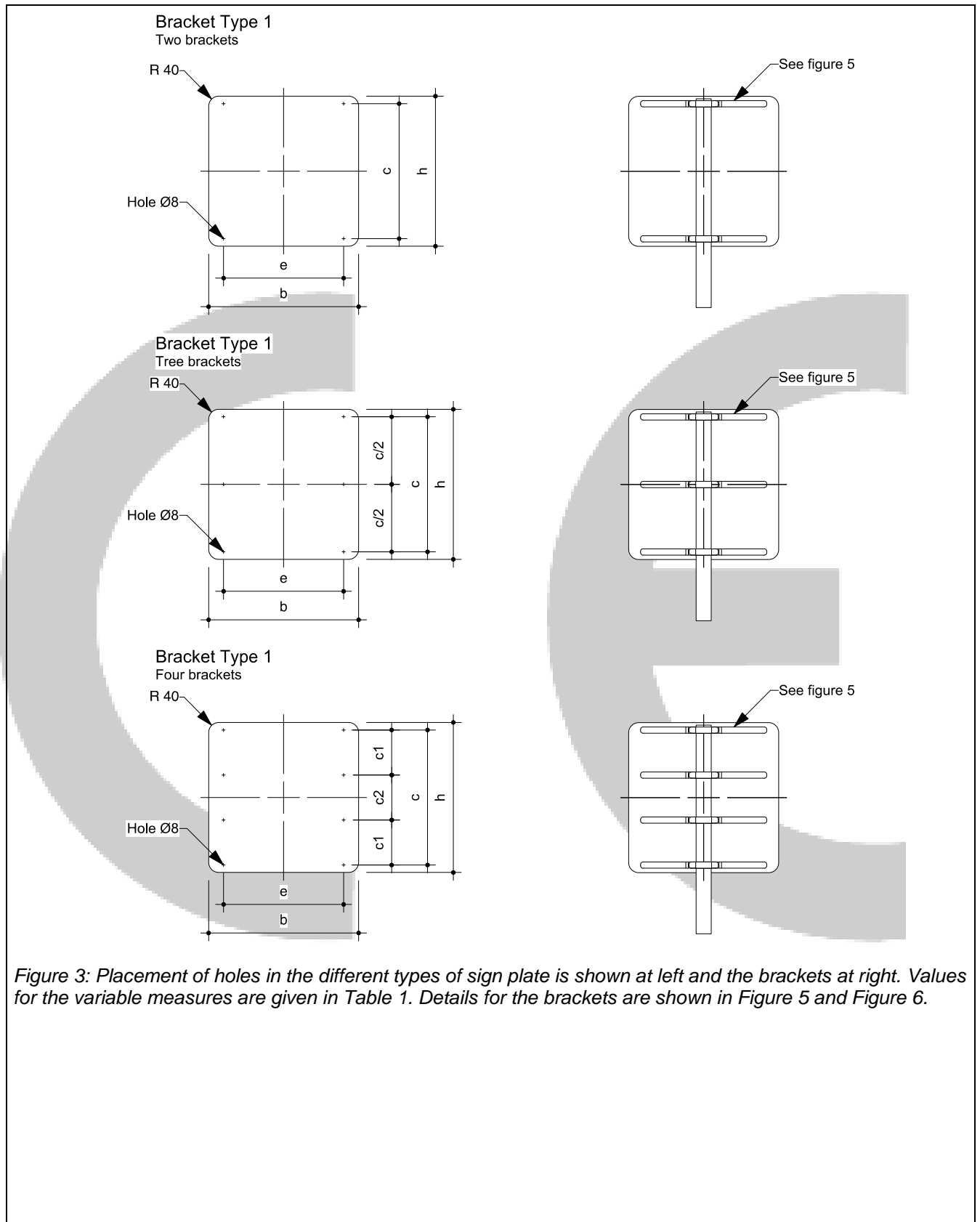


Figure 3: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 5 and Figure 6.

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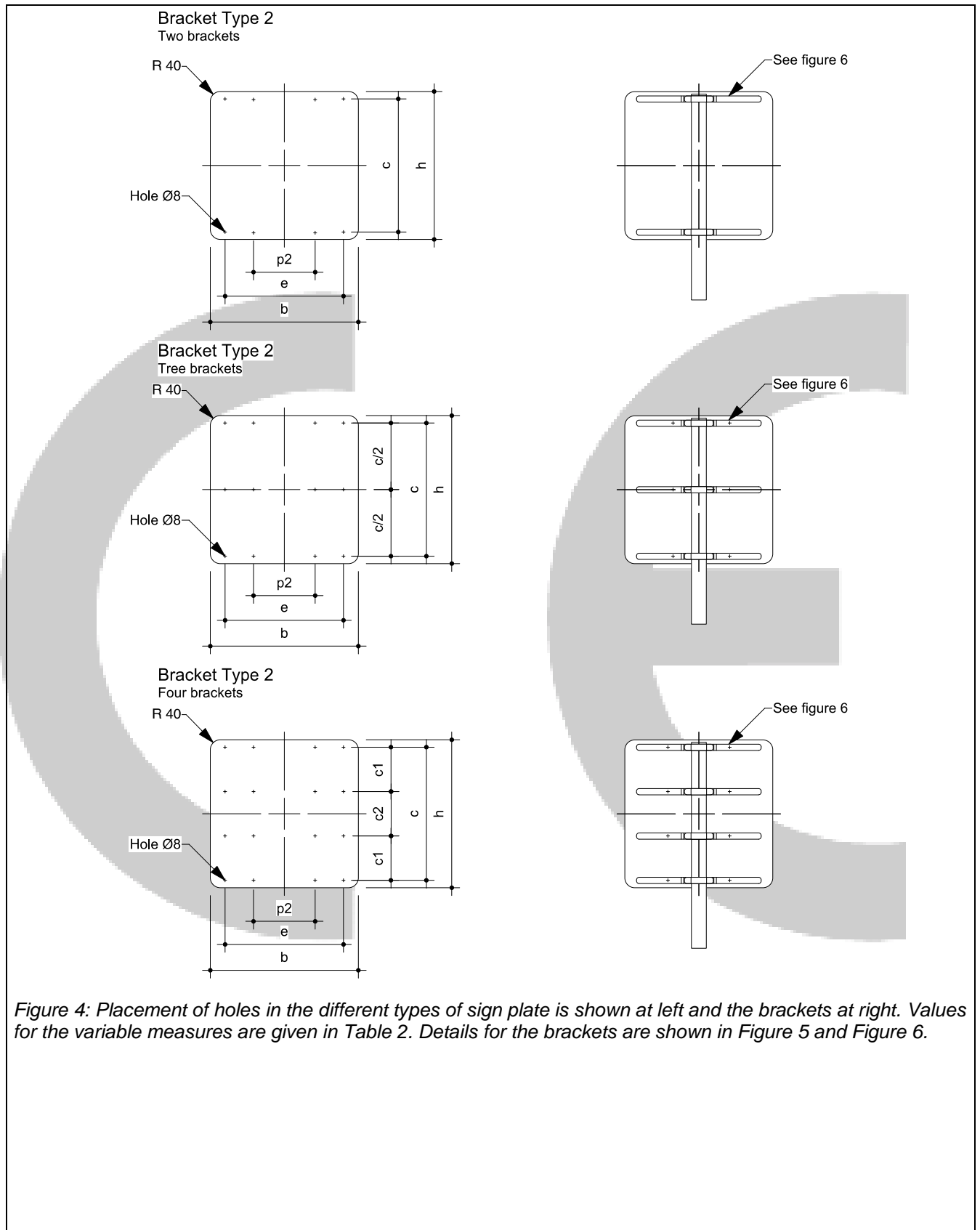
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Prod. Reg. Nr. 7023

Version 2016-01-07
Page **16** of **27**



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DANAK
Prod. Reg. Nr. 7023

Version 2016-01-07
Page **17** of **27**

h	b	c	c1	c2	e	Minimum numbers of brackets
1450	650	1389	463	463	280	4
1450	650	1390	-	-	280	3
1250	1200	1190	395	400	650	4
1250	1200	1190	-	-	650	3
1250	750	1190	-	-	480	3
1250	600	1190	-	-	280	3
1250	400	1190	-	-	180	3
1250	250	1190	-	-	180	3
800	1200	740	-	-	650	2
800	750	740	-	-	480	2
800	600	740	-	-	280	2
800	400	740	-	-	180	2
800	250	740	-	-	180	2
700	250	640	-	-	180	2
650	1200	590	-	-	650	2
600	600	540	-	-	280	2
600	400	540	-	-	180	2
550	750	490	-	-	480	2
250	1200	-	-	-	650	1
250	750	-	-	-	480	1
250	600	-	-	-	280	1
250	400	-	-	-	180	1
250	250	-	-	-	180	1

Table 2: Variable measures of the different sign types and their numbers of brackets to be used for the sign plates shown in Figure 3 and Figure 4.

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 Prod. Reg. Nr. 7023

Version 2016-01-07
 Page **18** of **27**

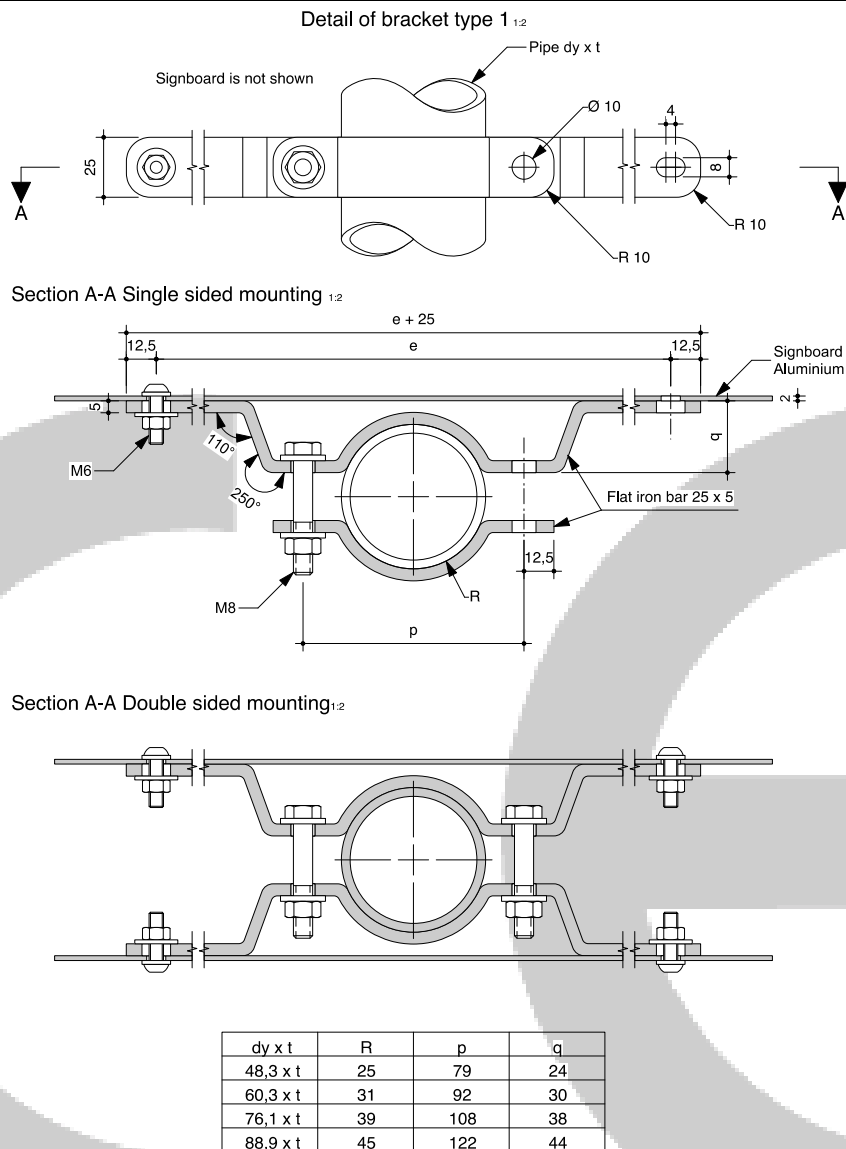


Figure 5: Brackets Type 1.

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Prod. Reg. Nr. 7023

Version 2016-01-07
Page **19** of **27**

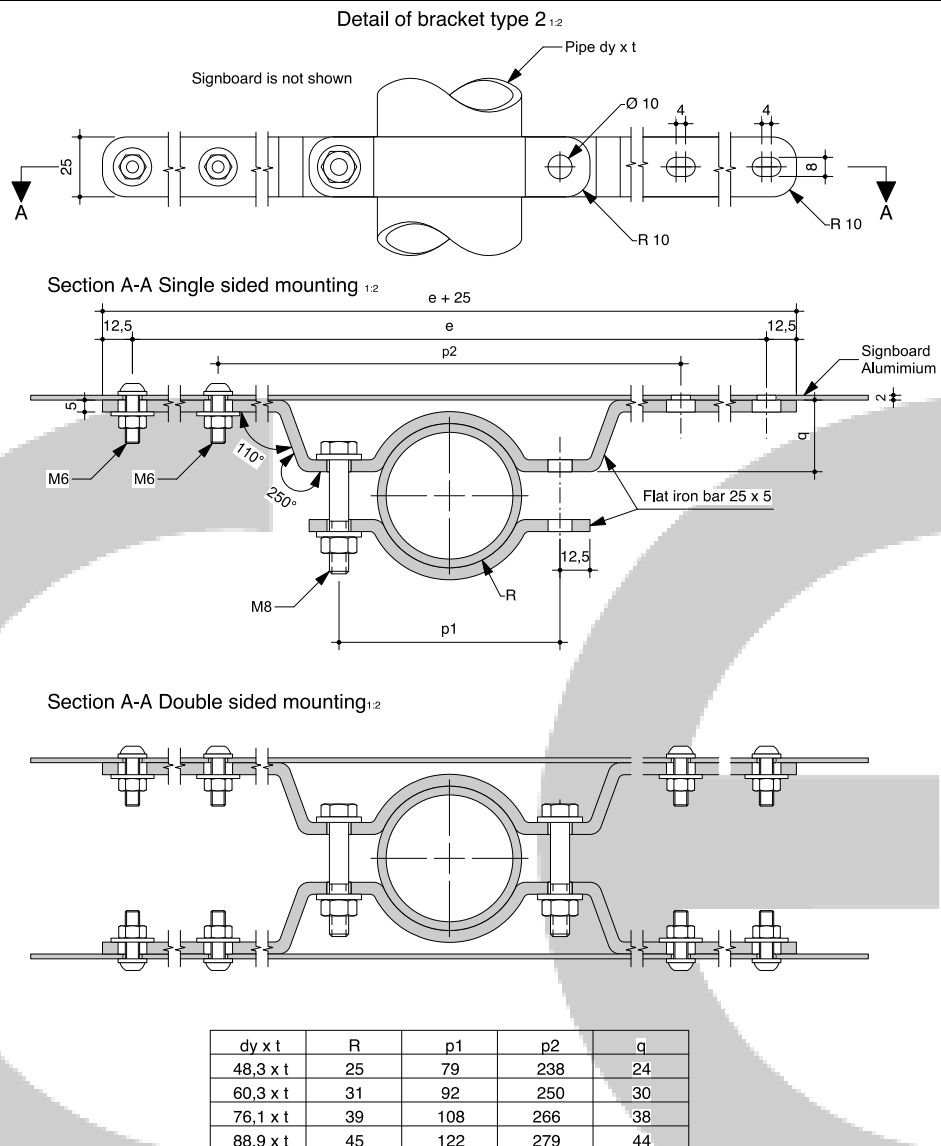


Figure 6: Brackets Type 2.

Fixings:

Pass.

M6: $f_y \geq 370$ MPa

M8: $f_y \geq 400$ MPa

Pressure force for tightening:

M6: 5 kN

M8: 2 kN

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DANAK
Prod. Reg. Nr. 7023

Version 2016-01-07
Page **20** of **27**

Certificate No.: 2531–CPR–CSC10021

Issue date: 2018-11-21



ORALITE® 5710 Engineering Grade:					
Retroreflective sheeting ORALITE® 5710 Engineering Grade with the following original dyed colours:					
Colour	Name of product	Visibility characteristics		Durability	
		Daylight Chromaticity & luminance factor 4.1.1.3. For black colours: 7.2.2.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.	Resistance to weathering 4.1.1.5. For black colours: 7.2.2.1.4
White	ORALITE® 5710-010 Engineering Grade	CR2	RA1	pass	pass
Yellow	ORALITE® 5710-020 Engineering Grade	CR2	RA1	pass	pass
Red	ORALITE® 5710-030 Engineering Grade	CR2	RA1	pass	pass
Blue	ORALITE® 5710-050 Engineering Grade	CR2	RA1	pass	pass
Green	ORALITE® 5710-060 Engineering Grade	CR2	RA1	pass	pass
Orange	ORALITE® 5710-035 Engineering Grade	CR1	RA1	pass	pass
Brown	ORALITE® 5710-080 Engineering Grade	CR2	RA1	pass	pass
Retroreflective sheeting ORALITE® 5710 engineering Grade with the following Lettering Film:					
Black	ORALITE® 5071-070 Lettering Film	NR1	-	pass	pass
Retroreflective sheeting ORALITE® 5710 engineering Grade with the following screen printing colours on white retroreflective sheeting:					
Yellow	ORALITE® 5018-020 Screen Printing ink	CR2	RA1	pass	pass
Red	ORALITE® 5018-030 Screen Printing ink	CR2	RA1	pass	pass
blue	ORALITE® 5018-050 Screen Printing ink	CR2	RA1	pass	pass
Green	ORALITE® 5018-060 Screen Printing ink	CR2	RA1	pass	pass
Black	ORALITE® 5018-070 Screen Printing ink	NR1	-	pass	pass
Retroreflective sheeting ORALITE® 5710 engineering Grade with the following screen printing colours on yellow retroreflective sheeting:					
Red	ORALITE® 5018-030 Screen Printing ink	CR2	RA1	pass	pass
Black	ORALITE® 5018-070 Screen Printing ink	NR1	-	pass	pass
Digital printing colours:					
The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with the transparent laminate ORALITE® 5062-000 Transparent Film.					
Digital Printing Colour ORALITE® 5019 UV Digital Printing Ink					
On white sheeting	ORALITE® 5710-010 Engineering Grade and				
White	ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Grey	ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass

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Version 2016-01-07
Page **21** of **27**

Certificate No.: 2531–CPR–CSC10021

Issue date: 2018-11-21



Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	NR1	-	pass	pass
If the colour black is printed solely, this material combination is admitted to be used without the transparent laminate.					
Black	ORALITE® 5019-070 UV Digital Printing Ink	NR1	-	pass	pass
Digital printing colour ORALITE® 5019i UV Digital Printing Ink					
On white sheeting	ORALITE® 5710-010 Engineering Grade and				
White	ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Yellow	ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Red	ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Blue	ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Green	ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Orange	ORALITE® 5019i-035 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR1	RA1	pass	pass
Brown	ORALITE® 5019i-080 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Black	ORALITE® 5019i-070 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	NR1	-	pass	pass
Clear protective overlay film: Clear protective overlay films (Anti-Graffiti) are always admitted in combination with retroreflective sheeting and a colouring process.					
Anti-Graffiti: The original dyed retroreflective sheeting with the screen-printing ORALITE® 5018 is accepted to be laminated with the clear protective overlay film ORALITE® 5095 Anti-Graffiti Film for the following colours: Original dyed retroreflective sheeting ORALITE® 5710 Engineering Grade with screen-printing ORALITE® 5018					
Red	ORALITE® 5018-030 Screen Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA1	pass	pass
Blue	ORALITE® 5018-050 Screen Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA1	pass	pass
Black	ORALITE® 5018-070 Screen Printing Ink and ORALITE® 5095 Anti-Graffiti Film	NR1	-	pass	pass

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Version 2016-01-07
Page 22 of 27

Certificate No.: 2531–CPR–CSC10021

Issue date: 2018-11-21



ORALITE® 5810 High Intensity Grade:					
Retroreflective sheeting ORALITE® 5810 High Intensity Grade with the following original dyed colours:					
Colour	Name of product	Visibility characteristics		Durability	
		Daylight Chromaticity & luminance factor 4.1.1.3. For black colours: 7.2.2.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.	Resistance to weathering 4.1.1.5. For black colours: 7.2.2.1.4
White	ORALITE® 5810-010 High Intensity Grade	CR2	RA2	pass	pass
Yellow	ORALITE® 5810-020 High Intensity Grade	CR2	RA2	pass	pass
Red	ORALITE® 5810-030 High Intensity Grade	CR2	RA2	pass	pass
Blue	ORALITE® 5810-050 High Intensity Grade	CR2	RA2	pass	pass
Green	ORALITE® 5810-060 High Intensity Grade	CR2	RA2	pass	pass
Brown	ORALITE® 5810-080 High Intensity Grade	CR2	RA2	pass	pass
Retroreflective sheeting ORALITE® 5810 High Intensity Grade with the following Lettering Film:					
Black	ORALITE® 5081-070 Lettering Film	NR1	-	pass	pass
Retroreflective sheeting ORALITE® 5810 High Intensity Grade with the following Coloured Laminates:					
Yellow	ORALITE® 5061-020 Transparent Film	CR2	RA2	pass	pass
Red	ORALITE® 5061-030 Transparent Film	CR2	RA2	pass	pass
Blue	ORALITE® 5061-050 Transparent Film	CR2	RA2	pass	pass
Green	ORALITE® 5061-060 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE® 5061-080 Transparent Film	CR2	RA2	pass	pass
Dark Green	ORALITE® 5061-625 Transparent Film	CR1	RA2	pass	pass
Retroreflective sheeting ORALITE® 5810 High Intensity Grade with the following Screen Printing Colours on white retroreflective sheeting:					
Yellow	ORALITE® 5018-020 Screen Printing Ink	CR2	RA2	pass	pass
Red	ORALITE® 5018-030 Screen Printing Ink	CR2	RA2	pass	pass
Blue	ORALITE® 5018-050 Screen Printing Ink	CR2	RA2	pass	pass
Green	ORALITE® 5018-060 Screen Printing Ink	CR2	RA2	pass	pass
Black	ORALITE® 5018-070 Screen Printing Ink	NR1	-	pass	pass
Retroreflective sheeting ORALITE® 5810 High Intensity Grade with the following Screen Printing Colours on yellow retroreflective sheeting:					
Red	ORALITE® 5018-030 Screen Printing Ink	CR2	RA1	pass	pass
Black	ORALITE® 5018-070 Screen Printing Ink	NR1	-	pass	pass
Digital Printing Colours:					
Digital Printing Colour ORALITE® 5019 UV Digital Printing Ink					
The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with a transparent laminate.					
Digital Printing with protective laminate ORALITE® 5061-000 Transparent Film					
On white sheeting	ORALITE® 5810-010 High Intensity Grade and				
WWhite	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and	CR2	RA2	pass	pass

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Version 2016-01-07
Page **23** of **27**

Certificate No.: 2531–CPR–CSC10021

Issue date: 2018-11-21



	ORALITE® 5061-000 Transparent Film				
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark Green	ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2*	pass	pass
*Coefficient of retroreflection: Value for printed colours 70% of RA2					
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	NR1	-	pass	pass
Digital Printing with protective laminate ORALITE® 5090 Anti-Dew Film:					
On white sheeting	ORALITE® 5810-010 High Intensity Grade and				
White	ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2*	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2*	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Dark Green	ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
*Coefficient of retroreflection: Value for printed colours 70% of RA2					
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	NR1	-	pass	pass
Digital Printing with protective laminate ORALITE® 5095 Anti-Graffiti Film:					
On white sheeting	ORALITE® 5810-010 High Intensity Grade and				
White	ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
*Coefficient of retrorefelction: Value for printed colours 70% of RA2					
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	NR1	-	pass	pass
If the colour Black is printed solely, this material combination is admitted to be used without the transparent laminate					
Black	ORALITE® 5019-070 UV Digital Printing Ink	NR1	-	pass	pass

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Prod. Reg. Nr. 7023

Version 2016-01-07
Page 24 of 27

Certificate No.: 2531–CPR–CSC10021

Issue date: 2018-11-21



Digital Printing Colour ORALITE® 5019i UV Digital Printing Ink: The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with the transparent laminate ORALITE® 5061-000 Transparent Film					
On white sheeting	ORALITE® 5810-010 High Intensity Grade and				
White	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Red	ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Blue	ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Green	ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE® 5019i-080 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark Green	ORALITE® 5019i-625 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Grey	ORALITE® 5019i-073 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Black	ORALITE® 5019i-070 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	NR1	-	pass	pass
Clear overlay film with special function: Clear overlay films with special function (anti-dew and anti-graffiti) are always admitted in combination with a dyed sheeting and a colouring process.					
Anti Dew: The dyed sheeting and the combination with coloured laminates is accepted to be processed with the clear overlay film anti-dew function ORALITE® 5090 Anti-Dew film for the following colours:					
Dyed Retroreflective Sheeting:					
White	ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Yellow	ORALITE® 5810-020 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Red	ORALITE® 5810-030 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Blue	ORALITE® 5810-050 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Coloured Laminate:					
Yellow	ORALITE® 5061-020 Transparent Film and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Red	ORALITE® 5061-030 Transparent Film and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Blue	ORALITE® 5061-050 Transparent Film and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Lettering film:					
Black	ORALITE® 5081-070 Lettering Film and ORALITE® 5090 Anti-Dew film	NR1	-	pass	pass
Anti-Graffiti: The dyed sheeting and the combination with coloured laminates is accepted to be processed with the clear overlay film with anti-graffiti function ORALITE® 5095 Anti Graffiti Film for the following colours.					
Dyed Retroreflective Sheeting:					
White	ORALITE® 5810-010 High Intensity Grade	CR2	RA2	pass	pass

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 **DANAK**
Prod. Reg. Nr. 7023

Version 2016-01-07
Page 25 of 27

Certificate No.: 2531–CPR–CSC10021

Issue date: 2018-11-21



	and ORALITE® 5095 Anti-Graffiti Film				
Yellow	ORALITE® 5810-020 High Intensity Grade and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Red	ORALITE® 5810-030 High Intensity Grade and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Blue	ORALITE® 5810-050 High Intensity Grade and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Coloured Laminate:					
Yellow	ORALITE® 5061-020 Transparent Film and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Red	ORALITE® 5061-030 Transparent Film and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Blue	ORALITE® 5061-050 Transparent Film and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Lettering Film:					
Black	ORALITE® 5081-070 Lettering Film and ORALITE® 5095 Anti-Graffiti Film	NR1	-	pass	pass
External illumination:					
mean illuminance,			NPD		
uniformity of illuminance			NPD		
Corrosion resistance					
Brackets			Minimum S235 Hot dip galvanized to a minimum of 60µm. SP1		
Screws, nuts and washers			M6: f _y ≥ 370 MPa, SP1 or SP2 according to material. M8: f _y ≥ 400 MPa, SP1 or SP2 According to material.		
Aluminum plate			SP1 Laquered 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		

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 **DANAK**
Prod. Reg. Nr. 7023

Version 2016-01-07
Page 26 of 27

Certificate No.: 2531–CPR–CSC10021

Issue date: 2018-11-21



Annex 2

TECHNICAL BASIS

Title	Date
Infra Gropu Danmark ApS Calculation of minor traffic signs (ITC) Shapes and sizes for signs without protection edge mounted on brackets made of presharped rectangular steel bars, 1th Edition.	September 2017
Orafol Retroreflective Sheeting Oralite® 5710 Engineering grade: 0913-CPD-2009/001 Annex	2009-03-17 2018-02-28
Orafol Retroreflective Sheeting Oralite® 5810 High Intensity grade: 0913-CPD-2009/035 Annex	2012-06-27 2018-02-28

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Version 2016-01-07
Page **27** of **27**