

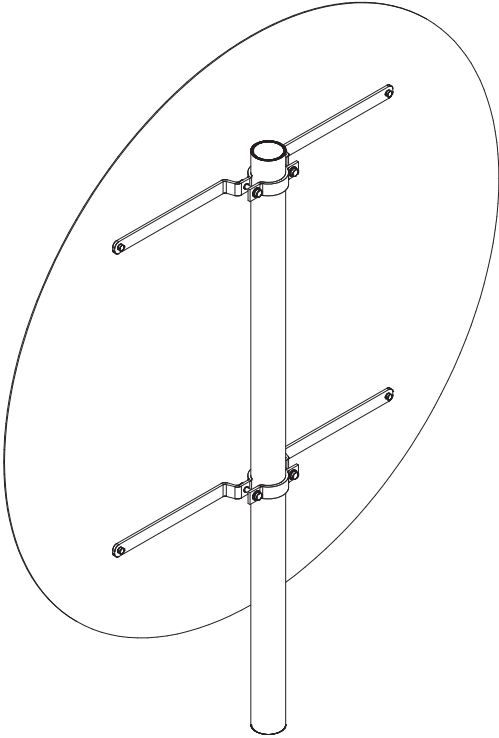
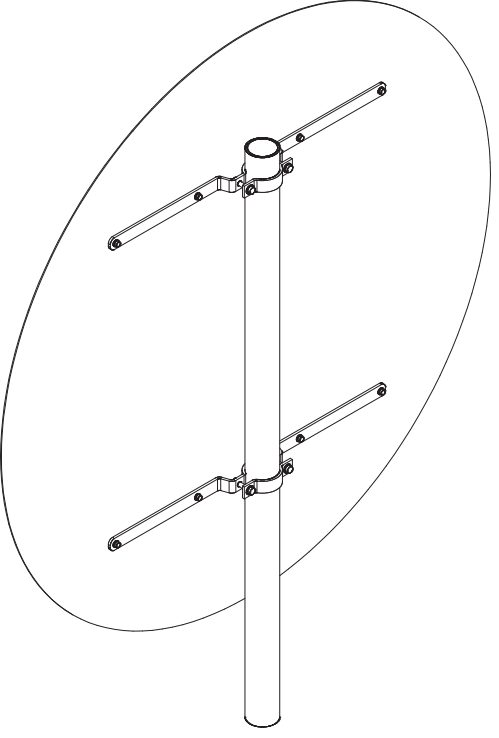
YDEEVNEDEKLARATION nr. IG10021

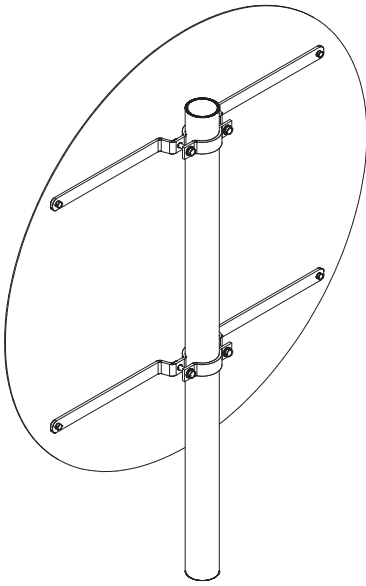
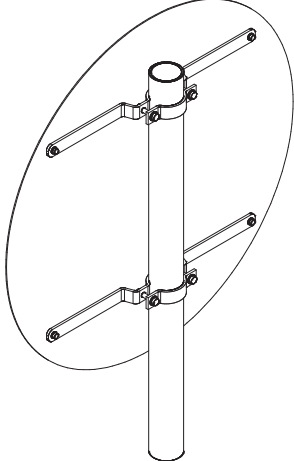
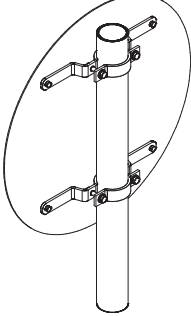
- | | |
|---|--|
| 1. Byggevaretype: | Faste lodrette trafikskilte. |
| 2. Byggevareidentifikation: | Lodret trafikskilt med beslag. |
| 3. Byggevarens tilsigtede anvendelse(r): | Tavle med beslag til montage på lige standere. |
| 4. Fabrikantens navn og adresse: | Infra Group Danmark ApS
Industrivej 17
5750 Ringe |
| 5. Navn og adresse på den bemyndigede repræsentant: | Ikke relevant. |
| 6. Systemerne for vurdering og kontrol af konstansen af byggevarens ydeevne (AVCP): | System 1 |
| 7. Harmoniseret standard & Notificeret Organ: | EN 12899-1 2531 har udført indledende inspektion af fabriksanlæg og fabrikkens egen produktionskontrol samt kontinuerlig overvågning, vurdering og evaluering af fabrikkens egen produktionskontrol efter system 1, og udstedt:

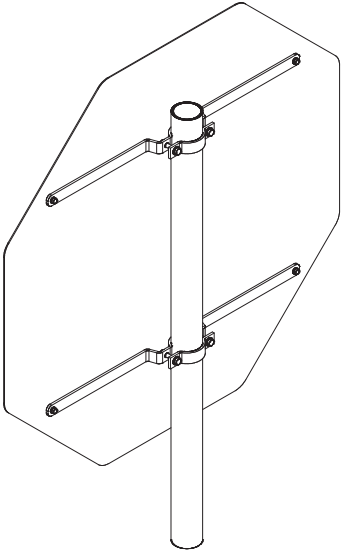
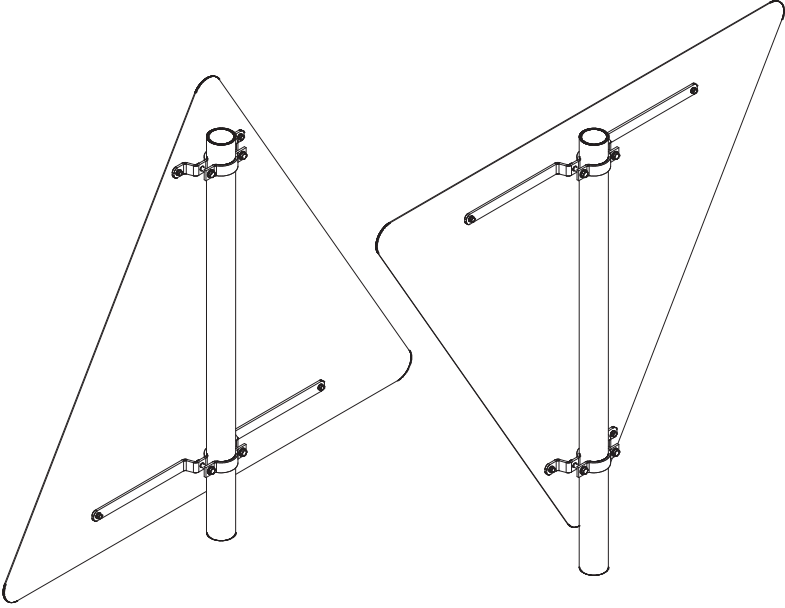
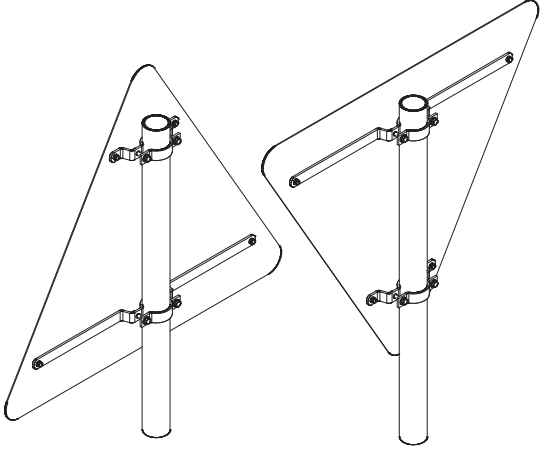
Overensstemmelsesattest for fabrikkens egen produktionskontrol (2531-CPR-CSC10021)
Ydeevnedeklaration i henhold til forordning Nr. (EU) 305/2011 af 9. marts 2011. |

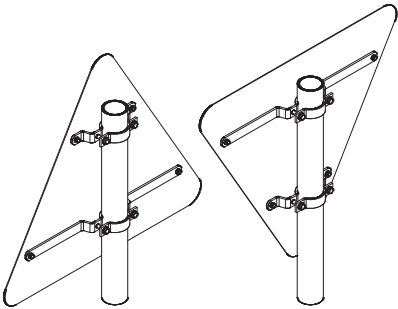
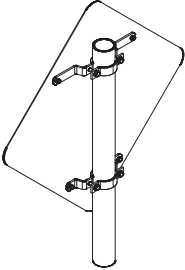
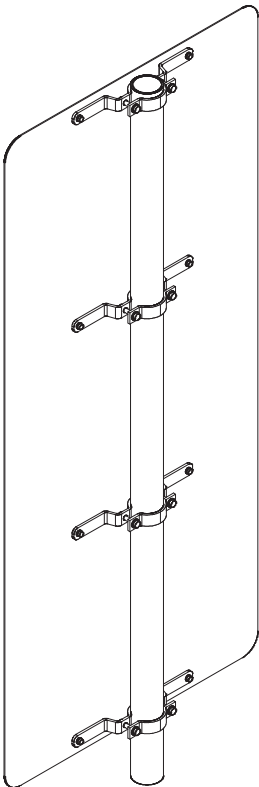
8. Deklareret ydeevne

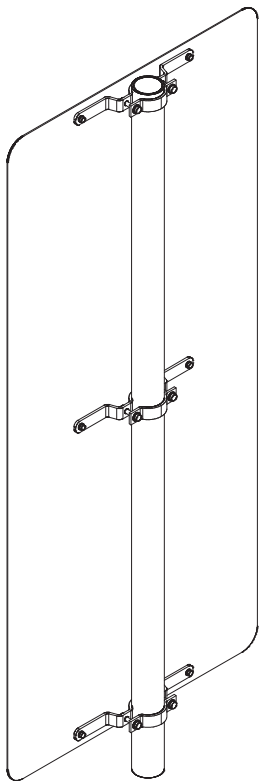
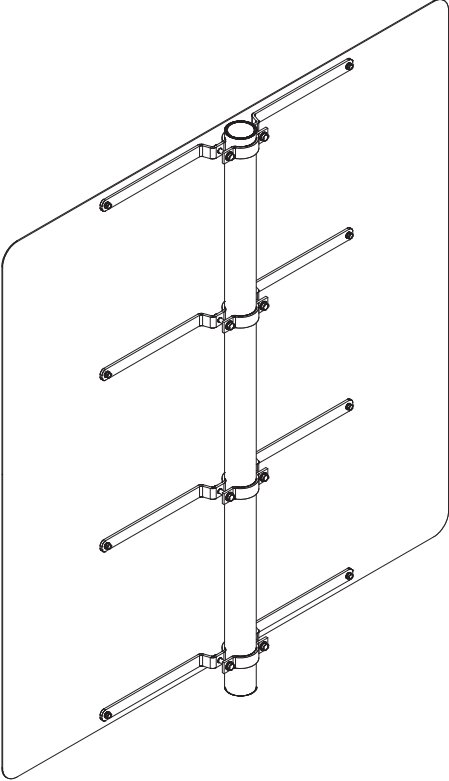
Description and classification:

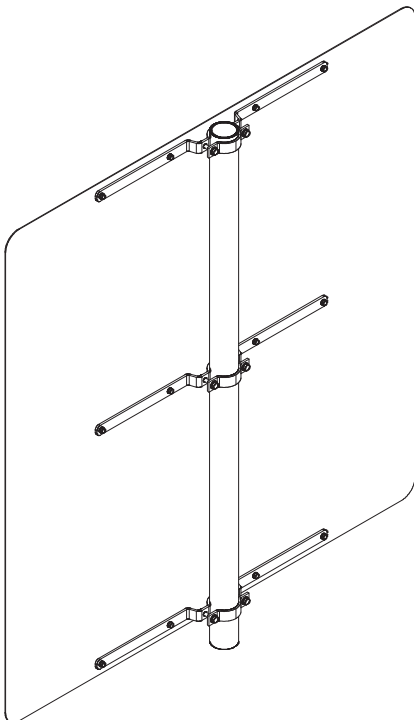
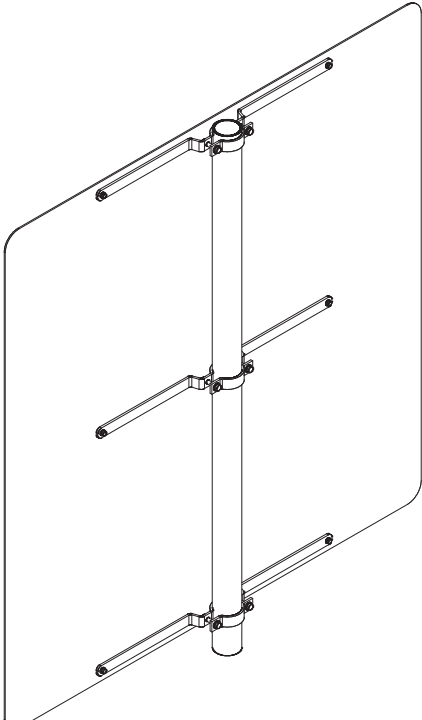
Sign, sizes and mounting system Brackets: Minimum steel quality: S235 Signboard: Minimum aluminium quality: $R_{p0,2} = 180$ MPa Pipe dimension Ø48,3, Ø60,3, Ø76,1 or 88,9 mm Single sided or double sides mounting	Classification according to wind load classes		
	Placed in WL1	Placed in WL2	Placed in WL3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

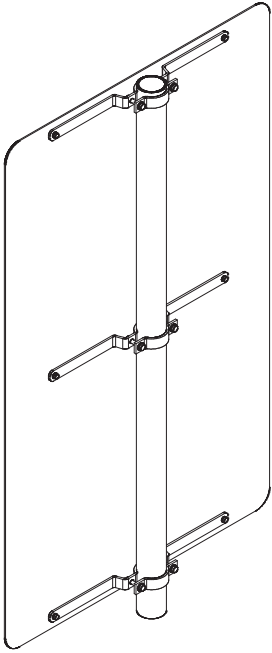
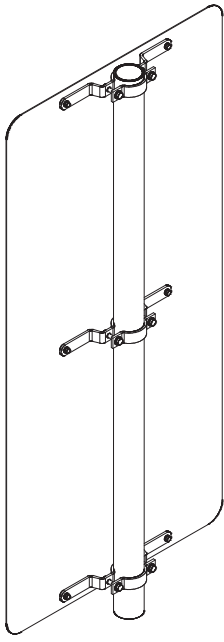
 $d \leq 900 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
 $d \leq 700 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.
 $d \leq 500 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.

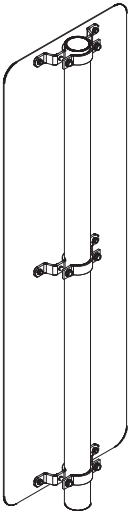
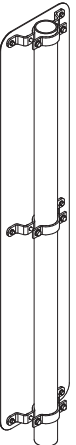
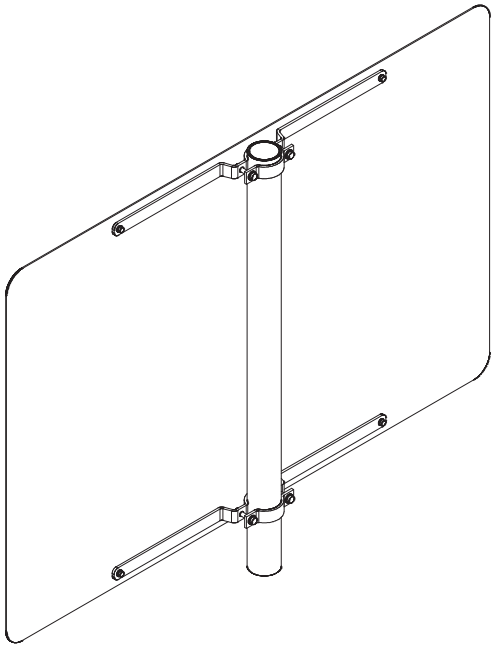
 $h \leq 900 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
 $s = \leq 1250 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
 $s \leq 900 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.

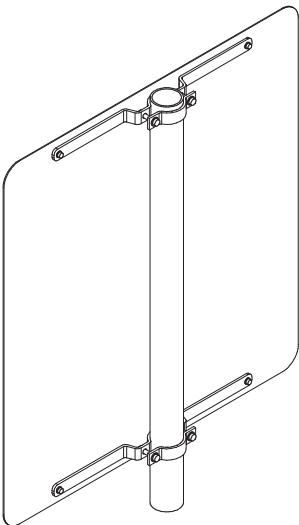
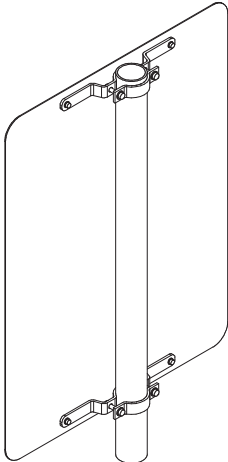
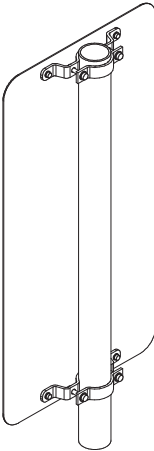
 $S \leq 700 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.
 $a \leq 500 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.
 $h \times b = \leq 1450 \times \leq 650 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.

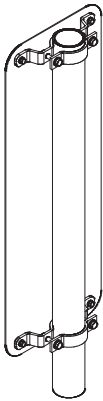
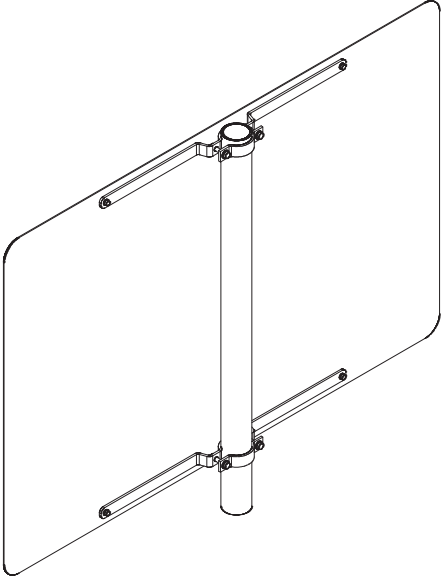
 h x b = ≤ 1450 x ≤ 650 mm, t = 2 mm, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	
 h x b = ≤ 1250 x ≤ 1200 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.	

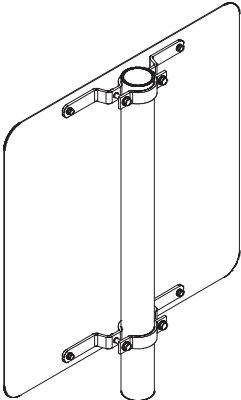
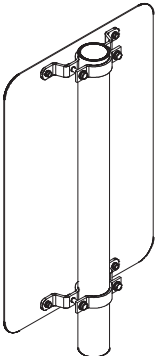
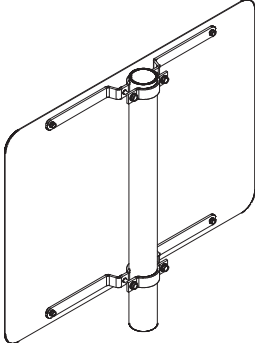
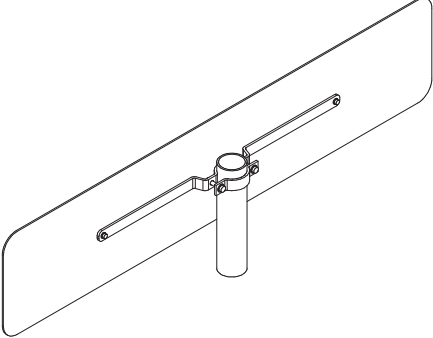
 h x b = ≤ 1250 x ≤ 1200 mm, t = 2 mm, brackets Type 2	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB5, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB6, TDT0, P2, E1 and SP1.	
 h x b = ≤ 1250 x ≤ 1200 mm, t = 2 mm, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB5, 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, TDB6, TDT0, P2, E1 and SP1.	

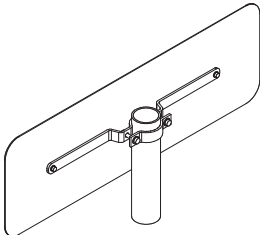
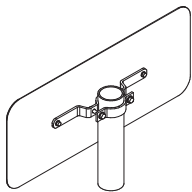
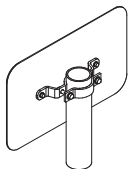
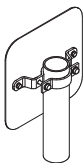
 $h \times b = \leq 1250 \times \leq 750 \text{ mm}$, $t = 2 \text{ mm}$, brackets type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.
 $h \times b = \leq 1250 \times \leq 600 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.

 $h \times b = \leq 1250 \times \leq 400 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
 $h \times b = \leq 1250 \times \leq 250 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.

$h \times b = \leq 800 \times \leq 1200 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$			
	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
$h \times b = \leq 800 \times \leq 750 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$			
	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
$h \times b = \leq 800 \times \leq 600 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$			
	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
$h \times b = \leq 800 \times \leq 400 \text{ mm}, t = 2 \text{ mm}, \text{brackets Type 1}$			

 $h \times b = \leq 800 \times \leq 250 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
 $h \times b = \leq 700 \times \leq 250 \text{ mm}$, $t = 2 \text{ mm}$, brackets Type 1	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E1 and SP1.
 $h \times b = \leq 650 \times \leq 1200 \text{ mm}$, $t = 2 \text{ mm}$, 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.

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

 $h \times b = \leq 250 \times \leq 750 \text{ mm}, t = 2 \text{ mm}, \text{ bracket Type 1}$	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB3, TDT0, P2, E1 and SP1.
 $h \times b = \leq 250 \times \leq 600 \text{ mm}, t = 2 \text{ mm}, \text{ bracket Type 1}$	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.
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 $h \times b = \leq 250 \times \leq 250 \text{ mm}, t = 2 \text{ mm}, \text{ bracket Type 1}$	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, 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.

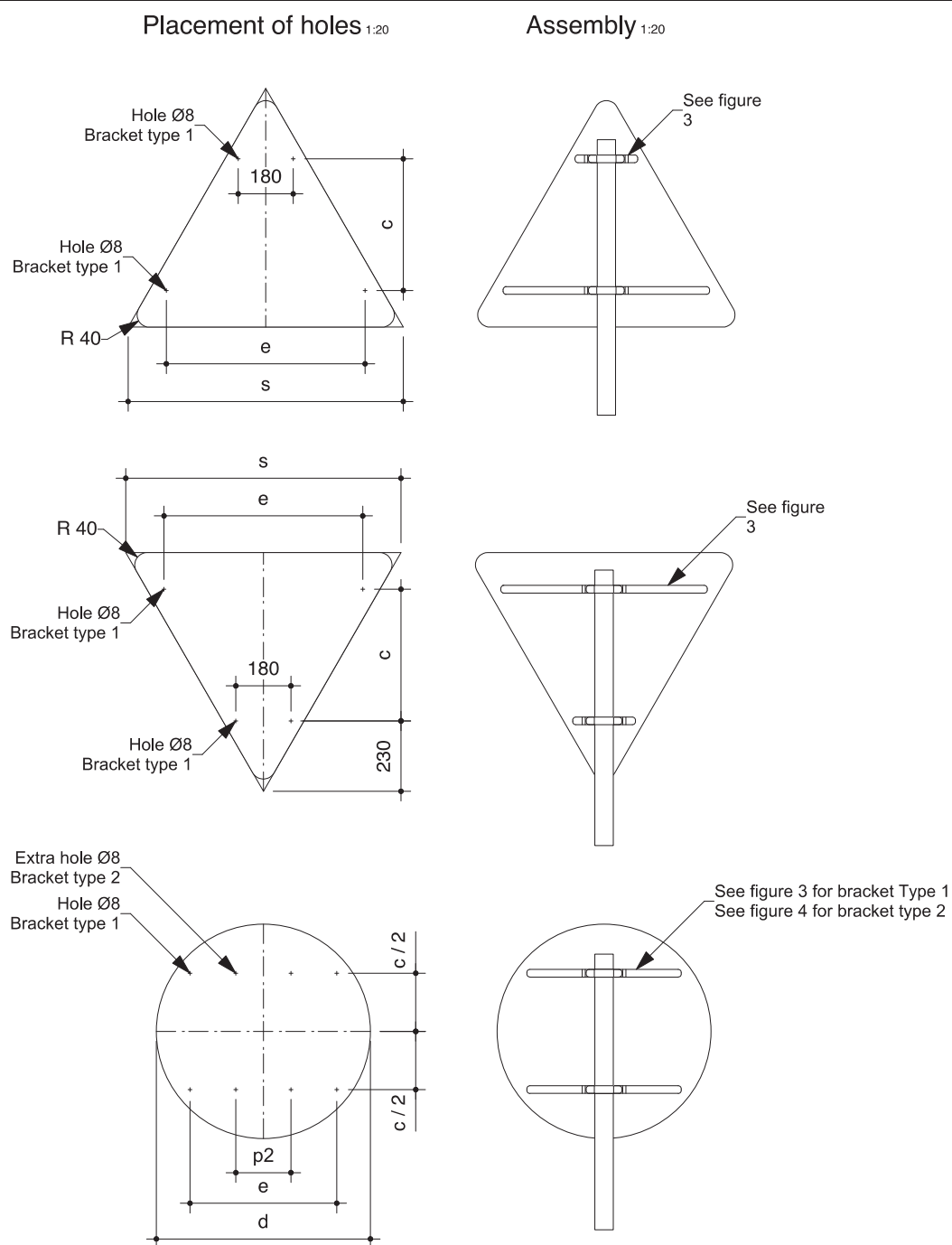


Figure 1: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 6 and Figure 6.

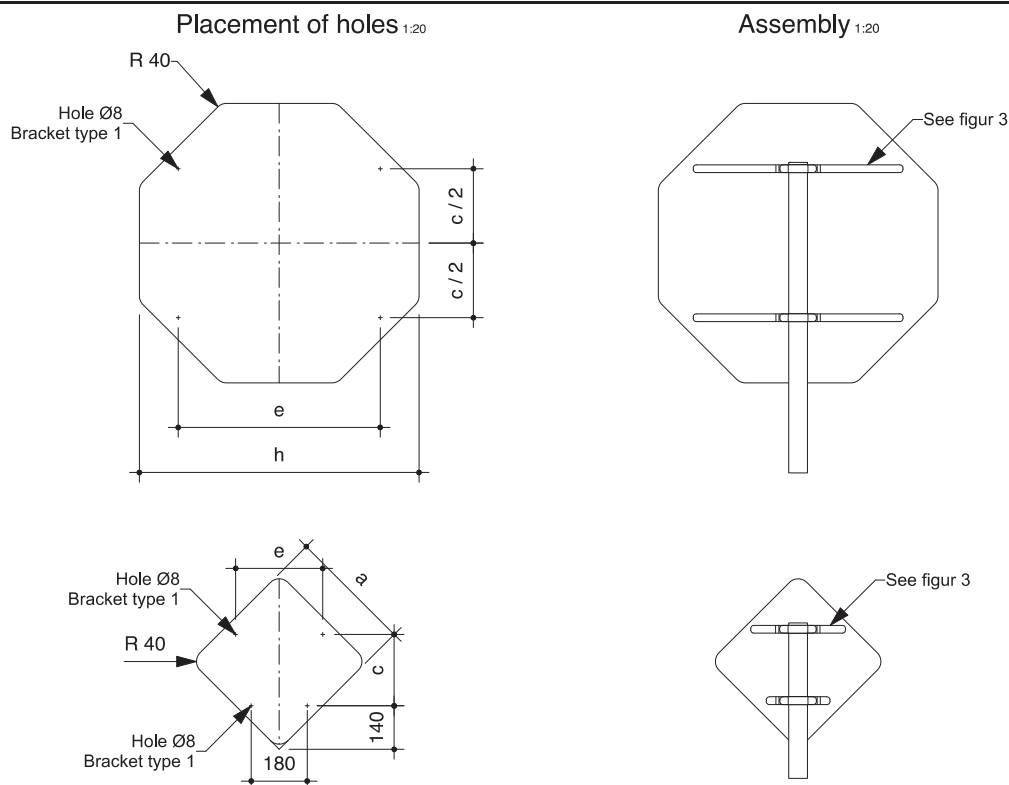


Figure 2: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 5 and Figure 6.

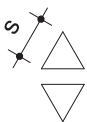
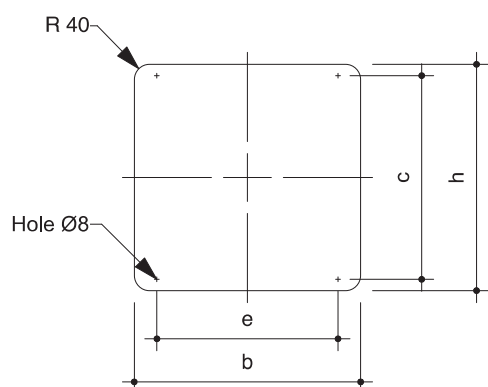
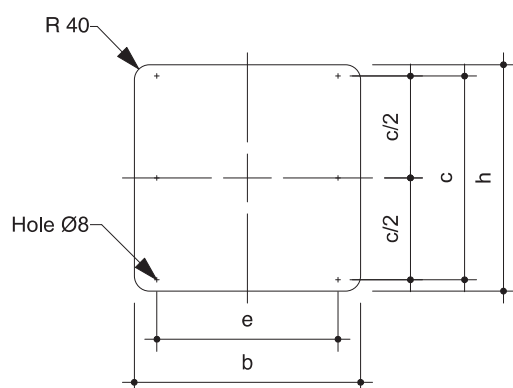
Shape	Size	Variable measures		Minimum numbers of brackets			
		c	e	e = 180	e = 280	e = 480	e = 650
	s = 700	255	480	1		1	
	s = 900	430	650	1			1
	s = 1250	750	650	1			1
	d = 500	290	280		2		
	d = 700	390	480			2	
	d = 900	480	650				2
	d = 1200	640	650				2
	h = 900	490	650				
	a = 500	370	280	1	1		

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.

Bracket Type 1 Two brackets



Bracket Type 1 Three brackets



Bracket Type 1 Four brackets

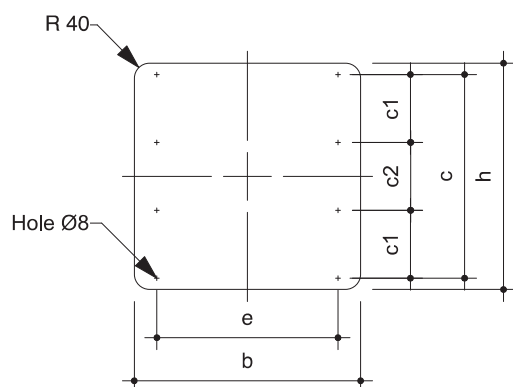


Figure 3: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 5 and Figure 6.

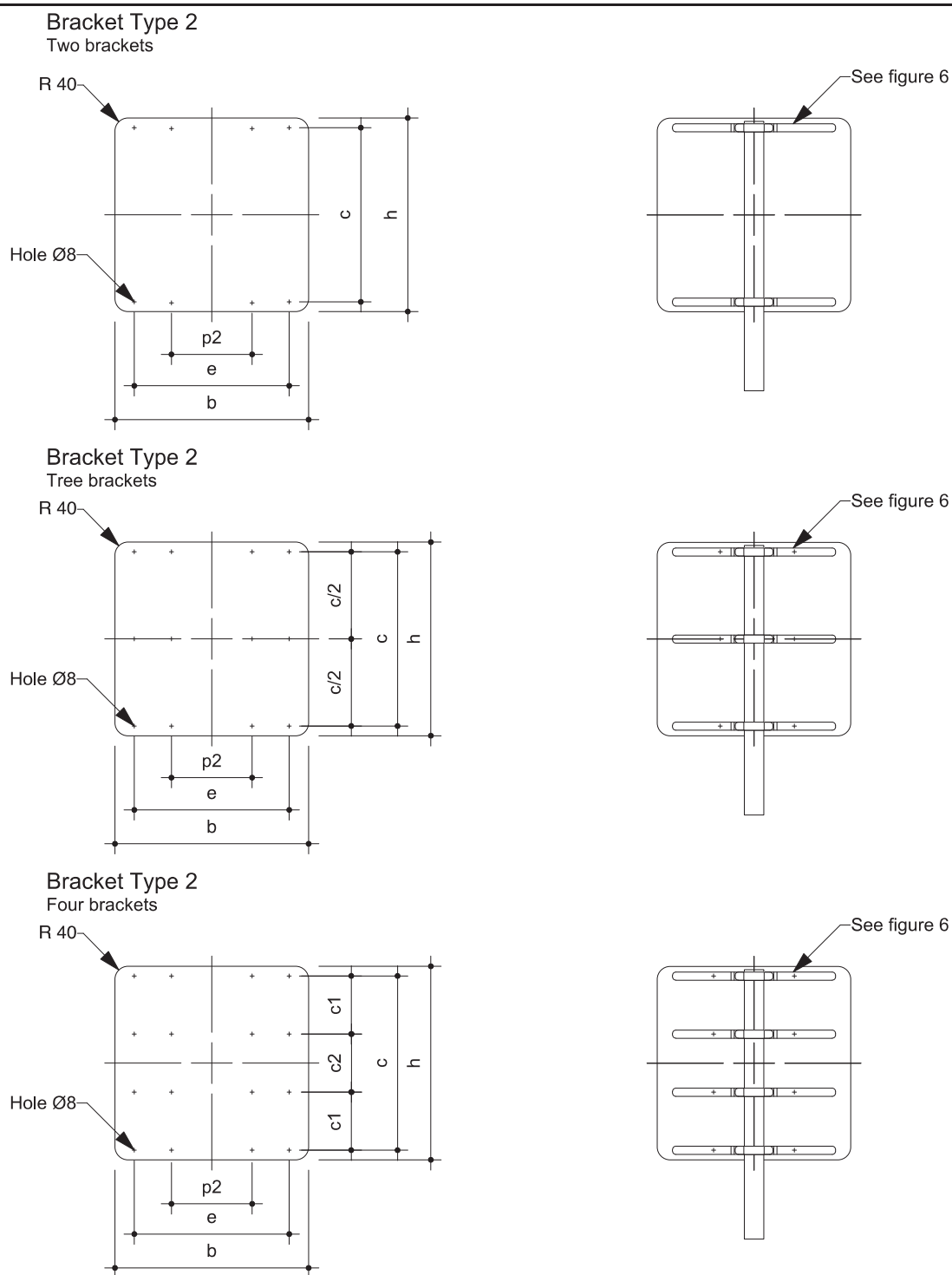
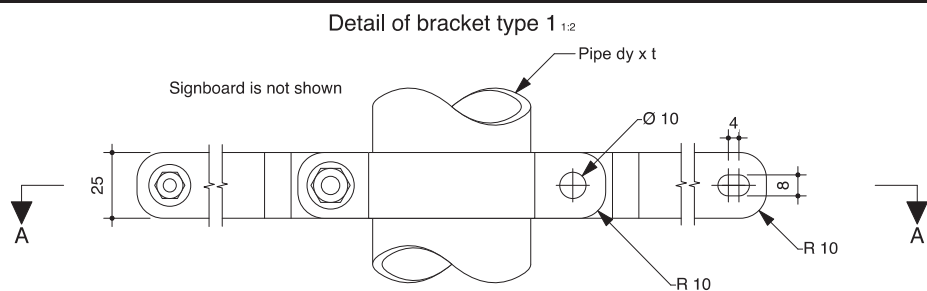


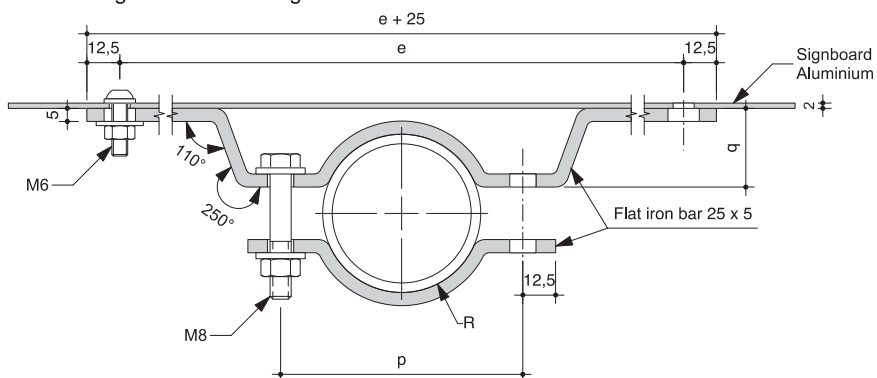
Figure 4: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 2. Details for the brackets are shown in Figure 5 and Figure 6.

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

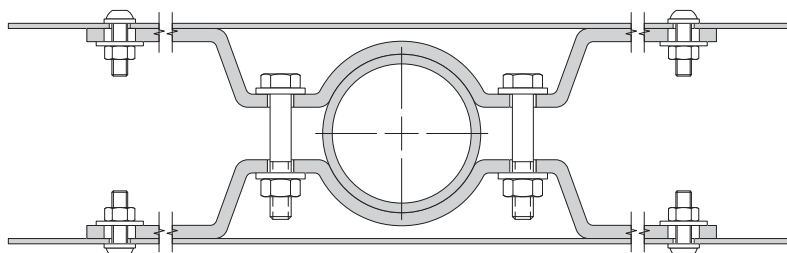
Table 2: Variable measures of the different sign types and their numbers of brackets to be used for the sign plates shown in Figure 3 and Figure 4.



Section A-A Single sided mounting^{1,2}

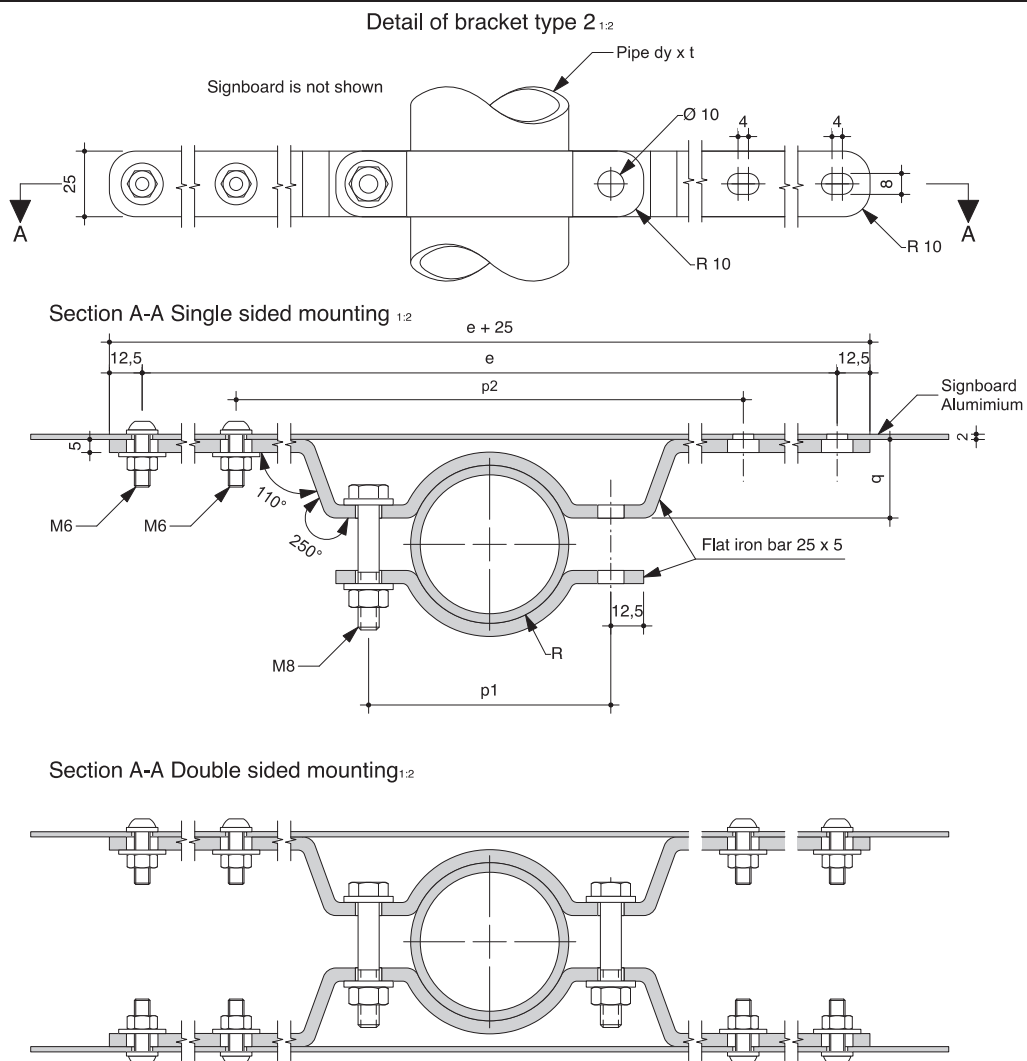


Section A-A Double sided mounting^{1,2}



$dy \times t$	R	p	q
48,3 x t	25	79	24
60,3 x t	31	92	30
76,1 x t	39	108	38
88,9 x t	45	122	44

Figure 5: Brackets Type 1.



dy x t	R	p1	p2	q
48,3 x t	25	79	238	24
60,3 x t	31	92	250	30
76,1 x t	39	108	266	38
88,9 x t	45	122	279	44

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

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
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Retroreflective sheeting ORALITE® 5710 engineering Grade with the following screen printing colours:

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

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
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

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
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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:

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

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				
White	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 ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
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
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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
Braun	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

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 and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
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: $f_y \geq 370$ MPa, SP1 or SP2 according to material. M8: $f_y \geq 400$ MPa, SP1 or SP2 According to material.
Aluminium 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

9. Ydeevnen for den byggevare, der er anført i punkt 1 og 2, er i overensstemmelse med den deklarerede ydeevne i punkt 8. Denne ydeevnedeklaration udstedes på eneansvar af den fabrikant, der er anført i punkt 4.

Underskrevet for og på vegne af fabrikanten:



Christian Daluiso, Adm. Direktør

Odense d. 18. april 2018