Issue date: 2018-11-21



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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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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Annex 1

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

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

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\sim			
	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 ≤ 900 mm, t = 2 mm, brackets Type 1			
$s = \le 1250 \text{ mm}, t = 2 \text{ mm}, \text{ brackets Type 1}$	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.
o 22250 mm/y c 2 mm/y stateles 1776 2	7.		
	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 900 mm, t = 2 mm, brackets Type 1			

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

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

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

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

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	1	1	,
$h \times b = \le 1250 \times \le 400 \text{ mm}, t = 2 \text{ mm}, \text{ brackets Type 1}$	Signboard	Signboard	Signboard
	and	and	and
	brackets:	brackets:	brackets:
	PAF1, WL1,	PAF1, WL2,	PAF1, WL3,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB3, TDT0,	TDB3, TDT0,	TDB4,
	P2, E1 and	P2, E1 and	TDT0, P2,
	SP1.	SP1.	E1 and SP1.
$h \times b = \le 1250 \times \le 250 \text{ mm, } t = 2 \text{ mm, brackets Type 1}$	Signboard	Signboard	Signboard
	and	and	and
	brackets:	brackets:	brackets:
	PAF1, WL1,	PAF1, WL2,	PAF1, WL3,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB3, TDT0,	TDB3, TDT0,	TDB4,
	P2, E1 and	P2, E1 and	TDT0, P2,
	SP1.	SP1.	E1 and SP1.
$h \times b = \le 800 \times \le 1200 \text{ mm, } t = 2 \text{ mm, brackets Type 1}$	Signboard	Signboard	Signboard
	and	and	and
	brackets:	brackets:	brackets:
	PAF1, WL1,	PAF1, WL2,	PAF1, WL3,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB4, TDT0,	TDB4, TDT0,	TDB4,
	P2, E1 and	P2, E1 and	TDT0, P2,
	SP1.	SP1.	E1 and SP1.

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

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	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 x b = ≤ 800 x ≤ 250 mm, t = 2 mm, brackets Type 1 h x b = ≤ 700 x ≤ 250 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.
$h \times b = \le 650 \times \le 1200 \text{ mm}, t = 2 \text{ mm, brackets Type 1}$	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.

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

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$h \times b = \le 250 \times \le 750 \text{ mm, } t = 2 \text{ mm, bracket Type } 1$	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.
$h \times b = \le 250 \times \le 600 \text{ mm}, t = 2 \text{ mm}, \text{ bracket Type 1}$	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.
$h \times b = \le 250 \times \le 400 \text{ mm}, t = 2 \text{ mm}, \text{ bracket Type 1}$	Signboard and brackets: PAF1, WL1, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL2, DSL0, PL0, TDB1, TDT0, P2, E1 and SP1.	Signboard and brackets: PAF1, WL3, DSL0, PL0, TDB2, TDT0, P2, E1 and SP1.
$h \times b = \le 250 \times \le 250 \text{ mm, t} = 2 \text{ mm, bracket Type 1}$	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.

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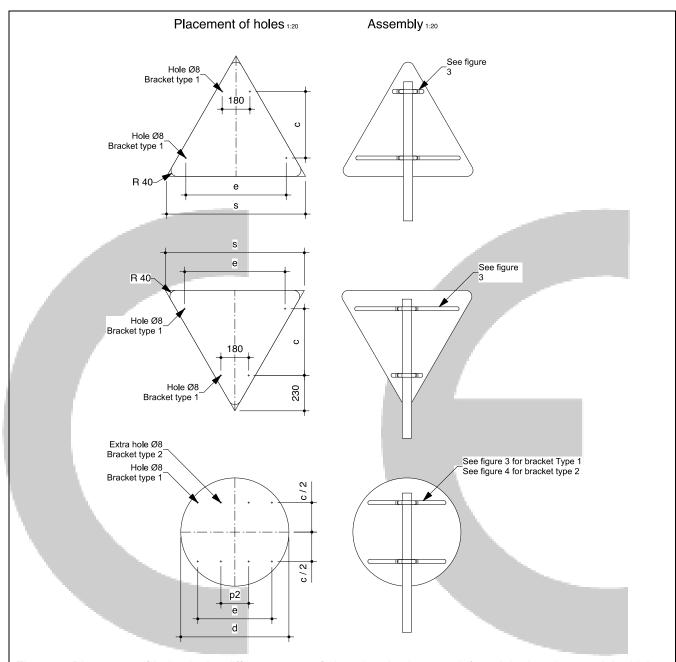


Figure 1: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 6.

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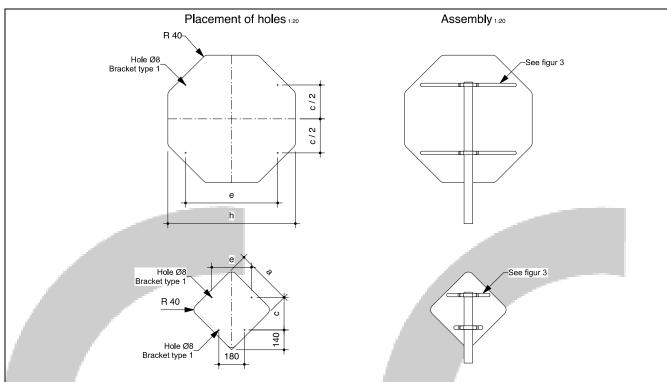


Figure 2: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 5 and Figure 6.

Shape	Size	Variable r	neasures	Minin	num numb	ers of bra	ckets
6×		С	е	e = 180	e = 280	e = 480	e = 650
$ \times \triangle$	s = 700	255	480	1		1	
	s = 900	430	650	1			1
V	s = 1250	750	650	1			1
h	d = 500	290	280		2		
٥	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.

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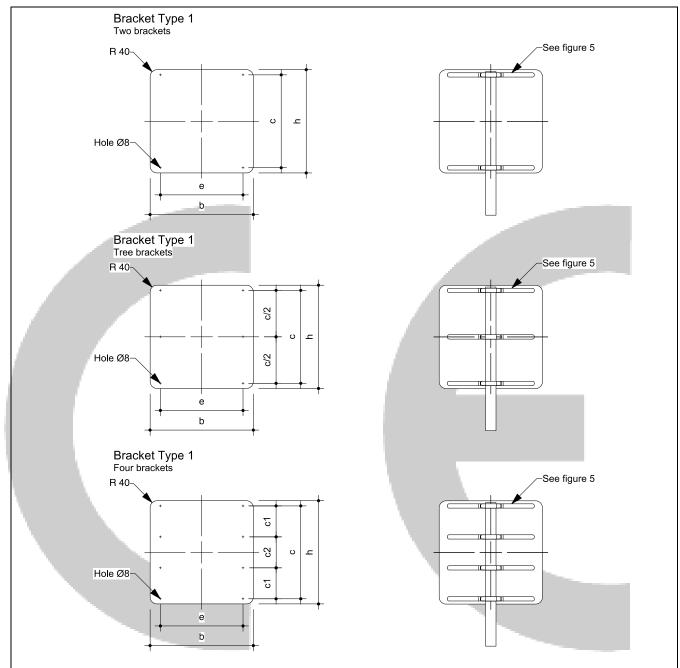


Figure 3: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 1. Details for the brackets are shown in Figure 5 and Figure 6.

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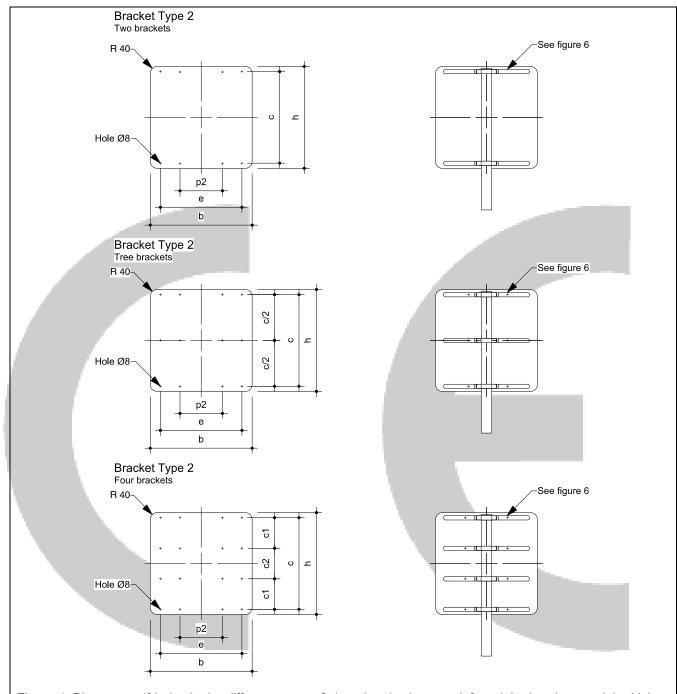


Figure 4: Placement of holes in the different types of sign plate is shown at left and the brackets at right. Values for the variable measures are given in Table 2. Details for the brackets are shown in Figure 5 and Figure 6.

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							Minimum numbers of
	h	b	С	c1	c2	е	brackets
Γ	1450	650	1389	463	463	280	4
Ī	1450	650	1390	-	-	280	3
ſ	1250	1200	1190	395	400	650	4
	1250	1200	1190	-	ı	650	3
	1250	750	1190	-	-	480	3
	1250	600	1190	-	ı	280	3
	1250	400	1190	-	-	180	3
	1250	250	1190	-	-	180	3
L	800	1200	740	-	-	650	2
	800	750	740	-	-	480	2
L	800	600	740	-	-	280	2
L	800	400	740	-	ı	180	2
L	800	250	740	-	ı	180	2
L	700	250	640	-	-	180	2
L	650	1200	590	-	-	650	2
L	600	600	540	-	-	280	2
4	600	400	540	-	-	180	2
	550	750	490	-	-	480	2
	250	1200	-	-	-	650	1
	250	750	-	-	ļ	480	1
	250	600	-	-	ļ	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.



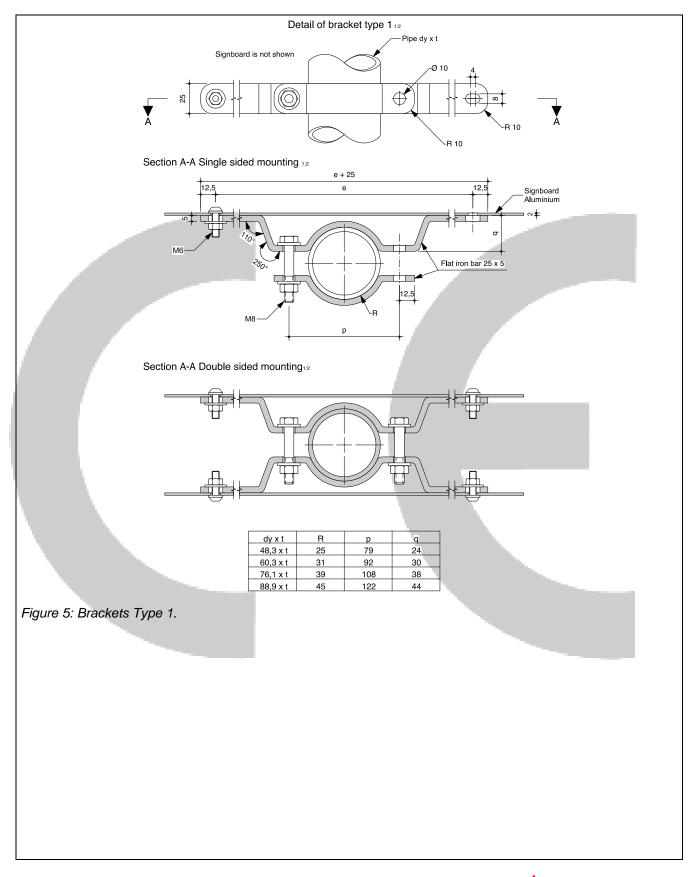


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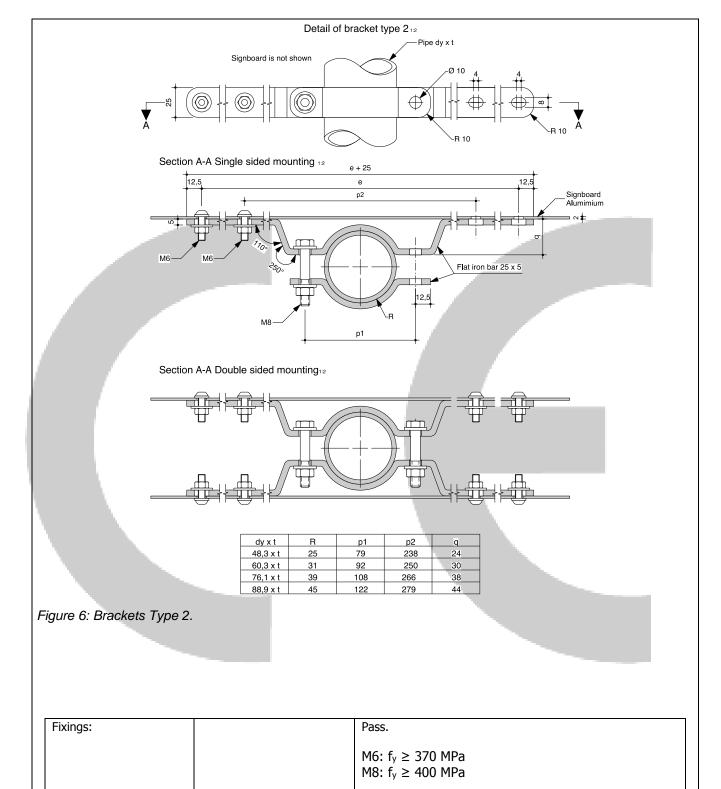
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Pressure force for tightening:

M6: 5 kN M8: 2 kN

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	ective sheeting OKALITE 371	0 Engineering (Grade with the	following origi	inal dyed co	lours:
<u>- </u>	<u>-</u>					
Colour	Name of product		Visibility chara		Durability	
			Daylight	Coefficient of	Impact	Resistance
			Chromaticity	retroreflection	resistance	to
			& luminance	4.1.1.4	4.1.2.	weathering
			factor			4.1.1.5.
			4.1.1.3.			For black
			For black			colours:
			colours:			7.2.2.1.4
			7.2.2.1.3			/.2.2.1.1
White	ORALITE© 5710-010 Engineering	Crado	CR2	RA1	nacc	nacc
Yellow					pass	pass
	ORALITE® 5710-020 Engineering		CR2	RA1	pass	pass
Red	ORALITE© 5710-030 Engineering		CR2	RA1	pass	pass
3lue	ORALITE© 5710-050 Engineering		CR2	RA1	pass	pass
Green	ORALITE© 5710-060 Engineering		CR2	RA1	pass	pass
Orange 📓	ORALITE© 5710-035 Engineering		CR1	RA1	pass	pass
Brown	ORALITE© 5710-080 Engineering	Grade	CR2	RA1	pass	pass
Retroref	lective sheeting ORALITE© 571	0 engineering (Grade with the	following Lette	ering Film:	
Black	ORALITE© 5071-070 Lettering Fi	lm	NR1	-	pass	pass
Diacit	OTTILL SOFT OF Lettering IT		IVIVE		pass	pass
olue Green	ORALITE© 5018-050 Screen Prin ORALITE© 5018-060 Screen Prin	ting ink	CR2 CR2	RA1 RA1	pass pass	pass pass
		tina ink	NR1	-	pass	pass
Black	ORALITE [©] 5018-070 Screen Prin	ang mix				
Black				6.11.		<u>'</u>
Black Retroref	lective sheeting ORALITE® 571			following scre	en printing	'
Black Retroref				following scre	en printing	'
Black Retroreflyellow re	lective sheeting ORALITE® 571 etroreflective sheeting:	0 engineering (Grade with the			colours on
Black Retrorefi rellow re	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Prin	O engineering (Grade with the	following scre	pass	colours on
Black Retrorefi rellow re	lective sheeting ORALITE® 571 etroreflective sheeting:	O engineering (Grade with the			colours on
Retrorefl yellow re Red Black	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Prin	O engineering (Grade with the		pass	colours on
Retrorefl yellow re Red Black	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Prin ORALITE® 5018-070 Screen Prin	O engineering (ting ink ting ink	Grade with the CR2 NR1	RA1	pass pass	pass pass
Retroreflyellow re Red Black Digital p	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Prin ORALITE® 5018-070 Screen Prin rinting colours: Il printing is processed on white ret	O engineering (ting ink ting ink roreflective sheet	CR2 NR1	RA1 - tal printing system	pass pass	pass pass
Retroreff yellow re Red Black Digital p The digital High-Spee	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Prin ORALITE® 5018-070 Screen Prin rinting colours:	O engineering (ting ink ting ink roreflective sheet	CR2 NR1	RA1 - tal printing system	pass pass	pass pass
Retroreflyellow re Red Black Digital p The digital High-Spee	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printon ORALITE® 5018-070 Screen Printon Colours: I printing colours: I printing is processed on white reted-UV-Inkjet-System and is to be labed 5062-000 Transparent Film.	O engineering (ting ink ting ink roreflective sheet	CR2 NR1	RA1 - tal printing system	pass pass	pass pass
Retroreflyellow re Red Black Digital p The digita High-Spee ORALITE® Digital P	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printon ORALITE® 5018-070 Screen Printon ORALITE® 5019	O engineering (ting ink ting ink roreflective sheet minated with the	CR2 NR1	RA1 - tal printing system	pass pass	pass pass
Retroreflyellow re Red Black Digital p The digital High-Spee ORALITE® Digital P On white	DRALITE® 5018-030 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5019-070 Screen Print	O engineering (ting ink ting ink roreflective sheet minated with the	CR2 NR1	RA1 - tal printing system	pass pass	pass pass
Retroreflyellow re Red Black Digital p The digital High-Spee DRALITE® Digital P On white Sheeting	Dective sheeting ORALITE® 571 Detroreflective sheeting: ORALITE® 5018-030 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5018-070 Screen Print ORALITE® 5710-010 Engineering and	O engineering (ting ink ting ink roreflective sheet minated with the UV Digital Print Grade	CR2 NR1 ing with the digitatransparent lam	RA1 - tal printing syster inate	pass pass m AGFA ANAI	pass pass PURNA M205
Retroreflyellow revealed Black Digital p The digital High-Speed DRALITE Digital P On white sheeting White	Dective sheeting ORALITE® 571 Detroreflective sheeting: ORALITE® 5018-030 Screen Print ORALITE® 5018-070 Screen Print rinting colours: Ill printing is processed on white reted-UV-Inkjet-System and is to be law 5062-000 Transparent Film. rinting Colour ORALITE® 5019 ORALITE® 5710-010 Engineering and ORALITE® 5062-000 Transparent	O engineering (ting ink ting ink roreflective sheet minated with the UV Digital Print Grade t Film	CR2 NR1 ing with the digit transparent lam ting Ink CR2	RA1 - tal printing system	pass pass	pass pass
Retrorefly yellow revealed Black Digital p The digital High-Speed DRALITE Digital P On white sheeting White	Dective sheeting ORALITE® 571 Detroreflective sheeting: ORALITE® 5018-030 Screen Printo ORALITE® 5018-070 ORALITE® 5019-070 Engineering and ORALITE® 5062-000 Transparento ORALITE® 5019-070 UV Digital Formula Digital Formula ORALITE® 5019-070 UV Digital Formula Digital Formula Digital Form	ting ink ting ink troreflective sheet minated with the UV Digital Print Grade t Film Printing Ink and	CR2 NR1 ing with the digitatransparent lam	RA1 - tal printing syster inate	pass pass m AGFA ANAI	pass pass PURNA M205
Retroreflyellow reconstructions Red Black Digital properties Digital P	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Prin ORALITE® 5018-070 Screen Prin rinting colours: Il printing is processed on white reted-UV-Inkjet-System and is to be law 5062-000 Transparent Film. rinting Colour ORALITE® 5019 ORALITE® 5710-010 Engineering and ORALITE® 5062-000 Transparen ORALITE® 5019-020 UV Digital FORALITE® 5062-000 Transparen	ting ink ting ink troreflective sheet minated with the UV Digital Print of Grade t Film trinting Ink and t Film	CR2 NR1 ing with the digit transparent lam ting Ink CR2	RA1 - tal printing systeminate	pass pass m AGFA ANAI	pass pass PURNA M205
Retroreflyellow revellow revel	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printon ORALITE® 5018-070 ORALITE® 5019-070 OVALITE® 5019-070 OVALITE	ting ink ting ink troreflective sheet minated with the UV Digital Print g Grade t Film Printing Ink and t Film Printing Ink and	CR2 NR1 ing with the digit transparent lam ting Ink CR2	RA1 - tal printing systeminate	pass pass m AGFA ANAI	pass pass PURNA M205
Retroreflyellow reconstructions Red Black Digital particular properties of the digital particular properties of the particular prop	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printoreflective Sole-070 Screen Printoreflective S	ting ink ting ink troreflective sheet minated with the UV Digital Print Grade t Film Printing Ink and t Film Printing Ink and t Film	CR2 NR1 ing with the digitatransparent lam ting Ink CR2 CR2	RA1 - tal printing systeminate RA1 RA1	pass pass m AGFA ANAF	pass pass PURNA M205 pass pass
Retroreflyellow related Plack Digital properties of the digital Properties of the p	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printoreflective Sole-070 Screen Printoreflective S	ting ink ting ink troreflective sheet minated with the UV Digital Print Grade t Film Printing Ink and t Film Printing Ink and t Film Printing Ink and	CR2 NR1 ing with the digitatransparent lam ting Ink CR2 CR2 CR2 CR2	RA1	pass pass m AGFA ANAI pass pass pass	pass pass PURNA M205 pass pass pass pass
Retroreflyellow reconstructions Red Black Digital particular properties of the digital particular properties of the particular prop	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printon ORALITE® 5018-070 ORALITE® 5019-070 OV Digital FORALITE® 5019-070 OV DIGITALITE® 5019-070 OV DIGITALITE	ting ink ting ink troreflective sheet minated with the UV Digital Print Grade t Film Printing Ink and	CR2 NR1 ing with the digitatransparent lam ting Ink CR2 CR2	RA1 - tal printing systeminate RA1 RA1	pass pass m AGFA ANAF	pass pass PURNA M205 pass pass
Retroreflyellow received by the digital possible by the digital possible by the digital possible by the digital possible by the by the digital possible by the digital possibl	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printon ORALITE® 5018-070 ORALITE® 5019-070 ORALITE® 5710-010 Engineering and ORALITE® 5062-000 Transparenton ORALITE® 5062-000 Transparenton ORALITE® 5019-030 UV Digital FORALITE® 5062-000 Transparenton ORALITE® 5019-050 UV Digital FORALITE® 5019-050 UV Digital FORALITE® 5062-000 Transparenton ORALITE® 5019-060 UV Digital FORALITE® 5019-060 UV Di	ting ink ting ink troreflective sheet minated with the UV Digital Print Grade t Film Printing Ink and	CR2 NR1 Ing with the digitations are the control of the control o	RA1	pass pass m AGFA ANAI pass pass pass pass pass pass	pass pass pass pass pass pass pass pass
Retroreflyellow received by the digital possible by the digital possible by the digital possible by the digital possible by the by the digital possible by the digital possibl	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printoreflective Sols-070 Screen Printoreflective S	ting ink ting ink troreflective sheet minated with the UV Digital Print Grade t Film Printing Ink and	CR2 NR1 ing with the digitatransparent lam ting Ink CR2 CR2 CR2 CR2	RA1	pass pass m AGFA ANAI pass pass pass	pass pass PURNA M205 pass pass pass pass
Retroreflyellow reconstruction Red Black Digital particular parti	lective sheeting ORALITE® 571 etroreflective sheeting: ORALITE® 5018-030 Screen Printon ORALITE® 5018-070 ORALITE® 5019-070 ORALITE® 5710-010 Engineering and ORALITE® 5062-000 Transparenton ORALITE® 5062-000 Transparenton ORALITE® 5019-030 UV Digital FORALITE® 5062-000 Transparenton ORALITE® 5019-050 UV Digital FORALITE® 5019-050 UV Digital FORALITE® 5062-000 Transparenton ORALITE® 5019-060 UV Digital FORALITE® 5019-060 UV Di	ting ink ting ink troreflective sheet minated with the UV Digital Print Grade t Film Printing Ink and	CR2 NR1 Ing with the digitations are the control of the control o	RA1	pass pass m AGFA ANAI pass pass pass pass pass pass	pass pass pass pass pass pass pass pass

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Black	ORALITE [©] 5019-070 UV Digital Printing Ink and ORALITE [©] 5062-000 Transparent Film	NR1	-	pass	pass
If the colo	ur black is printed solely, this material combination is	s admitted to be	used without th	ne transparent	laminate.
Black	ORALITE© 5019-070 UV Digital Printing Ink	NR1	-	pass	pass
Digital pr	inting colour ORALITE® 5019i UV Digital Print	ing Ink			
On white	ORALITE© 5710-010 Engineering Grade				
sheeting	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 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-Graffitti Film for the following colours:

Original dy	ed retroreflective sheeting ORALITE [©] 5710 Engineri	ing Grade with s	creen-printing O	RALITE [©] 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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		y Grade With t	ile iollowing of	iginal dyed	colours:
Colour	Name of product	Visibility chara	ctorictics	Durability	
Coloui	Name of product	Daylight	Coefficient of	Impact	Resistance
		Chromaticity	retroreflection	resistance	
					to
		& luminance	4.1.1.4	4.1.2.	weathering
		factor 4.1.1.3.			4.1.1.5.
					For black
		For black			colours:
		colours:			7.2.2.1.4
White	ORALITE [©] 5810-010 High Intensity Grade	7.2.2.1.3 CR2	RA2	nacc	2200
Yellow	ORALITE® 5810-010 High Intensity Grade	CR2	RA2	pass pass	pass
Red	ORALITE® 5810-030 High Intensity Grade	CR2	RA2		pass
Blue	ORALITE® 5810-050 High Intensity Grade	CR2	RA2	pass	pass
Green	ORALITE® 5810-050 High Intensity Grade	CR2	RA2	pass pass	pass
Brown _	ORALITE® 5810-080 High Intensity Grade	CR2	RA2	pass	pass
DIOWII	ORALITE 3010 000 High Intensity Grade	CICE	IVAZ	разз	pass
	lective sheeting ORALITE® 5810 High Intensit		he following Le	ettering Film	1:
Black	ORALITE© 5081-070 Lettering Film	NR1		pass	pass
	lective sheeting ORALITE® 5810 High Intensit				
<u>Yellow</u> Red	ORALITE® 5061-020 Transparent Film	CR2 CR2	RA2 RA2	pass	pass
	ORALITE® 5061-030 Transparent Film	CR2		pass	pass
Blue	ORALITE® 5061-050 Transparent Film		RA2	pass	pass
Green	ORALITE® 5061-060 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE [©] 5061-080 Transparent Film ORALITE [©] 5061-625 Transparent Film		RA2	pass	pass
Dark Green	OKALITE® 5001-025 Transparent Film	CR1	RA2	pass	pass
GICCII					
Retroref	lective sheeting ORALITE® 5810 High Intensit	y Grade with t	he following So	reen Printi	ng Colours
white re	troreflective sheeting:				
			D A 2)	nacc	nacc
Yellow	ORALITE© 5018-020 Screen Printing Ink	CR2	RA2	pass	pass
Yellow Red	ORALITE [©] 5018-020 Screen Printing Ink ORALITE [©] 5018-030 Screen Printing Ink	CR2	RA2	pass	pass
Yellow Red Blue	ORALITE [©] 5018-020 Screen Printing Ink ORALITE [©] 5018-030 Screen Printing Ink ORALITE [©] 5018-050 Screen Printing Ink	CR2 CR2	RA2 RA2	•	1
Yellow Red Blue Green	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink	CR2 CR2 CR2	RA2	pass	pass
Yellow Red Blue Green	ORALITE [©] 5018-020 Screen Printing Ink ORALITE [©] 5018-030 Screen Printing Ink ORALITE [©] 5018-050 Screen Printing Ink	CR2 CR2	RA2 RA2	pass pass	pass pass
Yellow Red Blue Green Black	ORALITE© 5018-020 Screen Printing Ink ORALITE© 5018-030 Screen Printing Ink ORALITE© 5018-050 Screen Printing Ink ORALITE© 5018-060 Screen Printing Ink ORALITE© 5018-070 Screen Printing Ink	CR2 CR2 CR2 NR1	RA2 RA2 RA2	pass pass pass pass	pass pass pass pass
Yellow Red Blue Green Black	ORALITE© 5018-020 Screen Printing Ink ORALITE© 5018-030 Screen Printing Ink ORALITE© 5018-050 Screen Printing Ink ORALITE© 5018-060 Screen Printing Ink ORALITE© 5018-070 Screen Printing Ink ORALITE© 5018-070 Screen Printing Ink	CR2 CR2 CR2 NR1	RA2 RA2 RA2	pass pass pass pass	pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re	ORALITE© 5018-020 Screen Printing Ink ORALITE© 5018-030 Screen Printing Ink ORALITE© 5018-050 Screen Printing Ink ORALITE© 5018-060 Screen Printing Ink ORALITE© 5018-070 Screen Printing Ink ORALITE© 5018-070 Screen Printing Ink Clective sheeting ORALITE© 5810 High Intensite etroreflective sheeting:	CR2 CR2 CR2 NR1	RA2 RA2 RA2 - he following So	pass pass pass pass	pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink lective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink	CR2 CR2 CR2 NR1	RA2 RA2 RA2	pass pass pass pass pass pass	pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re	ORALITE© 5018-020 Screen Printing Ink ORALITE© 5018-030 Screen Printing Ink ORALITE© 5018-050 Screen Printing Ink ORALITE© 5018-060 Screen Printing Ink ORALITE© 5018-070 Screen Printing Ink ORALITE© 5018-070 Screen Printing Ink Clective sheeting ORALITE© 5810 High Intensite etroreflective sheeting:	CR2 CR2 CR2 NR1 y Grade with t	RA2 RA2 RA2 - he following So	pass pass pass pass	pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Rective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Printing Colours:	CR2 CR2 NR1 y Grade with t CR2 NR1	RA2 RA2 RA2 - he following So	pass pass pass pass pass pass	pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Tective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Printing Colours: Printing Colour ORALITE® 5019 UV Digital Print	CR2 CR2 NR1 y Grade with t CR2 NR1	RA2 RA2 RA2 - he following So	pass pass pass pass pass reen Printin pass pass	pass pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P Digital P The digital	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Tective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink	CR2 CR2 NR1 y Grade with t CR2 NR1 CR2 NR1	RA2 RA2 RA2 - he following So RA1 - tal printing syste	pass pass pass pass pass reen Printin pass pass	pass pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P Digital P The digital High-Spee	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Plective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink	CR2 CR2 NR1 y Grade with t CR2 NR1 CR2 NR1 ing Ink ing with the digitansparent lamin	RA2 RA2 RA2 - he following So RA1 - tal printing syste ate.	pass pass pass pass pass reen Printin pass pass	pass pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P Digital P The digital High-Spee Digital P	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Rective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink	CR2 CR2 NR1 y Grade with t CR2 NR1 CR2 NR1 ing Ink ing with the digitansparent lamin	RA2 RA2 RA2 - he following So RA1 - tal printing syste ate.	pass pass pass pass pass reen Printin pass pass	pass pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P Digital P The digital High-Spee Digital P On white	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Plective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink	CR2 CR2 NR1 y Grade with t CR2 NR1 CR2 NR1 ing Ink ing with the digitansparent lamin	RA2 RA2 RA2 - he following So RA1 - tal printing syste ate.	pass pass pass pass pass reen Printin pass pass	pass pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P Digital P The digital High-Spee Digital P On white sheeting	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Plective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink	CR2 CR2 NR1 y Grade with t CR2 NR1 cing Ink ing with the digitansparent lamin 61-000 Transp	RA2 RA2 RA2 - he following So RA1 - tal printing syste ate. arent Film	pass pass pass pass pass reen Printii pass pass m AGFA ANAI	pass pass pass pass pass pass pass pass
Yellow Red Blue Green Black Retroref yellow re Red Black Digital P Digital P The digital High-Spee Digital P On white sheeting WBhite	ORALITE® 5018-020 Screen Printing Ink ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-050 Screen Printing Ink ORALITE® 5018-060 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink ORALITE® 5018-070 Screen Printing Ink Plective sheeting ORALITE® 5810 High Intensite etroreflective sheeting: ORALITE® 5018-030 Screen Printing Ink ORALITE® 5018-070 Screen Printing I	CR2 CR2 NR1 y Grade with t CR2 NR1 cing Ink ing with the digitansparent lamin 61-000 Transp	RA2 RA2 RA2 - he following So RA1 - tal printing syste ate. hearent Film RA2	pass pass pass pass pass reen Printin pass pass	pass pass pass pass pass pass pass
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Cross	ODALITE© 5061-000 Transparent Film				
Cross	ORALITE [©] 5061-000 Transparent Film ORALITE [©] 5019-060 UV Digital Printing Ink and				
Green	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
	ORALITE® 5019-080 UV Digital Printing Ink and				
Brown	ORALITE® 5019-080 OV Digital Filling Tilk and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark	ORALITE® 5001-000 Transparent Tillin				
Green	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Green	ORALITE® 5019-073 UV Digital Printing Ink and				
Grey		CR2	RA2*	pass	pass
*Coofficien	ORALITE© 5061-000 Transparent Film	6 D A 2			
*Coefficien	nt of retroreflection: Value for printed colours 70% o	r RAZ		1	
Black	ORALITE® 5019-070 UV Digital Printing Ink and	NR1	-	pass	pass
	ORALITE [©] 5061-000 Transparent Film				'
Digital Dr	inting with protective laminate ORALITE® 509	O Anti-Dow E	ilmı		
On white	ORALITE©5810-010 High Intensity Grade	O Allu-Dew F	······		
sheeting	and				
		CD2	DAO	nace	2222
White	ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and	CR2	RA2	pass	pass
	ORALITE® 5090 Anti-Dew Film				•
Red	ORALITE® 5019-030 UV Digital Printing Ink and	CR2	RA2	pass	pass
	ORALITE® 5090 Anti-Dew Film			'	•
Blue	ORALITE® 5019-050 UV Digital Printing Ink and	CR2	RA2*	pass	pass
	ORALITE© 5090 Anti-Dew Film			Pass	Pass
Green	ORALITE© 5019-060 UV Digital Printing Ink and	CR2	RA2*	pass	pass
0.00	ORALITE© 5090 Anti-Dew Film	J. 1.2		Puee	P
Brown	ORALITE© 5019-080 UV Digital Printing Ink and	CR2	RA2	pass	pass
DIOWII	ORALITE© 5090 Anti-Dew Film	CIVE	IVAZ	pass	pass
Dark	ORALITE [©] 5019-625 UV Digital Printing Ink and	CR2	RA2	pass	pass
Green	ORALITE [©] 5090 Anti-Dew Film	CIVE	IVAZ	pass	pass
Grey	ORALITE© 5019-073 UV Digital Printing Ink and	CR2	RA2	pass	pass
dicy	ORALITE [©] 5090 Anti-Dew Film	CIVE	IVAZ	pass	pass
*Cooffici	ent of retroreflection: Value for printed col	ours 70% of	RA2		
Coefficie					
	ORALITE© 5019-070 UV Digital Printing Ink and				
Black	ORALITE© 5019-070 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	NR1		pass	pass
			<u>.</u>	pass	pass
Black		NR1	i Film:	pass	pass
Black	ORALITE© 5090 Anti-Dew Film	NR1	:i Film:	pass	pass
Black Digital Pri	ORALITE® 5090 Anti-Dew Film inting with protective laminate ORALITE® 509	NR1	:i Film:	pass	pass
Black Digital Pri On white	ORALITE® 5090 Anti-Dew Film inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade	NR1	:i Film:	pass	pass
Black Digital Prior On white sheeting White	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film	NR1 5 Anti-Graffit CR2	RA2	pass	pass
Black Digital Pri On white sheeting	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and	NR1 5 Anti-Graffit			
Digital Pri On white sheeting White Yellow	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	NR1 5 Anti-Graffit CR2 CR2	RA2 RA2	pass pass	pass
Black Digital Prior On white sheeting White	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5095 UV Digital Printing Ink and	NR1 5 Anti-Graffit CR2	RA2	pass	pass
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Digital Pri On white sheeting White Yellow Red Blue	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	NR1 CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2*	pass pass pass	pass pass pass
Digital Pri On white sheeting White Yellow Red	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and	NR1 S Anti-Graffit CR2 CR2 CR2	RA2 RA2 RA2	pass pass pass	pass pass pass
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Digital Proof On white sheeting White Yellow Red Blue Green Brown	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and	NR1 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR	RA2 RA2 RA2* RA2* RA2*	pass pass pass pass pass	pass pass pass pass pass
Digital Proof On white sheeting White Yellow Red Blue Green	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5019-073 UV Digital Printing Ink and	NR1 CR2 CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2*	pass pass pass pass pass	pass pass pass pass pass
Black Digital Pri On white sheeting White Yellow Red Blue Green Brown Grey	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	NR1 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR	RA2 RA2 RA2* RA2* RA2*	pass pass pass pass pass pass pass	pass pass pass pass pass pass
Black Digital Pri On white sheeting White Yellow Red Blue Green Brown Grey	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film or of retrorefelction: Value for printed colours 70% or	NR1 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR	RA2 RA2 RA2* RA2* RA2*	pass pass pass pass pass pass pass	pass pass pass pass pass pass
Black Digital Pri On white sheeting White Yellow Red Blue Green Brown Grey	inting with protective laminate ORALITE® 509 ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5019-070 UV Digital Printing Ink and	NR1 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR	RA2 RA2 RA2* RA2* RA2*	pass pass pass pass pass pass pass	pass pass pass pass pass pass
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	al printing is processed on white retroreflective sheeting			III AGI A ANAF	URNA M20
	ed-UV-Inkjet-System and is to be laminated with the tr 5061-000 Transparent Film	ansparent lam	mate		
n white					
heeting	and				
White	ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
VVIIICE	ORALITE® 5019i-020 UV Digital Printing Ink and	CNZ	IVAZ	pass	pass
Yellow	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
	ORALITE® 5019i-030 UV Digital Printing Ink and				
Red	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
	ORALITE© 5019i-050 UV Digital Printing Ink and				
Blue	ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
_	ORALITE© 5019i-060 UV Digital Printing Ink and	000	242		
Green	ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
D	ORALITE© 5019i-080 UV Digital Printing Ink and	CD2	D42		
Brown	ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark	ORALITE© 5019i-625 UV Digital Printing Ink and	CR2	RA2	nacc	nace
Green	ORALITE© 5061-000 Transparent Film	CRZ	KAZ	pass	pass
Grey	ORALITE© 5019i-073 UV Digital Printing Ink and	CR2	RA2	nacc	2200
Grey	ORALITE© 5061-000 Transparent Film	CRZ	KAZ	pass	pass
Black	ORALITE© 5019i-070 UV Digital Printing Ink and	NR1		nacc	nacc
DIACK	ORALITE© 5061-000 Transparent Film	INIZT		pass	pass
Clear ove Clear ove heeting of Inti Dev	erlay film with special function: rlay films with special function (anti-dew and anti-graff and a colouring process. v: sheeting and the combination with coloured laminates	s is accepted to			
Clear ove Clear ove heeting a Anti Dev The dyed anti-dew	erlay film with special function: rlay films with special function (anti-dew and anti-graff and a colouring process. v: sheeting and the combination with coloured laminates function ORALITE® 5090 Andi-Dew film for the following	s is accepted to			
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clear over the dyed nti-dew Oyed Re	erlay film with special function: rlay films with special function (anti-dew and anti-graff and a colouring process. v: sheeting and the combination with coloured laminates function ORALITE® 5090 Andi-Dew film for the following troreflective Sheeting: ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew film ORALITE® 5810-020 High Intensity Grade	s is accepted to	be processed w	ith the clear o	verlay film
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Clear ove heeting a Anti Dev The dyed nti-dew Dyed Re White	erlay film with special function: rlay films with special function (anti-dew and anti-graff and a colouring process. v: sheeting and the combination with coloured laminates function ORALITE® 5090 Andi-Dew film for the following troreflective Sheeting: ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew film ORALITE® 5810-020 High Intensity Grade and ORALITE® 5090 Anti-Dew film ORALITE® 5810-030 High Intensity Grade	s is accepted to ng colours:	be processed w	ith the clear o	verlay film
clear over the dyed nti-dew White Yellow	erlay film with special function: rlay films with special function (anti-dew and anti-graft and a colouring process. v: sheeting and the combination with coloured laminates function ORALITE® 5090 Andi-Dew film for the following troreflective Sheeting: ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew film ORALITE® 5810-020 High Intensity Grade and ORALITE® 5090 Anti-Dew film ORALITE® 5810-030 High Intensity Grade and ORALITE® 5090 Anti-Dew film	creations is accepted to the colours: CR2 CR2 CR2 CR2	RA2 RA2 RA2	pass	pass
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CR2

The certificate shall be reproduced in extenso

Dyed Retroreflective Sheeting:

- extracts only with written permission from DBI Certification A/S.

White ORALITE[©] 5810-010 High Intensity Grade



pass

pass

RA2

Issue date: 2018-11-21



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	and ORALITE [©] 5095 Anti-Gr					
Yellow	ORALITE [©] 5810-020 High Ir and ORALITE [©] 5095 Anti-Gr		CR2	RA2	pass	pass
Red	ORALITE [©] 5810-030 High Ir and ORALITE [©] 5095 Anti-Gr	tensity Grade	CR2	RA2	pass	pass
Blue	ORALITE© 5810-050 High Ir	tensity Grade	CR2	RA2	pass	pass
	and ORALITE [©] 5095 Anti-Gr	amiti Film			'	· .
Dyed Re	troreflective Sheeting ORA	LITE [©] 5810 High 1	Intensity Grade	with Coloured I	aminate:	
Yellow	ORALITE [©] 5061-020 Transp and ORALITE [©] 5095 Anti-Gr	arent Film	CR2	RA2	pass	pass
Red	ORALITE© 5061-030 Transparent Film		CR2	RA2	pass	pass
Blue	and ORALITE [©] 5095 Anti-Graffiti Film ORALITE [©] 5061-050 Transparent Film		CR2	RA2	pass	pass
	and ORALITE [©] 5095 Anti-Gr	affiti Film			Poss	P
David Dav	Land Charling Charling ODA	LTTE® FOAO III'-l- I				
	troreflective Sheeting ORA		Intensity Grade	with Lettering I	-ilm:	
Black	ORALITE [©] 5081-070 Lettering and ORALITE [©] 5095 Anti-Gr		NR1	-	pass	pass
External	illumination:					
mean illi	ıminance,		_	NPD		
uniformit	y of illuminance			NPD		
Corrosion	n resistance					
Brackets				Minimum S2: Hot dip galva 60µm. SP1	35 Inized to a mi	nimum of
Screws, n	uts and washers			according to	0 MPa, SP1	
Aluminum	ı plate			SP1		
					plate on expo	sed side if
Resistand and wate	ce to penetration of dust er			compartmen	can not be pr	
				equipment		

Prod. Reg. Nr. 7023

Issue date: 2018-11-21



Annex 2

TECHNICAL BASIS

	Date
Title	
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