

### **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

Is sued 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 protective edge and sign face materials applied for fixed vertical

road traffic signs (ZA.5)

The product fulfils the essential characteristic:

See Annex 1

Intended use: Permanent traffic signs

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

Infra Group Danmark ApS Højgårdsvej 11 5750 Ringe

and produced in the manufacturing plant:

CPA30005

Denmark

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

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 factory production control conducted by the manufacturer is assessed to ensure the

## CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.

This certificate was first issued on 2020-12-15 and will remain valid as long as neither the harmonised 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The attached annexes form part of this certificate.

Date of issue: 2024-04-26.

(This certificate supersedes the previous version of this certificate issued 2020-12-15)

Merete Poulsen Responsible for evaluation

Responsible for certification decision

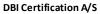


Annex 1
Description and classification:

Description and classification:					
Sign, sizes and mounting system		Classification a	ccording to wi	nd load classes	1
Protective edge: Minimum aluminium quality: $R_{p0,2} = 200 \text{ MPa}$ Brackets: Minimum aluminium quality: $R_{p0,2} = 200 \text{ MPa}$ Sign plate: Minimum aluminium quality: $R_{p0,2} = 180 \text{ MPa}$	Placedin	Placedin	Placedin	Placedin	Placedin
	WL1	WL2	WL3	WL4	WL5
d ≤ 1200 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB4,	TDB4,	TDB5,	TDB5,	TDB5,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.
d ≤ 900 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB3,	TDB4,	TDB4,	TDB4,	TDB4,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.
d ≤ 700 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB2,	TDB3,	TDB3,	TDB3,	TDB4,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.

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Jernholmen 12, 2650 Hvidovre Tlf.: 36 34 90 90



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





Sign, sizes and mounting system	Classification according to wind load classes					
Protective edge: Minimum aluminium quality:	<u> </u>	Ciassification a	CCOTAINE TO WI	114 1044 (14336)		
R <sub>p0.2</sub> = 200 MPa						
Brackets: Minimum aluminium quality:	Placedin	Placedin	Placedin	Placedin	Placedin	
$R_{p0,2} = 200 \text{ MPa}$	WL1	WL2	WL3	WL4	WL5	
Sign plate: Minimum aluminium quality:	VVLI	VVLZ	VVLS	VV L-4	WLS	
$R_{p0,2} = 180 \text{ MPa}$						
17p0,2 = 100 IVIF a						
	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate	
	and	and	and	and	and	
	brackets:	brackets:	brackets:	brackets:	brackets:	
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,	
	WL1,	WL2,	WL3,	WL4,	WL5,	
	DSLO, PLO,	DSLO, PLO,	DSLO, PLO,	DSLO, PLO,	DSLO, PLO,	
	TDB4,	TDB4,	TDB4,	TDB5,	TDB5,	
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	
			1			
s ≤1250 mm, t = 2 mm						
	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate	
	and	and	and	and	and	
	brackets:	brackets:	brackets:	brackets:	brackets:	
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,	
	WL1,	WL2,	WL3,	WL4,	WL5,	
	DSLO, PLO,	DSLO, PLO,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	
	TDB3,	TDB3,	TDB3,	TDB4,	TDB4,	
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	
s ≤ 900 mm, t = 2 mm						
	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate	
	and	and	and	and	and	
	brackets:	brackets:	brackets:	brackets:	brackets:	
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,	
	WL1,	WL2,	WL3,	WL4,	WL5,	
	DSLO, PLO,	DSLO, PLO,	DSL0, PL0,	DSLO, PLO,	DSLO, PLO,	
	TDB1,	TDB2,	TDB2,	TDB3,	TDB3,	
2 < 500 mm 1 2 mm	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	
a ≤ 500 mm, t = 2 mm	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	





Sign sizes and mounting system		Classification a	coording to wi	nd load classes	,
Sign, sizes and mounting system Protective edge: Minimum aluminium quality:		Liassification a	ccording to Wi	nd load classes	
$R_{p0,2} = 200 \text{ MPa}$ $Brackets: Minimum aluminium quality:$ $R_{p0,2} = 200 \text{ MPa}$ $Sign plate: Minimum aluminium quality:$ $R_{p0,2} = 180 \text{ MPa}$	Placedin	Placedin	Placedin	Placedin	Placedin
	WL1	WL2	WL3	WL4	WL5
h x b ≤ 1450 x ≤ 650 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB4,	TDB4,	TDB4,	TDB4,	TDB5,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.
h x b ≤ 1250 x ≤ 1200 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB5,	TDB5,	TDB5,	TDB5,	TDB5,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.

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Sign sizes and magnitude system	1	Classifications	accuding to wi	nd lood alocco	
Sign, sizes and mounting system Protective edge: Minimum aluminium quality:	<u> </u>	Liassification a	ccoraing to Wi	nd load classes	<u> </u>
$R_{p0,2} = 200 \text{ MPa}$ $Brackets: Minimum aluminium quality:$ $R_{p0,2} = 200 \text{ MPa}$ $Sign plate: Minimum aluminium quality:$ $R_{p0,2} = 180 \text{ MPa}$	Placedin	Placedin	Placedin	Placedin	Placedin
	WL1	WL2	WL3	WL4	WL5
h x b ≤ 1250 x ≤ 750 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB4,	TDB4,	TDB4,	TDB4,	TDB5,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.
	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB4,	TDB4,	TDB4,	TDB4,	TDB4,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.
h x b ≤ 1250 x ≤ 600 mm, t = 2 mm					





Cian standard mountain and an	d mounting system Classification according to wind load classes					
Sign, sizes and mounting system Protective edge: Minimum aluminium quality:		Liassification a	ccoraing to wi	na ioad classes		
$R_{p0,2} = 200 \text{ MPa}$ $Brackets: Minimum aluminium quality:$ $R_{p0,2} = 200 \text{ MPa}$ $Sign plate: Minimum aluminium quality:$ $R_{p0,2} = 180 \text{ MPa}$	Placedin	Placedin	Placedin	Placedin	Placedin	
	WL1	WL2	WL3	WL4	WL5	
h x b ≤ 1250 x ≤ 400 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate	
	and	and	and	and	and	
	brackets:	brackets:	brackets:	brackets:	brackets:	
	PAF1,	PAF1, W	PAF1,	PAF1,	PAF1,	
	WL1,	L2,	WL3,	WL4,	WL5,	
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	
	TDB3,	TDB3,	TDB4,	TDB4,	TDB4,	
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	
h x b ≤ 1250 x ≤ 250 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate	
	and	and	and	and	and	
	brackets:	brackets:	brackets:	brackets:	brackets:	
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,	
	WL1,	WL2,	WL3,	WL4,	WL5,	
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	
	TDB1,	TDB2,	TDB2,	TDB2,	TDB3,	
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	
11 X D S 1230 X S 230 IIIII, t = 2 IIIII	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate	
	and	and	and	and	and	
	brackets:	brackets:	brackets:	brackets:	brackets:	
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,	
	WL1,	WL2,	WL3,	WL4,	WL5,	
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	
	TDB4,	TDB5,	TDB5,	TDB5,	TDB5,	
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	

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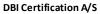
Jernholmen 12, 2650 Hvidovre Tlf.: 36 34 90 90

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Sign, sizes and mounting system	Classification according to wind load classes				
Protective edge: Minimum aluminium quality:		ciassification d	COURTING TO WI	1000 (105585	•
R <sub>p0,2</sub> = 200 MPa					
Brackets: Minimum aluminium quality:	Placedin	Placedin	Placedin	Placedin	Placedin
$R_{p0,2} = 200 \text{ MPa}$	WL1	WL2	WL3	WL4	WL5
Sign plate: Minimum aluminium quality:					
R <sub>p0,2</sub> = 180 MPa					
hxhc800xc750 mm t = 3 mm	Sign plate and brackets: PAF1, WL1, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	Sign plate and brackets: PAF1, WL2, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	Sign plate and brackets: PAF1, WL3, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	Sign plate and brackets: PAF1, WL4, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.	Sign plate and brackets: PAF1, WL5, DSL0, PL0, TDB4, TDT0, P2, E2 and SP1.
h x b ≤ 800 x ≤ 750 mm, t = 2 mm					
	Sign plate	Sign plate	Sign plate	Sign plata	Sign plate
	and	and	and	Sign plate and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSLO, PLO, TDB3,	DSLO, PLO, TDB3,	DSLO, PLO, TDB4,	DSLO, PLO, TDB4,	DSLO, PLO, TDB4,
	TDT0, P2,				
	E2 and SP1.				
				h.	
$h \times b \le 800 \times 600 \text{ mm}, t = 2 \text{ mm}$			7		
			7		
			74		
	Sign plate				
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1, DSL0, PL0,	WL2, DSL0, PL0,	WL3, DSL0, PL0,	WL4, DSL0, PL0,	WL5, DSL0, PL0,
	TDB2,	TDB3,	TDB3,	TDB3,	TDB3,
	TDT0, P2,				
	E2 and SP1.				
h x b ≤ 800 x ≤ 400 mm, t = 2 mm					
h x b ≤ 800 x ≤ 400 mm, t = 2 mm					

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Jernholmen 12, 2650 Hvidovre Tlf.: 36 34 90 90

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Cina since and recombine contains	Classification according to wind load classes				
Sign, sizes and mounting system Protective edge: Minimum aluminium quality:		ciassification a	ccording to Wi	nu ioad classes	
$R_{p0,2} = 200 \text{ MPa}$ $Brackets: Minimum aluminium quality:$ $R_{p0,2} = 200 \text{ MPa}$ $Sign plate: Minimum aluminium quality:$ $R_{p0,2} = 180 \text{ MPa}$	Placedin	Placedin	Placedin	Placedin	Placedin
	WL1	WL2	WL3	WL4	WL5
	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB1,	TDB2,	TDB2,	TDB2,	TDB2,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.
h x b ≤ 800 x ≤ 250 mm, t = 2 mm  h x b ≤ 700 x ≤ 700 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB3,	TDB4,	TDB4,	TDB4,	TDB4,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.
h x b ≤ 700 x ≤ 250 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB2,	TDB2,	TDB2,	TDB2,	TDB2,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.

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Jernholmen 12, 2650 Hvidovre Tlf.: 36 34 90 90



Sign, sizes and mounting system		Classification a	ccording to wi	nd load classes	1
Protective edge: Minimum aluminium quality: $R_{p0,2} = 200 \text{ MPa}$ $Brackets: Minimum aluminium quality: R_{p0,2} = 200 \text{ MPa} Sign \ plate: Minimum aluminium quality: \\ R_{p0,2} = 180 \text{ MPa}$	Placedin	Placedin	Placedin	Placedin	Placedin
	WL1	WL2	WL3	WL4	WL5
h x b ≤ 650 x ≤ 1200 mm, t = 2 mm	Sign plate	Sign plate	Sign plate	Sign plate	Sign plate
	and	and	and	and	and
	brackets:	brackets:	brackets:	brackets:	brackets:
	PAF1,	PAF1,	PAF1,	PAF1,	PAF1,
	WL1,	WL2,	WL3,	WL4,	WL5,
	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,	DSL0, PL0,
	TDB3,	TDB4,	TDB4,	TDB4,	TDB4,
	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,	TDT0, P2,
	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.	E2 and SP1.





Resistance to horizontal loads	NPD
	To be declared on the support
Resistance to bending	NPD
	To be declared on the support
Resistance to torsion	NPD
	To be declared on the support
Fixings:	Pass.
TIXITIGS.	rass.
	The signs, sizes are intended for
	mounting at the top of another
	straightsteel pipe. Together the
	signs and the straight steel is the
	support for the sign.
	Glue for fixing the signs into the
	bracket according to DIN 53504:
	Load bearing capacity: ≥ 1.5 MPa
	Elasticity moduls: ≥ 0.65 MPa
	Charge on broken: ≥ 1.55 MPa
	Elongation at breaks: ≥ 300 %
	Shore A hardness:≥ 40
	Themal resistance: -40 to 90°C
	Themat resistance: -40 to 90 C
	Dance of the tight of the
	Pressure force for tightening:
	2 kN fot the clamp.
	5 kN for the brackets.
	M8 Screws, nuts and washers are
	minimum A2, class 70 (f <sub>y,b</sub> = 450
	MPa).
Temporary deflection (supports)	NPD
-bending	To be declared on the support
-torsion	To bo dedicate our site outpoint
Permanent deflection	NDP
Performance under vehicle impact	NPD
	To be declared on the support
Corrosion resistance	
Brackets	SP1
	Minimum S235
	Hot dip galavanized according to EN 1461
Screws, nuts and washers	M8: fy,b≥ 450MPa,minimum A2 or FZV
	SP1
Aluminum plate	SP1 La quered AL-plate on exposed side if
	any.
Resistance to penetration of dust	NPD
and water	





	ective sheeting ORALITE® 5710 Engineering Grade	with the followin	g original dyed co		
Colour	Name	Visibility charate	eristics	Durability	
		Daylight	Coefficient of	Impact	Resistance
		Chromaticity &	retroreflection	resistance	weathering
		luminance	4.1.1.4	4.1.2.	4.1.1.5.
		factor 4.1.1.3.			Forblack
ļ		Forblack			colours:
ļ		colours:			7.2.2.1.4
		7.2.2.1.3			
White	ORALITE <sup>©</sup> 5710-010 Engineering Grade	CR2	RA1	pass	pass
Yellow	ORALITE <sup>©</sup> 5710-020 Engineering Grade	CR2	RA1	pass	pass
Red	ORALITE <sup>©</sup> 5710-030 Engineering Grade	CR2	RA1	pass	pass
Blue	ORALITE <sup>©</sup> 5710-050 Engineering Grade	CR2	RA1	pass	pass
Green	ORALITE <sup>©</sup> 5710-060 Engineering Grade	CR2	RA1	pass	pass
Orange	ORALITE <sup>©</sup> 5710-035 Engineering Grade	CR1	RA1	pass	pass
Brown	ORALITE <sup>©</sup> 5710-080 Engineering Grade	CR2	RA1	pass	pass
-4					
	ective sheeting ORALITE® 5710 engineering Grade		ng Lettering Film:		1
Black	ORALITE© 5071-070 Lettering Film	NR1	-	pass	pass
	ective sheeting ORALITE® 5710 engineering Grade			·	
	ctive sheeting:		g serven prinsing	orours on win	
Yellow	ORALITE <sup>©</sup> 5018-020 Screen Printing ink	CR2	RA1	pass	pass
Red	ORALITE <sup>©</sup> 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
D. a CA					
Retrorefle	ective sheeting ORALITE® 5710 engineering Gradective sheeting:	e with the following	ng screen printing	colours on ye	llow
Retrorefle retrorefle	ective sheeting ORALITE© 5710 engineering Gradective sheeting:	e with the followin	ng screen printing	colours on ye	llow pass
Retrorefle retrorefle Red	ective sheeting ORALITE© 5710 engineering Grade			pass	pass
Retrorefle retrorefle Red	ective sheeting ORALITE© 5710 engineering Gradective sheeting:  ORALITE© 5018-030 Screen Printing ink	CR2			
Retrorefle retrorefled Red Black	ective sheeting ORALITE© 5710 engineering Gradective sheeting:  ORALITE© 5018-030 Screen Printing ink	CR2		pass	pass
Retrorefle retrorefle Red Black Digital pri	ective sheeting ORALITE© 5710 engineering Gradective sheeting:  ORALITE© 5018-030 Screen Printing ink  ORALITE© 5018-070 Screen Printing ink	CR2 NR1	RA1	pass pass	pass pass
Retrorefle retrorefle Red Black Digital pri	ective sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink  ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective she	CR2 NR1 eeting with the dig	RA1 - gital printing syster	pass pass	pass pass
Retrorefle retrorefle Red Black Digital pri The digita High-Spe	ective sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink  ORALITE® 5018-070 Screen Printing ink  Inting colours:	CR2 NR1 eeting with the dig	RA1 - gital printing syster	pass pass	pass pass
Retrorefler retrorefler Red Black Digital pri The digita High-Sper ORALITE©	ortive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink  ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the colours of the colour of the c	CR2 NR1 eeting with the dig	RA1 - gital printing syster	pass pass	pass pass
Retrorefler retrorefler Red Black Digital pri The digita High-Spee ORALITE© On white sheeting	oractive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink  ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and	CR2 NR1 eeting with the dig ne transparent lan	RA1 - gital printing system ninate	pass pass n AGFA ANAPU	pass pass JRNA M2050
Retrorefler retrorefler Red Black  Digital pri The digital High-Spector ORALITE® On white is heeting	oractive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink  ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film	CR2 NR1 eeting with the dig	RA1 - gital printing syster	pass pass	pass pass
Retrorefleretrorefleretroreflerene Red Black Digital pri The digital High-Spector Constitution White Inches the eting White	ective sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours: all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-020 UV Digital Printing Ink and	CR2 NR1 eeting with the dig ne transparent lan	RA1 - gital printing system ninate	pass pass n AGFA ANAPU	pass pass JRNA M2050
Retrorefle retrorefle Red Black Digital pri The digital High-Spec ORALITE© On white sheeting White Yellow	ective sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink  ORALITE® 5018-070 Screen Printing ink  Inting colours:  al printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1 eeting with the digne transparent lan	RA1 - gital printing systeminate  RA1	pass pass m AGFA ANAPL pass	pass pass  JRNA M2050  pass
Retrorefle retroreflee Red Black Digital pri The digital High-Spee ORALITE© OR White sheeting White Yellow	ctive sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film	CR2 NR1 eeting with the digne transparent lan	RA1 - gital printing systeminate  RA1	pass pass m AGFA ANAPL pass	pass pass  JRNA M2050  pass
Retrorefle retrorefled Red Black Digital pri The digital High-Spec ORALITE© On white sheeting White Yellow	ctive sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film	CR2 NR1 eeting with the digne transparent land CR2 CR2	RA1 - gital printing systeminate  RA1 RA1	pass pass n AGFA ANAPL pass pass	pass pass  JRNA M2050  pass pass
Retrorefle retrorefled Red Black Digital pri The digital High-Spec ORALITE© On white sheeting White Yellow	ctive sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1 eeting with the digne transparent land CR2 CR2	RA1 - gital printing systeminate  RA1 RA1	pass pass n AGFA ANAPL pass pass	pass pass  JRNA M2050  pass pass
Retrorefler retrorefler retrorefler Red Black Digital pri The digital High-Specore ORALITE® On white sheeting White Yellow Red Blue	ctive sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1 eeting with the dignetransparent land CR2 CR2 CR2	RA1	pass pass m AGFA ANAPL pass pass pass	pass pass  JRNA M2050  pass pass pass pass
Retrorefler retrorefler retrorefler Red Black  Digital pri The digital High-SperoRALITE® ON white sheeting White Yellow  Red  Blue	ctive sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-020 UV Digital Printing Ink and 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® 5062-000 Transparent Film  ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5019-060 UV Digital Printing Ink and	CR2 NR1 eeting with the dignetransparent land CR2 CR2 CR2	RA1	pass pass m AGFA ANAPU  pass pass pass	pass pass  JRNA M2050  pass pass pass pass
Retrorefler retrorefler retrorefler Red Black  Digital pri The digital High-Spec ORALITE® ON white sheeting White Yellow  Red Blue  Green	ctive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film	CR2 NR1  eeting with the dignetransparent land CR2 CR2 CR2 CR2 CR2	RA1  RA1  RA1  RA1  RA1  RA1	pass pass m AGFA ANAPU  pass pass pass pass	pass pass  JRNA M2050  pass pass pass pass
Retrorefler retrorefler retrorefler Red Black  Digital pri The digital High-Spec ORALITE® ON white sheeting White Yellow  Red Blue  Green	ctive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the colours of the colour of the col	CR2 NR1  eeting with the dignetransparent land CR2 CR2 CR2 CR2 CR2	RA1  RA1  RA1  RA1  RA1  RA1	pass pass m AGFA ANAPU  pass pass pass pass	pass pass  JRNA M2050  pass pass pass pass
Retrorefleretrorefleretrorefleretroreflerene Red Black Digital pri The digital High-Spector ORALITE® ORALITE® ON white sheeting White Yellow Red Blue Green Grey	ctive sheeting ORALITE® 5710 engineering Gradective sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours:  all printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film  ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1  eeting with the dignetransparent land CR2 CR2 CR2 CR2 CR2 CR2	RA1 RA1 RA1 RA1 RA1 RA1 RA1	pass pass m AGFA ANAPU  pass pass pass pass pass	pass pass  JRNA M2050  pass pass pass pass pass pass
Retrorefler retrorefler Red Black  Digital pri The digital High-Spec ORALITE® ON white sheeting White Yellow  Red  Blue  Green	ctive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours: In printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1  eeting with the dignetransparent land CR2 CR2 CR2 CR2 CR2 CR2	RA1 RA1 RA1 RA1 RA1 RA1 RA1	pass pass  m AGFA ANAPL  pass  pass  pass  pass  pass  pass  pass  pass	pass pass  JRNA M2050  pass pass pass pass pass pass pass
Retrorefler retror	ctive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours: In printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1  eeting with the dignetransparent land  CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 NR1	RA1 RA1 RA1 RA1 RA1 RA1 RA1 RA1 RA1	pass pass  n AGFA ANAPL  pass  pass  pass  pass  pass  pass  pass  pass  pass  pass	pass pass  JRNA M2050  pass pass pass pass pass pass pass pa
Retrorefle Retrorefle Red Black Digital pri The digital High-Spec DRALITE DRALITE On white Scheeting White Cellow Red Blue Green Grey	ctive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours: In printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1  eeting with the dignetransparent land  CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 NR1	RA1 RA1 RA1 RA1 RA1 RA1 RA1 RA1 RA1	pass pass  n AGFA ANAPL  pass  pass  pass  pass  pass  pass  pass  pass  pass  pass	pass pass  JRNA M2050  pass pass pass pass pass pass pass pa
Retrorefle Retrorefle Red Black Digital pri The digital High-Spec DRALITE DRALITE On white Heeting White Yellow Red Blue Green	ctive sheeting ORALITE® 5710 engineering Grade ctive sheeting:  ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink  Inting colours: In printing is processed on white retroreflective sheed-UV-Inkjet-System and is to be laminated with the 5062-000 Transparent Film.  ORALITE® 5710-010 Engineering Grade and  ORALITE® 5062-000 Transparent Film  ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5062-000 Transparent Film	CR2 NR1  eeting with the dignetransparent land  CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 NR1	RA1 RA1 RA1 RA1 RA1 RA1 RA1 RA1 RA1	pass pass  n AGFA ANAPL  pass  pass  pass  pass  pass  pass  pass  pass  pass  pass	pass pass  JRNA M2050  pass pass pass pass pass pass pass pa

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On white	ORALITE© 5710-010 Engineering Grade and				
sheeting					
White	ORALITE <sup>©</sup> 5062-000 Transparent Film	CR2	RA1	pass	pass
Yellow	ORALITE© 5019i-020 UV Digital Printing Inkand	CR2	D A 1	2000	2000
	ORALITE© 5062-000 Trans parent Film	CRZ	RA1	pass	pass
Red	ORALITE© 5019i-030 UV Digital Printing Inkand	CR2	RA1	2000	2000
	ORALITE© 5062-000 Trans parent Film	CRZ	KAI	pass	pass
Blue	ORALITE© 5019i-050 UV Digital Printing Inkand	CR2	RA1	pass	2000
	ORALITE© 5062-000 Trans parent Film	CRZ			pass
Green	ORALITE© 5019i-060 UV Digital Printing Inkand	CD2	D 4.1		
	ORALITE© 5062-000 Trans parent Film	CR2	RA1	pass	pass
Orange	ORALITE© 5019i-035 UV Digital Printing Inkand	CR1	RA1		nass
	ORALITE© 5062-000 Trans parent Film	CKI	KAI	pass	pass
Brown	ORALITE© 5019i -080 UV Digital Printing Inkand	CR2	RA1	2255	2000
	ORALITE© 5062-000 Trans parent Film	CNZ	KAI	pass	pass
Black	ORALITE© 5019i-070 UV Digital Printing Inkand	NR1		nacc	nass
	ORALITE© 5062-000 Transparent Film	INUT		pass	pass
White	ORALITE© 5062-000 Trans parent Film	CR2	RA1	pass	pass
					•

## Clear protective overlay film:

Clear protective overlay films (Anti-Graffiti) are a lways admitted in combination with retroreflective sheeting and a colouring process.

#### Anti-Graffiti:

The original dyed retroreflective sheeting with the screen-printing ORALITE<sup>©</sup> 5018 is accepted to be laminated with the clear protective overlay film ORALITE<sup>©</sup> 5095 Anti-Graffitti Film for the following colours:

Original dyed retroreflective sheeting ORALITE© 5710 Enginering Grade with screen -printing ORALITE© 5018.						
Red	ORALITE <sup>©</sup> 5018-030 Screen Printing Inkand	CDO	D A 1			
	ORALITE <sup>©</sup> 5095 Anti-Graffiti Film	CR2	RA1	pass	pass	
Blue	ORALITE <sup>©</sup> 5018-050 Screen Printing Inkand	CDO	D A 1			
	ORALITE <sup>©</sup> 5095 Anti-Graffiti Film	CR2	RA1	pass	pass	
Black	ORALITE <sup>©</sup> 5018-070 Screen Printing Inkand	NR1		2255	nass	
	ORALITE© 5095 Anti-Graffiti Film	INLT		pass	pass	





	10 High Intensity Grade: re sheeting ORALITE® 5810 High Intensity Grad	le with the follow	ing original dyed c	olours:	
Colour	Name	Visibility charat		Durability	
		Daylight Chromaticity	Coefficient of retroreflection	Impact resistance	Resistance to weathering
		& luminance	4.1.1.4	4.1.2.	4.1.1.5.
		factor 4.1.1.3.			For black colours
		Forblack			7.2.2.1.4
		colours:			
		7.2.2.1.3			
White	ORALITE© 5810-010 High Intensity Grade	CR2	RA2	pass	pass
Yellow	ORALITE® 5810-020 High Intensity Grade	CR2	RA2	pass	pass
Red	ORALITE <sup>©</sup> 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
		- L		P	
Retroreflectiv	ve sheeting ORALITE© 5810 High Intensity Gra	de with the follow	ing Lettering Film	•	
Black	ORALITE© 5081-070 Lettering Film	NR1	-	pass	pass
		1			, p. 500
Retroreflectiv	ve sheeting ORALITE® 5810 High Intensity Grad	le with the followi	ing Coloured Lami	nates:	
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
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
1			1		
	re sheeting ORALITE© 5810 High Intensity Gra	de with the follow	ring Screen Printin	g Colours on y	ellow retroreflectiv
sheeting:		1			
Red	ORALITE© 5018-030 Screen Printing Ink	CR2	RA1	pass	pass
Black	ORALITE© 5018-070 Screen Printing Ink	NR1	-	pass	pass
Digital Printin					
	g Colour ORALITE® 5019 UV Digital Printing In				
	inting is processed on white retroreflective she		tal printing system	AGFA ANAPU	RNA M2050 High-
	kjet-System and is to be laminated with a trans				
	g with protective laminate ORALITE® 5061-00	0 Transparent Filn	n		
On white	ORALITE©5810-010 High Intensity Grade				
sheeting	and		T = -	T	Т
White	ORALITE© 5061-000 Trans parent Film	CR2	RA2	pass	pass
Yellow	ORALITE© 5019-020 UV Digital Printing Ink	CR2	RA2	pass	pass
	and ORALITE© 5061-000 Transparent Film	5	=	P = 35	F = 35
Red	ORALITE© 5019-030 UV Digital Printing Ink	CR2	RA2	pass	pass
	and ORALITE© 5061-000 Transparent Film	SILE		P 4 3 3	P 4 3 3
Blue	ORALITE© 5019-050 UV Digital Printing Ink	CR2	RA2	pass	pass
	and ORALITE© 5061-000 Transparent Film	J. C.	10.2	2000	P 233
Green	ORALITE© 5019-060 UV Digital Printing Ink	CR2	RA2	pass	pass
0.0011	and ORALITE© 5061-000 Transparent Film	CITZ	11/12	Pass	ρασσ
Brown	ORALITE© 5019-080 UV Digital Printing Ink	CR2	RA2	pass	pass
DIOWII	and ORALITE© 5061-000 Transparent Film	CIVZ	IVAZ	Pass	μα 33

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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 o	of retroreflection: Value for printed colours 70% of	of RA2	1		1
	ORALITE© 5019-070 UV Digital Printing Ink				
Black	and ORALITE© 5061-000 Transparent Film	NR1	-	pass	pass
Digital Printin	g with protective laminate ORALITE® 5090 Anti	-Dew Film:			
On white	ORALITE©5810-010 High Intensity Grade				
sheeting	and				
White	ORALITE© 5090 Anti-Dew Film	CR2	RA2	pass	2250
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 o	of retroreflection: Value for printed colours 70% of	of RA2			
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	NR1	-	pass	pass
Digital Printin	g with protective laminate ORALITE® 5095 Anti-	-Graffiti Film:			
	ORALITE <sup>©</sup> 5810-010 High Intensity Grade				
sheeting	and	T.			
sheeting		CR2	RA2	pass	pass
sheeting White	and	CR2	RA2	pass pass	pass pass
sheeting White Yellow	and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink				·
On white sheeting White Yellow Red	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	CR2	RA2	pass	pass
sheeting White Yellow Red	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® 5095 Anti-Graffiti Film ORALITE® 5019-050 UV Digital Printing Ink	CR2	RA2	pass	pass
sheeting White Yellow Red Blue Green	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® 5095 Anti-Graffiti Film ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-060 UV Digital Printing Ink	CR2 CR2 CR2	RA2 RA2 RA2*	pass pass pass	pass pass pass
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sheeting White Yellow Red Blue Green Brown Grey	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® 5095 Anti-Graffiti Film ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film Of retrorefelction: Value for printed colours 70% of	CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2* RA2* RA2*	pass pass pass pass pass pass	pass pass pass pass pass
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white Wellow Red Green Brown Grey *Coefficient of	and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and 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	CR2 CR2 CR2 CR2 CR2 CR2 CR2 NR1	RA2 RA2* RA2* RA2 RA2 -	pass pass pass pass pass pass pass	pass pass pass pass pass pass pass
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sheeting White Yellow Red Blue Green Brown Grey *Coefficient of Black If the colour End Black Digital Printing The digital pr	and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and 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 orallite® 5019-070 UV Digital Printing Ink and ORALITE® 5019-070 UV Digital Printing Ink orallite® 5019-070 UV Digital Printing Ink inting is processed on white retroreflective s heer of the processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on white retroreflective s heer of the printing is processed on whit	CR2 CR2 CR2 CR2 CR2 CR2 Of RA2 NR1 is a dmitted to be NR1 :	RA2 RA2* RA2* RA2 RA2 RA2  RA2  RA2	pass pass pass pass pass pass pass transparentla pass	pass pass pass pass pass pass pass pass
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sheeting White Yellow Red Blue Green Brown Grey *Coefficient of Black If the colour Educk Digital Printing The digital pr	and ORALITE® 5095 Anti-Graffitti Film ORALITE® 5019-020 UV Digital Printing Ink and 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 inting is processed on white retroreflective sheet siget-System and is to be laminated with the transformation or the processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing of the printing Ink inting is processed on the printing Ink inting inting inting inting Ink inting inting Ink intin	CR2 CR2 CR2 CR2 CR2 CR2 Of RA2 NR1 is a dmitted to be NR1 :	RA2 RA2* RA2* RA2 RA2 RA2  RA2  RA2	pass pass pass pass pass pass transparent la pass	pass pass pass pass pass pass pass pass

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ORALITE© 5019i-020 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
ORALITE© 5019i-030 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
ORALITE© 5019i -050 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
ORALITE© 5019i-625 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
ORALITE© 5019i-073 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	NR1		pass	pass
	Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-030 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-050 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-625 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-073 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent	Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-030 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-050 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-625 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-073 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent  NR1	Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-030 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-050 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent CR2 RA2  Film  ORALITE© 5019i-625 UV Digital Printing Ink and ORALITE© 5061-000 Transparent CR2 RA2  Film  ORALITE© 5019i-073 UV Digital Printing Ink and ORALITE© 5061-000 Transparent CR2 RA2  Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent CR2 RA2  Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent RA2	Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-030 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-050 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-625 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-073 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-073 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film  ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent NR1  - 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 Andi-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 Retrofeflective Sheeting ORALITE® 5810 High Intensity Grade with Coloured Laminate:

D y cu netione.	by current of the carrier of the carrier of the carrier of the control of the carrier of the car				
Yellow	ORALITE© 5061-020 Trans parent Film and ORALITE© 5090 Anti-Dew film	CR2	RA2	pass	pass
Red	ORALITE© 5061-030 Trans parent Film and ORALITE© 5090 Anti-Dew film	CR2	RA2	pass	pass
Blue	ORALITE© 5061-050 Trans parent Film and ORALITE© 5090 Anti-Dew film	CR2	RA2	pass	pass

## Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Lettering film:

1			<u> </u>		
Diade	ORALITE© 5081-070 Lettering Film	ND4			
Black	and ORALITE© 5090 Anti-Dew film	NR1	-	pass	pass

## Anti-Graffiti:

The dyed sheeting and the combination with coloured laminates is a ccepted to be processed with the clear overlay film with anti-graffiti function ORALITE® 5095 Anti Graffiti Film for the following colours.

## **Dyed Retroreflective Sheeting:**

byea near of energia.					
White	ORALITE© 5810-010 High Intensity Grade	CR2	RA2	pass	pass

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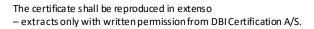
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	and ORALITE© 5095 Anti-Graffiti Film				
Yellow	ORALITE© 5810-020 High Intensity Grade	CR2	RA2	pass	pass
TCHOW	and ORALITE© 5095 Anti-Graffiti Film	CITZ	IVAZ		pass
Red	ORALITE© 5810-030 High Intensity Grade	CR2	RA2	pass	pass
Reu	and ORALITE© 5095 Anti-Graffiti Film	CIVZ	NAZ	pass	pass
Blue	ORALITE© 5810-050 High Intensity Grade	CR2	RA2	pass	pass
DidC	and ORALITE© 5095 Anti-Graffiti Film	CIVE	IVAZ	pass	Pa 33
Dyed Retrore	eflective Sheeting ORALITE® 5810 High Intensity	Grade with Colo	ured Laminate:		
Yellow	ORALITE© 5061-020 Trans parent Film	CR2	RA2	pass	pass
	and ORALITE© 5095 Anti-Graffiti Film	CITZ			
Red	ORALITE© 5061-030 Trans parent Film	CR2	RA2	pass	pass
	and ORALITE© 5095 Anti-Graffiti Film	CIVZ			
Blue	ORALITE© 5061-050 Trans parent Film	CR2	RA2	pass	pass
	and ORALITE© 5095 Anti-Graffiti Film	CIVE	IVAZ	- Pa 33	pu 33
<b>Dyed Retrore</b>	eflective Sheeting ORALITE® 5810 High Intensity	Grade with Lette	ering Film:		
Black	ORALITE© 5081-070 Lettering Film	NR1	4	pass	pass
	and ORALITE© 5095 Anti-Graffiti Film	IVICI		ризз	Pu 33
Externalillur	mination:				
mean illumir	nance,				NPD
uniformity	of illuminance				NPD
				•	







### Annex 2

### **TECHNICAL BASIS**

Accredited Laboratory	Report no.	Date
None	Infra Group Calculation of minor traffic signs (ITC) Shapes and sizes for signs with protection edge mounted on brackets made of an	December 2020, rev. 4
	extruded aluminium profile.  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