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

Gallows Type LG

Scope: Fixed vertical road traffic signs (ZA.6)

The product fulfils the essential characteristic:

See Annex 1

Intended use: Complete assemblies of fixed vertical road traffic signs.

The signs and gallows are intended for mounting at ground level

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

Infra Group Danmark ApS Industrivej 27

5750 Ringe Denmark

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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 2018-05-02)

This certificate was first issued 2018-03-07.

Per Lyster

Responsible for evaluation

Merete Poulsen Responsible for certification decision

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Annex 1 **EXTENT**

Description and classification: Sign, sizes and mounting system Classification according to Pipes: Minimum steel quality: S235 in dimension wind load classes Ø33,7 x 3,2, Ø48,3 x 2,9, Ø48,3 x 3,0 and Ø48,3 x 3,2 mm Placed in Placed Placed in Signboard: Minimum aluminium quality: $R_{p0,2} = 180$ MPa, WL1 in WL2 WL3 min. 2 mm thickness $h \le 500 \text{ mm}, b \le 2500 \text{ mm} \text{ and}$ L ≤ 500 mm 8 PAF1, h + 20 PAF1, PAF1, WL2, 8 WL1, WL3, DSLO, 9 DSL0, DSL0, PLO, PLO, PLO, b + 20 TDB3, _Ø33,7 x X,X for b ≥ 2,00 m TDB3, TDB3, P2, E1 P2, E1 P2, E1 Brace 30 x 10 mm steel bar for b < 2,00 m and and SP1. and SP1. SP1. ·Ø48,3 x X,X $h1 \le 330 \text{ mm}, b \le 1750 \text{ mm}$ and $L \le 500 + h2 + 30 \text{ mm}$ Type LG 1.1 Fixed Fixed PAF1, PAF1, PAF1, WL3, WL1, WL2, DSL0, DSL0, DSL0, PLO. PLO, PLO, h1 + 20 TDB2, TDB3, TDB3, 8 P2, E1 P2, E1 P2, E1 and SP1. and SP1. and SP1. 9 h2 + 20 $h1 \le 330 \text{ mm}, h2 \le 330 \text{ mm},$ $b \le 3000$ mm and L ≤ 500 mm Ø33,7 x X,X for b ≥ 2,00 m -Ø48,3 x X,X Brace 30 x 10 mm steel bar for b < 2,00 m PAF1, PAF1, PAF1, Type LG 1.2 WL1, WL2, WL3, Fixed Fixed DSL0, DSL0, DSL0, PLO, PLO, PLO, TDB3, TDB3, TDB4, P2, E1 P2, E1 P2, E1 and SP1 and SP1. and SP1.

		Numbers		Me	assure	es for	brace	s	
	b	of	* *	* *	< →	< →	< →	→	-
		braces							
	1000	2	344	332	344				
74	1250	2	426	418	426				
	1500	2	510	500	510				
	1750	2	593	584	593				
	2000	2	677	666	677				
	2250	4	460	450	450	450	460		
	2500	4	510	500	500	500	510		
	2750	4	560	550	550	550	560		
	3000	5	510	500	500	500	500	510	
	3250	6	475	464	464	464	464	464	475
	3500	6	510	500	500	500	500	500	510

b ≤) mm, h2 ≤ ≤ 3500 mm a L ≤ 500 mm	and
PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB4, P2, E1 and SP1.	

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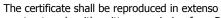
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	Sign, sizes and mounting system Pipes: Minimum steel quality: S235 in dimension		ation acco	
	33,7 x 3,2, Ø48,3 x 2,9, Ø48,3 x 3,0 and Ø48,3 x 3,2 mm Signboard: Minimum aluminium quality: $R_{p0,2} = 180$ MPa, min. 2 mm thickness	Placed in WL1	Placed in WL2	Placed in WL3
			nm and L ≤ 60 + 500 m	
	d + 20	PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1.
	2		mm, h1 ≤ h2 + 30 +	
47	07 07 + 29 07 110 110 110 07 07 07 07 07 07 07 07 07 07 07 07 07	PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1.
	b + 20 = d + 20 Brace 30 x 10 mm	d ≤ 700 h2 ≤ 300	mm, h1 ≤ mm and L	300 mm, ≤ 500 mm
	Type LG 2 Fixed Fixed Fixed	PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1.



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Pipes: Minimum steel qu	mounting system uality: S235 in dimension		ation acco	
Signboard: Minimum alumin	$8,3 \times 3,0$ and $\emptyset48,3 \times 3,2$ mm ium quality: $R_{p0,2} = 180$ MPa, in thickness	Placed in WL1	Placed in WL2	Placed in WL3
			mm, b ≤ 70 - h3 + 60 +	
h1 + 20			PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	
			b ≤ 700 mn h3 + 30 +	
h3 + 20 10 h2 +20 10		PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.	PAF1, WL3, DSL0, PL0, TDB4, P2, E1 and SP1.
2	Ø48,3 x X,X) mm, h2 ≤	
b + 20	110		0 mm, b ≤ d L ≤ 500 r	
Type LG 3	Brace 30 x 10 mm steel bar	PAF1, WL1, DSL0,	PAF1, WL2, DSL0,	PAF1, WL3,
Fixed	Fixed	PLO,	PLO, TDB3,	DSL0, PL0,
		TDB3, P2, E1	P2, E1	TDB4, P2, E1
		and SP1.	SP1.	and SP1.
Resistance to horizontal loads		NPD		
Resistance to bending		NPD		
Resistance to torsion		NPD		
Fixings:		Pass.		
		320 MPa		washers M6: fy
		Pressure force 2 kN	e for tigh	tening:
Temporary deflection (supports) -bending		NPD		

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Performance under vehicle impact

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Permanent deflection

-torsion

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NPD

NPD

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	flective sheeting ORALITE® 5710 Engineeri	ng Grade with the	following origi	inal dyed co	lours:
Colour	Name of product	Visibility chara	cteristics	Durability	
		Daylight Chromaticity & luminance factor 4.1.1.3. For black colours: 7.2.2.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.	Resistance to weathering 4.1.1.5. For black colours: 7.2.2.1.4
White	ORALITE [©] 5710-010 Engineering Grade	CR2	RA1	pass	pass
Yellow	ORALITE© 5710-020 Engineering Grade	CR2	RA1	pass	pass
Red	ORALITE [©] 5710-030 Engineering Grade	CR2	RA1	pass	pass
Blue	ORALITE© 5710-050 Engineering Grade	CR2	RA1	pass	pass
Green	ORALITE© 5710-060 Engineering Grade	CR2	RA1	pass	pass
Orange	ORALITE© 5710-035 Engineering Grade	CR1	RA1	pass	pass
Brown	ORALITE© 5710-080 Engineering Grade	CR2	RA1	pass	pass
4					
Retrore	flective sheeting ORALITE® 5710 engineeri	ng Grade with the	following Lette	ering Film:	
DI 1	ODALTES 5074 070 L III : 5'I	ND4			I
Black	ORALITE© 5071-070 Lettering Film	NR1	· ·	pass	pass
Yellow Red	ORALITE® 5018-020 Screen Printing ink	CR2	RA1	pass	pass
kea -	ORALITE© 5018-030 Screen Printing ink	CR2	RA1	pass	
					pass
blue	ORALITE [©] 5018-050 Screen Printing ink	CR2	RA1	pass	pass
blue Green	ORALITE [©] 5018-050 Screen Printing ink ORALITE [©] 5018-060 Screen Printing ink	CR2 CR2	RA1 RA1	pass pass	pass pass
blue Green	ORALITE [©] 5018-050 Screen Printing ink	CR2	RA1	pass	pass
blue Green Black Retrore yellow r	ORALITE® 5018-050 Screen Printing ink ORALITE® 5018-060 Screen Printing ink ORALITE® 5018-070 Screen Printing ink ORALITE® 5018-070 Screen Printing ink flective sheeting ORALITE® 5710 engineerietroreflective sheeting:	CR2 CR2 NR1 ng Grade with the	RA1 RA1 - following scre	pass pass pass en printing	pass pass pass colours on
blue Green Black Retrore	ORALITE® 5018-050 Screen Printing ink ORALITE® 5018-060 Screen Printing ink ORALITE® 5018-070 Screen Printing ink ORALITE® 5018-070 Screen Printing ink Flective sheeting ORALITE® 5710 engineeri	CR2 CR2 NR1	RA1 RA1 -	pass pass pass	pass pass pass
blue Green Black Retrore yellow r	ORALITE® 5018-050 Screen Printing ink ORALITE® 5018-060 Screen Printing ink ORALITE® 5018-070 Screen Printing ink ORALITE® 5018-070 Screen Printing ink flective sheeting ORALITE® 5710 engineeri etroreflective sheeting: ORALITE® 5018-030 Screen Printing ink	CR2 CR2 NR1 ng Grade with the	RA1 RA1 - following scre	pass pass pass en printing	pass pass pass colours on
blue Green Black Retrore yellow r	ORALITE® 5018-050 Screen Printing ink ORALITE® 5018-060 Screen Printing ink ORALITE® 5018-070 Screen Printing ink ORALITE® 5018-070 Screen Printing ink flective sheeting ORALITE® 5710 engineeri etroreflective sheeting: ORALITE® 5018-030 Screen Printing ink	CR2 CR2 NR1 ng Grade with the	RA1 RA1 - following scre	pass pass pass en printing	pass pass pass colours on

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Digital printing colours:

The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with the transparent laminate

ORALITE© 5062-000 Transparent Film.

	5062-000 Transparent Film.				
Digital Pr	inting Colour ORALITE [©] 5019 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© 5019-020 UV Digital Printing Ink and	CR2	RA1	nacc	2266
	ORALITE [©] 5062-000 Transparent Film	CKZ	KAI	pass	pass
Red	ORALITE [©] 5019-030 UV Digital Printing Ink and	CR2	RA1	nacc	nacc
	ORALITE© 5062-000 Transparent Film	CNZ	KAI	pass	pass
Blue	ORALITE [©] 5019-050 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE [©] 5062-000 Transparent Film	CINZ	IVAI	pass	pass
Green	ORALITE [©] 5019-060 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE [©] 5062-000 Transparent Film	CITZ	1011	pass	pass
Grey	ORALITE© 5019-625 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE© 5062-000 Transparent Film	CITZ	10.11	puss	pass
Black	ORALITE© 5019-070 UV Digital Printing Ink and	NR1	_	pass	pass
	ORALITE® 5062-000 Transparent Film				
	ur black is printed solely, this material combination i		used without th	ne transparent	laminate.
Black	ORALITE [©] 5019-070 UV Digital Printing Ink	NR1	-	pass	pass
	inting colour ORALITE® 5019i UV Digital Print	ing Ink		1	
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	CR2	RA1	pass	pass
	ORALITE [©] 5062-000 Transparent Film	CINZ	1011	pass	Pass
Red	ORALITE© 5019i-030 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE© 5062-000 Transparent Film	O. L.	1012	pass	Pass
Blue	ORALITE© 5019i-050 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE© 5062-000 Transparent Film	O. L.	10.12	pass	Pass
Green	ORALITE© 5019i-060 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE© 5062-000 Transparent Film	J.,		Puss	P 4455
Orange	ORALITE® 5019i-035 UV Digital Printing Ink and	CR1	RA1	pass	pass
_	ORALITE® 5062-000 Transparent Film			F	P 22.2.2
Brown	ORALITE® 5019i-080 UV Digital Printing Ink and	CR2	RA1	pass	pass
DI I	ORALITE® 5062-000 Transparent Film			P	P 3.23
Black	ORALITE [©] 5019i-070 UV Digital Printing Ink and ORALITE [©] 5062-000 Transparent Film	NR1	74	pass	pass

Clear protective overlay film:

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

Anti-Graffiti:

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

Original d	yed retroreflective sheeting ORALITE© 5710 Enginer	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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Colour	Name of product	Visibility chara	cteristics	Durability	
50.04.	Traine of product	Daylight	Coefficient of	Impact	Resistanc
		Chromaticity	retroreflection	resistance	to
		& luminance	4.1.1.4	4.1.2.	weatherin
		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			
White	ORALITE [©] 5810-010 High Intensity Grade	CR2	RA2	pass	pass
rellow	ORALITE© 5810-020 High Intensity Grade	CR2	RA2	pass	pass
Red	ORALITE [©] 5810-030 High Intensity Grade	CR2	RA2	pass	pass
Blue	ORALITE [©] 5810-050 High Intensity Grade	CR2	RA2	pass	pass
Green	ORALITE© 5810-060 High Intensity Grade	CR2	RA2	pass	pass
Brown	ORALITE [©] 5810-080 High Intensity Grade	CR2	RA2	pass	pass
_4					
	flective sheeting ORALITE® 5810 High Inten		he following Le	ettering Film	1:
Black	ORALITE© 5081-070 Lettering Film	NR1	-	pass	pass
	flective sheeting ORALITE® 5810 High Inten				
<u>rellow</u>	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
Retroret	flective sheeting ORALITE® 5810 High Inten	sity Grade with t	he following Sc	reen Printin	na Colours
	troreflective sheeting:				.9 00.00.0
/ellow	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
	flective sheeting ORALITE® 5810 High Inten	sity Grade with t	he following So	reen Printin	ig Colours
	etroreflective sheeting:	1	2.0		
Red	ORALITE© 5018-030 Screen Printing Ink	CR2	RA1	pass	pass
3lack	ORALITE© 5018-070 Screen Printing Ink	NR1	-	pass	pass

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Digital Printing Colours:

Digital Printing Colour ORALITE® 5019 UV Digital Printing Ink

The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkiet-System and is to be laminated with a transparent laminate.

	d-UV-Inkjet-System and is to be laminated with a tra				
	rinting with protective laminate ORALITE® 506	51-000 Transp	arent Film		
On white	ORALITE©5810-010 High Intensity Grade				
sheeting	and				
WBhite	ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
Yellow	ORALITE [©] 5019-020 UV Digital Printing Ink and	CR2	RA2	nacc	pass
TEIIOW	ORALITE© 5061-000 Transparent Film	CNZ	NAZ	pass	pass
Red	ORALITE [©] 5019-030 UV Digital Printing Ink and	CR2	RA2	pass	pass
Reu	ORALITE© 5061-000 Transparent Film	CNZ	NAZ	pass	pass
Blue	ORALITE© 5019-050 UV Digital Printing Ink and	CR2	RA2	nacc	nacc
Dide	ORALITE© 5061-000 Transparent Film	CINZ	IVAZ	pass	pass
Green	ORALITE [©] 5019-060 UV Digital Printing Ink and	CR2	RA2	pass	pass
diceri	ORALITE© 5061-000 Transparent Film	CINZ	IVAZ	pass	pass
Brown	ORALITE [©] 5019-080 UV Digital Printing Ink and	CR2	RA2	nacc	nacc
DIOWII	ORALITE© 5061-000 Transparent Film	CNZ	NAZ	pass	pass
Dark	ORALITE [©] 5019-625 UV Digital Printing Ink and	CR2	RA2	nacc	nacc
Green	ORALITE® 5061-000 Transparent Film	CKZ	KAZ	pass	pass
Grey	ORALITE© 5019-073 UV Digital Printing Ink and	CR2	RA2*	nacc	nacc
	ORALITE© 5061-000 Transparent Film		NAZ	pass	pass
*Coefficier	nt of retroreflection: Value for printed colours 70% of	of RA2			
Black	ORALITE© 5019-070 UV Digital Printing Ink and	NR1		nacc	nacc
DIACK	ORALITE© 5061-000 Transparent Film	INKT	-	pass	pass
Digital Pr	rinting with protective laminate ORALITE® 509	90 Anti-Dew Fi	lm:		
On white	rinting with protective laminate ORALITE® 509 ORALITE®5810-010 High Intensity Grade	90 Anti-Dew Fi	lm:		
		90 Anti-Dew Fi	lm:		
On white	ORALITE©5810-010 High Intensity Grade	O Anti-Dew Fi	lm:	pass	pass
On white sheeting	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and	CR2	RA2		•
On white sheeting White	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film			pass pass	pass pass
On white sheeting White Yellow	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and	CR2	RA2 RA2	pass	pass
On white sheeting White	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	CR2	RA2		•
On white sheeting White Yellow	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and	CR2 CR2 CR2	RA2 RA2 RA2	pass	pass pass
On white sheeting White Yellow	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	CR2	RA2 RA2	pass	pass
On white sheeting White Yellow Red Blue	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-050 UV Digital Printing Ink and	CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2*	pass pass pass	pass pass pass
On white sheeting White Yellow	ORALITE©5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-050 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	CR2 CR2 CR2	RA2 RA2 RA2	pass	pass pass
On white sheeting White Yellow Red Blue Green	ORALITE© 5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5090 Anti-Dew Film ORALITE© 5019-050 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-060 UV Digital Printing Ink and	CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2* RA2*	pass pass pass pass	pass pass pass pass
On white sheeting White Yellow Red Blue	ORALITE© 5810-010 High Intensity Grade and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5090 Anti-Dew Film ORALITE© 5019-050 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-060 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2*	pass pass pass	pass pass pass
On white sheeting White Yellow Red Blue Green	ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5090 Anti-Dew Film ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and	CR2 CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2* RA2*	pass pass pass pass pass	pass pass pass pass pass
On white sheeting White Yellow Red Blue Green Brown	ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2* RA2*	pass pass pass pass	pass pass pass pass
On white sheeting White Yellow Red Blue Green Brown Dark Green	ORALITE© 5090 Anti-Dew 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© 5090 Anti-Dew Film 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© 5019-080 UV Digital Printing Ink and ORALITE© 5019-625 UV Digital Printing Ink and	CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2* RA2* RA2* RA2* RA2	pass pass pass pass pass pass	pass pass pass pass pass pass
On white sheeting White Yellow Red Blue Green Brown Dark	ORALITE© 5090 Anti-Dew 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© 5019-030 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© 5019-625 UV Digital Printing Ink and ORALITE© 5019-625 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	CR2 CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2* RA2*	pass pass pass pass pass	pass pass pass pass pass
On white sheeting White Yellow Red Blue Green Brown Dark Green Grey	ORALITE© 5090 Anti-Dew Film ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-050 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-060 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-080 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-625 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-073 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	CR2	RA2 RA2 RA2* RA2* RA2* RA2 RA2 RA2 RA2	pass pass pass pass pass pass	pass pass pass pass pass pass
On white sheeting White Yellow Red Blue Green Brown Dark Green Grey *Coeffici	ORALITE© 5090 Anti-Dew 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© 5019-030 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© 5019-625 UV Digital Printing Ink and ORALITE© 5019-625 UV Digital Printing Ink and 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© 5090 Anti-Dew Film ent of retroreflection: Value for printed col	CR2	RA2 RA2 RA2* RA2* RA2* RA2 RA2 RA2 RA2	pass pass pass pass pass pass	pass pass pass pass pass pass
On white sheeting White Yellow Red Blue Green Brown Dark Green Grey	ORALITE© 5090 Anti-Dew Film ORALITE© 5090 Anti-Dew Film ORALITE© 5019-020 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5019-030 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-050 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-060 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-080 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-625 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film ORALITE© 5019-073 UV Digital Printing Ink and ORALITE© 5090 Anti-Dew Film	CR2	RA2 RA2 RA2* RA2* RA2* RA2 RA2 RA2 RA2	pass pass pass pass pass pass	pass pass pass pass pass pass

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On white	inting with protective laminate ORALITE [®] 509 ORALITE [®] 5810-010 High Intensity Grade				
sheeting	and				
White	ORALITE© 5095 Anti-Graffitti Film	CR2	RA2	pass	pass
Yellow	ORALITE [©] 5019-020 UV Digital Printing Ink and ORALITE [©] 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Red	ORALITE [©] 5019-030 UV Digital Printing Ink and ORALITE [©] 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Blue	ORALITE [©] 5019-050 UV Digital Printing Ink and ORALITE [©] 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
Green	ORALITE [©] 5019-060 UV Digital Printing Ink and ORALITE [©] 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
Brown	ORALITE [©] 5019-080 UV Digital Printing Ink and ORALITE [©] 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Grey	ORALITE© 5019-073 UV Digital Printing Ink and ORALITE© 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
*Coefficier	nt of retrorefelction: Value for printed colours 70% o	f RA2			
Black	ORALITE [©] 5019-070 UV Digital Printing Ink and ORALITE [©] 5095 Anti-Graffiti 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 Printing Colour ORALITE® 5019i UV Digital Printing Ink:

The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with the transparent laminate

ORALITE	° 5061-000	Transparent Film
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On white	ORALITE [©] 5810-010 High Intensity Grade				
sheeting	and				
White	ORALITE [©] 5061-000 Transparent Film	CR2	RA2	pass	pass
Yellow	ORALITE [©] 5019i-020 UV Digital Printing Ink and ORALITE [©] 5061-000 Transparent Film	CR2	RA2	pass	pass
Red	ORALITE [©] 5019i-030 UV Digital Printing Ink and ORALITE [©] 5061-000 Transparent Film	CR2	RA2	pass	pass
Blue	ORALITE [©] 5019i-050 UV Digital Printing Ink and ORALITE [©] 5061-000 Transparent Film	CR2	RA2	pass	pass
Green	ORALITE© 5019i-060 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE© 5019i-080 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark Green	ORALITE© 5019i-625 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
Grey	ORALITE© 5019i-073 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	CR2	RA2	pass	pass
Black	ORALITE© 5019i-070 UV Digital Printing Ink and ORALITE© 5061-000 Transparent Film	NR1	-	pass	pass

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Clear ov	erlay film with special function:				
	rlay films with special function (anti-dew and anti-	araffiti) are always	admitted in comb	oination with a	a dved
	and a colouring process.	J. W			~ w,
Anti Dev					
	sheeting and the combination with coloured lamin-	ates is accepted to	be processed with	th the clear o	verlay film
	function ORALITE [©] 5090 Andi-Dew film for the follo		·		,
	troreflective Sheeting:				
White	ORALITE© 5810-010 High Intensity Grade	CR2	DAG	2200	2266
Write	and ORALITE [©] 5090 Anti-Dew film	CRZ	RA2	pass	pass
Yellow	ORALITE [©] 5810-020 High Intensity Grade	CR2	RA2	2200	2266
Tellow	and ORALITE [©] 5090 Anti-Dew film	CRZ	KAZ	pass	pass
Red	ORALITE© 5810-030 High Intensity Grade	CR2	RA2	nacc	nacc
Reu	and ORALITE [©] 5090 Anti-Dew film	CRZ	KAZ	pass	pass
Blue	ORALITE© 5810-050 High Intensity Grade	CR2	RA2	nacc	nacc
Diue	and ORALITE [©] 5090 Anti-Dew film	CNZ	KAZ	pass	pass
	trofeflective Sheeting ORALITE® 5810 High I	Intensity Grade v	with Coloured L	aminate:	
Yellow	ORALITE [©] 5061-020 Transparent Film	CR2	RA2	pass	pass
	and ORALITE® 5090 Anti-Dew film				
Red	ORALITE© 5061-030 Transparent Film	CR2	RA2	nacc	nacc
	and ORALITE© 5090 Anti-Dew film	CINZ	IVAZ	pass	pass
Blue	ORALITE© 5061-050 Transparent Film	CR2	RA2	nacc	nacc
	and ORALITE© 5090 Anti-Dew film	CNZ	NAZ	pass	pass
Dyed Re	troreflective Sheeting ORALITE® 5810 High I	Intensity Grade v	with Lettering f	ilm:	
Black	ORALITE© 5081-070 Lettering Film	NR1	_	pass	nacc
DidCK	and ORALITE [©] 5090 Anti-Dew film	MIXI		pass	pass
Anti-Gra					
	sheeting and the combination with coloured lamin			th the clear o	verlay film
	graffiti function ORALITE [©] 5095 Anti Graffiti Film fo	or the following col	lours.		
Dyed Re	troreflective Sheeting:			1	
White	ORALITE© 5810-010 High Intensity Grade	CR2	RA2	pass	pass
	and ORALITE® 5095 Anti-Graffiti Film				
Yellow	ORALITE® 5810-020 High Intensity Grade	CR2	RA2	pass	pass
	and ORALITE® 5095 Anti-Graffiti Film				
Red	ORALITE® 5810-030 High Intensity Grade	CR2	RA2	pass	pass
	and ORALITE® 5095 Anti-Graffiti Film				
Blue	ORALITE® 5810-050 High Intensity Grade	CR2	RA2	pass	pass
	and ORALITE® 5095 Anti-Graffiti Film		7	'	•
	troreflective Sheeting ORALITE® 5810 High I	Intensity Grade v	with Coloured L	amınate:	
Yellow	ORALITE© 5061-020 Transparent Film	CR2	RA2	pass	pass
	and ORALITE® 5095 Anti-Graffiti Film	_			
Red	ORALITE® 5061-030 Transparent Film	CR2	RA2	pass	pass
Divis	and ORALITE® 5095 Anti-Graffiti Film				•
Blue	ORALITE® 5061-050 Transparent Film	CR2	RA2	pass	pass
	and ORALITE [©] 5095 Anti-Graffiti Film				•
Dura d D	tuoreflective Checking ODALITE® FOLCALIST	Intensity Cost		-:I	
	troreflective Sheeting ORALITE® 5810 High I	intensity Grade \	with Lettering F	·IIM:	
Black	ORALITE [©] 5081-070 Lettering Film and ORALITE [©] 5095 Anti-Graffiti Film	NR1	-	pass	pass
1	I and Oralite 2022 Anti-Glanii Filli	i		1	

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External illumination:	
mean illuminance,	NPD
uniformity of illuminance	NPD
Corrosion resistence	
Steel pipes and fins	Minimum S235 SP1 The pipe and fins are after manufacturing hot dip galvanized to a minimum of 60µm
Screws, nuts and washers	M6: fy ≥ 320 MPa Stainless steel SP2 or anodized aluminum SP1
Aluminium plate	Minimum Rp0,2 ≥180 MPa SP1 Lacquered Al-plate on exposed side if any
Resistence to penetration of dust and water	NPD The product cannot be provided with compartments for electrical equipment

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Annex 2

TECHNICAL BASIS

Title	Date
Infra Group danmark ApS	
Calculation of minor traffic signs (ITC) Shapes and sizes for signs mounted in gallows type LG Revision 02	March 2018
Retroreflective Sheetings 5710 Engineering grade: 0913-CPD-2009/001 Annex	2009-03-17 2018-02-28
Retroreflective Sheeting Oralite 5810 High Intensity grade: 0913-CPD-2009/035 Annex	2012-06-27 2018-02-28
Addendum to Calculation of minor traffic signs (ITC) Shapes and Sizes for Signs Mounted in gallows Type LG 1 st . edition	December 2017

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