

#### **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

#### Gallow 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: 2019-08-22.

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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 2018-11-21)

This certificate was first issued 2018-03-07.

Per Lyster Andersen Responsible for evaluation

Allan Laursen on Responsible for certification decision

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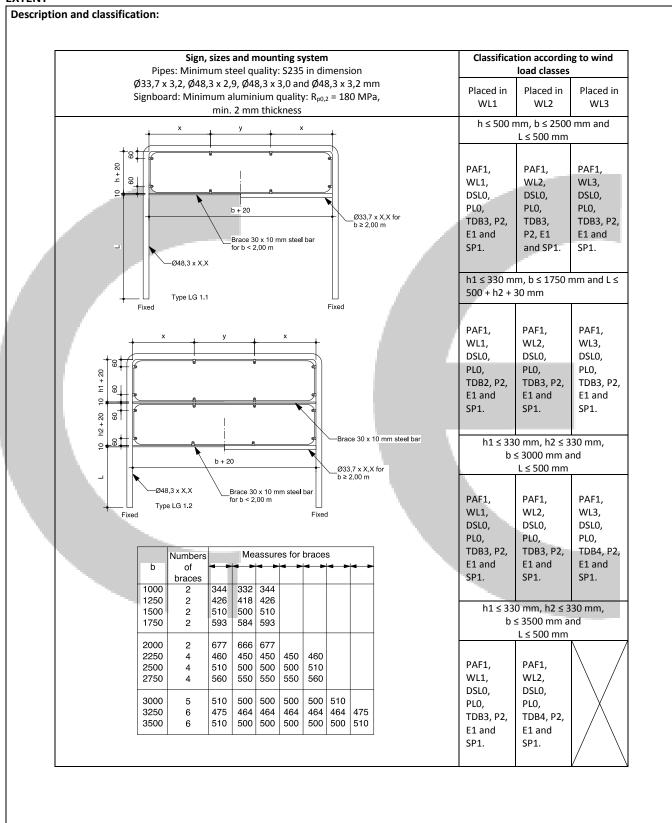
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#### Annex 1

#### **EXTENT**



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Sign, sizes and mounting system Pipes: Minimum steel quality: S235 in dimension		ion accordin load classes	
Ø33,7 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,	Placed in WL1	Placed in WL2	Placed in WL3
min. 2 mm thickness		n and L≤h1 ·	
07 08 110 b + 20 = d + 20 Brace 30 x 10 mm steel bar	PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.  d ≤ 700 and L ≤  PAF1, WL1, DSL0, PL0, TDB3, P2, E1 and SP1.  d ≤ 700	PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.  PAF1, WL2, DSL0, PL0, TDB3, P2, E1 and SP1.  PAF1, WL2, 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. 00 mm PAF1, WL3, DSL0, PL0, TDB3, P2, E1 and SP1.



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Prod. Reg. Nr. 7023



Pipes Minimum steel qualify: \$232 is dimension   Sa37 x 32, 9463 x 32, 93 and 946 x 33 x 32 and 946 x 34 x 34 and 94 x 34 x 34 and 94 x 34 x	Sign, sizes and mounting system	Classificat	ion accordin	g to wind	
Signboard: Minimum quality Rox = 180 MPa,   MIL   M					
h2+h3+60+500 mm	Signboard: Minimum aluminium quality: R <sub>p0,2</sub> = 180 MPa,	WL1	WL2	WL3	
Will					
PLO, PLO, TD83, P2, TD83, TD84, P2, E1 and SP1. and SP1. sol - Sp		The state of the s			
TDB3, P2 is and SP1.    Pafi   Pafi		•			
Et and sp1. sp1. and sp1. sp1. h1 s 700 mm, b2 s 300 mm, b 5 700 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 30 + 500 mm and L ≤ h3 + 300 mm, b2 s 300 mm, b2 s 300 mm and L ≤ h3 + 300 mm, b2 s 300 mm and L ≤ h3 + 300 mm, b2 s 300 mm and L ≤ h3 + 300 mm and L ≤ h3		· ·		-	
SP1.   and SP1.   SP1.					
NPD					
PAF1, W12, W13, DS10, DS10, P10, P10, P10, P10, P10, P10, P10, P			b ≤ 700 mm		
DSLO, PLO, PLO, PLO, PLO, PLO, PLO, PLO, P					
DSLO,   PLO,   PLO,   TDB3, P2,   E1 and   SP1.	50	· ·		-	
PLO,   PLO,   TDB3, P2,   E1 and   SP1.	+ ZZ			-	
Tibes, processes   Tibes, pro				-	
Resistance to horizontal loads  Resistance to horizontal loads  Resistance to bending  Resistance to torsion  Resistance to torsion  Resistance to including and SP1.  Resistan					
Resistance to horizontal loads  Resistance to horizontal loads  Resistance to bending  Resistance to torsion  Resistance to torsion  Resistance to force for tightening:  2 kN  Temporary deflection (supports)  Loss of the permanent deflection  Permanent deflection  NPD  SP1. and SP1. SP1. b1 x 700 mm, h2 x 300 mm, h3 x 300 mm, h3 x 300 mm, h3 x 300 mm, h2 x 300 mm, h3 x 300 mm, h		E1 and		E1 and	
Resistance to horizontal loads  Resistance to bending  Resistance to torsion  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports)  -bending  -torsion  Permanent deflection  NPD    110	93	SP1.	and SP1.	SP1.	
Resistance to horizontal loads  Resistance to bending  Resistance to torsion  Fixings:  Pass.  Pass.  Resistance to bending  Resistance to torsion  Pass.  Resistance to torsion  Pass.  Resistance to torsion  NPD  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa  Pressure force for tightening: 2 kN  NPD  Temporary deflection (supports) -bending -torsion  Permanent deflection					
Brace 30 x 10 mm steel bar  Type LG 3  Fixed  Fixed  Fixed  Brace 30 x 10 mm steel bar  PAF1, WL1, DSL0, DSL0, DSL0, DSL0, PL0, TDB3, P2, E1 and P2, E1 and SP1.  Resistance to horizontal loads  Resistance to bending  NPD  Resistance to torsion  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection					
Resistance to horizontal loads  Resistance to torsion  Fixings:  PAF1, WL1, WL2, WL3, DSL0, DSL0, DSL0, PL0, PL0, PL0, PL0, PL0, PL0, PL0, P					
Type LG 3  Fixed  Fixe		u u	14 E 3 300 IIII		
Type LG 3  Fixed  Fixe					
Fixed  Fixed    DSLO, PLO, PLO, PLO, TDB3, P2, TDB3, TDB4, P2, E1 and SP1.   E1 and S		The state of the s	•		
Resistance to horizontal loads  Resistance to bending  Resistance to torsion  NPD  Resistance to torsion  NPD  Fixings:  PLO, TDB3, P2, E1 and SP1.  NPD  Resistance to bending  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD				-	
Resistance to horizontal loads  Resistance to bending  Resistance to torsion  NPD  Resistance to torsion  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD	Fixed Fixed			-	
Resistance to horizontal loads  Resistance to bending  Resistance to torsion  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD			•		
Resistance to horizontal loads  Resistance to bending  Resistance to torsion  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD					
Resistance to bending  Resistance to torsion  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD		SP1.	and SP1.	SP1.	
Resistance to bending  Resistance to torsion  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD					
Resistance to bending  Resistance to torsion  NPD  Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD		NDD			
Resistance to torsion  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD		`			
Fixings:  Pass.  M6 Screws, nuts and washers M6: fy ≥ 320 MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD	Resistance to bending	NPD			
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Resistance to torsion	NPD			
MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD	Fixings:	Pass.			
MPa Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD		M6 Scraws nu	ts and was	thers MA: fu	v > 330
Pressure force for tightening: 2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD			.s and was	oricis ivio, ly	, = 320
2 kN  Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD			for tial-te	ning:	
Temporary deflection (supports) -bending -torsion  Permanent deflection  NPD  NPD			ior tignter	mig:	
-bending -torsion  Permanent deflection  NPD	Temporary deflection (supports)				
-torsion Permanent deflection NPD		INFU			
Permanent deflection NPD					
		NPD			
Terrormance ander venicle impact   NFD					
· · · · · · · · · · · · · · · · · · ·	r enormance under venicie impact	INFU			

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Retrorefle	5710 Engineering Grade: ctive sheeting ORALITE® 5710 Engineering Grade	with the following origi	nal dyed colours:		
Colour	our Name of product Visibility characteristics Durability				
		Daylight Chromaticity & luminance factor 4.1.1.3. For black colours: 7.2.2.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.	Resistance to weathering 4.1.1.5. For black colours: 7.2.2.1.4
White	ORALITE <sup>©</sup> 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
Brown	Oliveria 3710 000 Engineering ordae	ONE	1012	ризэ	puss
Retrorefle	ctive sheeting ORALITE® 5710 engineering Grade	with the following Lette	ering Film:		
Black	ORALITE® 5071-070 Lettering Film	NR1	<del></del>	pass	pass
Red	ORALITE® 5018-020 Screen Printing ink ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-050 Screen Printing ink	CR2	RA1	pass	pass
blue	ORALITE <sup>©</sup> 5018-050 Screen Printing ink	CR2	RA1	pass	pass
Green	ORALITE® 5018-060 Screen Printing ink	CR2	RA1	pass	pass
Black	ORALITE <sup>©</sup> 5018-070 Screen Printing ink	NR1		pass	pass
	ctive sheeting ORALITE® 5710 engineering Grade	with the following scree	en printing colour	s on yellow re	troreflective
sheeting:					
Red	ORALITE® 5018-030 Screen Printing ink	CR2	RA1	pass	pass
	ORALITE® 5018-030 Screen Printing ink ORALITE® 5018-070 Screen Printing ink	CR2 NR1	RA1	pass pass	pass pass

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	ting colours:				
	printing is processed on white retroreflective sheeting v		nting system AGFA	ANAPURNA M2	:050 High-
	nkjet-System and is to be laminated with the transpare	nt laminate			
	062-000 Transparent Film.				
	ting Colour ORALITE® 5019 UV Digital Printing Ink	1			
On white	ORALITE <sup>©</sup> 5710-010 Engineering Grade				
sheeting	and				
White	ORALITE <sup>©</sup> 5062-000 Transparent Film	CR2	RA1	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and	CR2	RA1	nacc	nacc
	ORALITE® 5062-000 Transparent Film	CNZ	NAI	pass	pass
Red	ORALITE <sup>©</sup> 5019-030 UV Digital Printing Ink and	CD2	D A 1	nacc	nacc
	ORALITE <sup>©</sup> 5062-000 Transparent Film	CR2	RA1	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and	CD2	D.4.4		
ļ	ORALITE <sup>©</sup> 5062-000 Transparent Film	CR2	RA1	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and		2.4		
	ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Grey	ORALITE <sup>©</sup> 5019-625 UV Digital Printing Ink and				
11	ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Black	ORALITE® 5019-070 UV Digital Printing Ink and				
5.001	ORALITE® 5062-000 Transparent Film	NR1	-	pass	pass
If the colou	r black is printed solely, this material combination is ad	mitted to be used a	without the transr	arent laminate	
Black	ORALITE® 5019-070 UV Digital Printing Ink	NR1	Without the transp	pass	pass
DIACK	ONALITE 3019-070 0V Digital Filliting link	IVIXI		μασσ	pass
Digital prin	ting colour ORALITE <sup>©</sup> 5019i UV Digital Printing Ink				
		_			
On white	ORALITE <sup>©</sup> 5710-010 Engineering Grade		V		
sheeting	and				
White	ORALITE® 5062-000 Transparent Film	CR2	RA1	pass	pass
Yellow	ORALITE <sup>©</sup> 5019i-020 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE <sup>©</sup> 5062-000 Transparent Film			pass	P 400
Red	ORALITE® 5019i-030 UV Digital Printing Ink and	CR2	RA1	pass	pass
	ORALITE <sup>©</sup> 5062-000 Transparent Film	CIVE	10.11	puss	puss
Blue	ORALITE® 5019i-050 UV Digital Printing Ink and	CR2	RA1	nacc	2250
	ORALITE <sup>©</sup> 5062-000 Transparent Film	CNZ	IVAI	pass	pass
Green	ORALITE <sup>©</sup> 5019i-060 UV Digital Printing Ink and	CD2	DA1	2000	2255
	ORALITE <sup>©</sup> 5062-000 Transparent Film	CR2	RA1	pass	pass
Orange	ORALITE® 5019i-035 UV Digital Printing Ink and	0.0			
	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				
Didek	ORALITE® 5062-000 Transparent Film	NR1	-	pass	pass
	Chaire 3002 000 Transparent Tillin				
Class susta	stine energy films				
•	ctive overlay film:				
	ctive overlay films (Anti-Graffiti) are always admitted in	Combination with	retrorenective sne	eeting and a con	buring proce
Anti-Graffit		ODALITE® 5040:			
	I dyed retroreflective sheeting with the screen-printing		accepted to be lan	ninated with the	ciear
	overlay film ORALITE® 5095 Anti-Graffitti Film for the fo				
	ed retroreflective sheeting ORALITE <sup>©</sup> 5710 Enginering G	irade with screen-p	orinting ORALITE®	5018	
Red	ORALITE® 5018-030 Screen Printing Ink and	CR2	RA1	pass	pass
	ORALITE <sup>©</sup> 5095 Anti-Graffiti Film	J., 2	10.12	P433	P433
Blue	ORALITE® 5018-050 Screen Printing Ink and	CR2	RA1	nacc	nace
	ORALITE <sup>©</sup> 5095 Anti-Graffiti Film	CNZ	LWI	pass	pass
	ORALITE® 5018-070 Screen Printing Ink and				pass
Black	ONALITE 3010 070 Screen Finding link and	NR1		pass	

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	5810 High Intensity Grade: ective sheeting ORALITE® 5810 High Intensity Grad	e with the following ori	ginal dyed colour	s:	
Colour	Name of product	Visibility charac	teristics	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 t weathering 4.1.1.5. For black colours: 7.2.2.1.4
White	ORALITE© 5810-010 High Intensity Grade	CR2	RA2	pass	pass
Yellow	ORALITE <sup>©</sup> 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 <sup>©</sup> 5810-060 High Intensity Grade	CR2	RA2	pass	pass
Brown	ORALITE® 5810-080 High Intensity Grade	CR2	RA2	pass	pass
Retrorefle	ective sheeting ORALITE <sup>©</sup> 5810 High Intensity Grad	e with the following Let	tering Film:		
Black	ORALITE® 5081-070 Lettering Film	NR1	-	pass	pass
Retrorefle	ective sheeting ORALITE <sup>©</sup> 5810 High Intensity Grad	e with the following Co	loured Laminates	:	
Yellow	ORALITE <sup>©</sup> 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 <sup>©</sup> 5061-625 Transparent Film	CR1	RA2	pass	pass
Retrorefle	ective sheeting ORALITE® 5810 High Intensity Grad	e with the following Scr	een Printing Colo	urs on white r	etroreflective
Yellow	ORALITE <sup>©</sup> 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
Retrorefle sheeting:	ective sheeting ORALITE® 5810 High Intensity Grad	e with the following Scr	een Printing Colo	urs on yellow	retroreflective
Red	ORALITE <sup>©</sup> 5018-030 Screen Printing Ink	CR2	RA1	pass	pass
Black	ORALITE® 5018-070 Screen Printing Ink	NR1		pass	pass

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	Iting with protective laminate ORALITE® 5061-000 Tran ORALITE®5810-010 High Intensity Grade	isparent riiii			
sheeting	and				
WBhite	ORALITE <sup>©</sup> 5061-000 Transparent Film	CR2	RA2	pass	pass
Yellow	ORALITE <sup>©</sup> 5019-020 UV Digital Printing Ink and	CR2	RA2	pass	pass
1011011	ORALITE® 5061-000 Transparent Film	CITE	10.12		puss
Red	ORALITE® 5019-030 UV Digital Printing Ink and	CR2	RA2	pass	pass
	ORALITE® 5061-000 Transparent Film	_			
Blue	ORALITE® 5019-050 UV Digital Printing Ink and	CR2	RA2	pass	pass
	ORALITE® 5061-000 Transparent Film				
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
	ORALITE® 5019-080 UV Digital Printing Ink and				
Brown	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark	ORALITE® 5019-625 UV Digital Printing Ink and				
Green	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
	ORALITE® 5019-073 UV Digital Printing Ink and		2424		
Grey	ORALITE© 5061-000 Transparent Film	CR2	RA2*	pass	pass
*Coefficier	t of retroreflection: Value for printed colours 70% of RA	\2			•
Black	ORALITE <sup>©</sup> 5019-070 UV Digital Printing Ink and	NR1		nacc	nacc
DIACK	ORALITE <sup>©</sup> 5061-000 Transparent Film	INUT	-	pass	pass
Digital Prir	iting with protective laminate ORALITE® 5090 Anti-Dev	v Film:	_		
	ting with protective laminate ORALITE® 5090 Anti-Dev ORALITE®5810-010 High Intensity Grade	v Film:			
<b>Digital Prir</b> On white sheeting	ORALITE®5810-010 High Intensity Grade and	v Film:			
On white sheeting White	ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew Film	v Film:	RA2	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			
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		RA2 RA2	pass pass	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	CR2		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		
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® 5090 Anti-Dew Film ORALITE® 5019-050 UV Digital Printing Ink and	CR2	RA2	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® 5090 Anti-Dew Film ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2 CR2 CR2	RA2	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 ORALITE® 5090 Anti-Dew Film ORALITE® 5019-060 UV Digital Printing Ink and	CR2 CR2 CR2	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 ORALITE® 5090 Anti-Dew Film 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*	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® 5019-030 UV Digital Printing Ink and 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	CR2 CR2 CR2 CR2	RA2 RA2 RA2*	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® 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® 5090 Anti-Dew Film	CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2* RA2*	pass pass pass pass	pass pass pass
On white sheeting White Yellow  Red  Blue  Green  Brown  Dark	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 ORALITE® 5090 Anti-Dew Film ORALITE® 5019-625 UV Digital Printing Ink and	CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2* RA2*	pass pass pass pass	pass pass pass
On white sheeting White Yellow  Red  Blue  Green  Brown  Dark 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® 5019-050 UV Digital Printing Ink and ORALITE® 5019-060 UV Digital Printing Ink and 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	CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2* RA2* RA2* RA2*	pass pass pass pass pass	pass pass pass pass
On white sheeting White Yellow  Red  Blue  Green  Brown  Dark	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® 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® 5090 Anti-Dew Film  ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5019-073 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  Dark Green  Grey	ORALITE® 5810-010 High Intensity Grade and  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® 5090 Anti-Dew Film  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® 5090 Anti-Dew Film  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® 5090 Anti-Dew Film	CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2* RA2* RA2* RA2 RA2	pass pass pass pass pass pass pass	pass pass pass pass
On white sheeting White Yellow  Red  Blue  Green  Brown  Dark Green  Grey	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  ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film  ORALITE® 5090 Anti-Dew Film	CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	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® 5810-010 High Intensity Grade and  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® 5090 Anti-Dew Film  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® 5090 Anti-Dew Film  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® 5090 Anti-Dew Film	CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2* RA2* RA2* RA2 RA2	pass pass pass pass pass pass pass	pass pass pass pass pass

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On white	ORALITE <sup>©</sup> 5810-010 High Intensity Grade				
sheeting	and				
White	ORALITE <sup>©</sup> 5095 Anti-Graffitti Film	CR2	RA2	pass	pass
N. 11	ORALITE <sup>©</sup> 5019-020 UV Digital Printing Ink and			·	·
Yellow	ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
	ORALITE <sup>©</sup> 5019-030 UV Digital Printing Ink and				
Red	ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
	ORALITE <sup>©</sup> 5019-050 UV Digital Printing Ink and				
Blue	ORALITE <sup>©</sup> 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
	ORALITE© 5019-060 UV Digital Printing Ink and				
Green	ORALITE® 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
	ORALITE® 5019-080 UV Digital Printing Ink and				
Brown	ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
	ORALITE® 5019-073 UV Digital Printing Ink and				
Grey	ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
*Coefficier	nt of retrorefelction: Value for printed colours 70% of R	A2			
	ORALITE® 5019-070 UV Digital Printing Ink and				
Black	ORALITE® 5095 Anti-Graffiti Film	NR1	-	pass	pass
If the color	ur Black is printed solely, this material combination is ac	Imitted to be used	without the transi	l narent laminate	1
		NR1	-	pass	pass
Black					
The digital Speed-UV-	ORALITE® 5019-070 UV Digital Printing Ink  nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare	with the digital prin	I Iting system AGFA	,	
<b>Digital Prin</b> The digital Speed-UV- ORALITE®	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film	with the digital prin	iting system AGFA	,	
Digital Prin The digital Speed-UV- ORALITE® On white	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film ORALITE® 5810-010 High Intensity Grade	with the digital prin	iting system AGFA	,	
Digital Prin The digital Speed-UV- ORALITE <sup>©</sup> On white sheeting	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film ORALITE® 5810-010 High Intensity Grade and	with the digital prinent laminate		,	
Digital Prin The digital Speed-UV- ORALITE® On white	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film ORALITE® 5810-010 High Intensity Grade and ORALITE® 5061-000 Transparent Film	with the digital prin	nting system AGFA	,	
Digital Prir The digital Speed-UV- ORALITE® On white sheeting White	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film ORALITE® 5810-010 High Intensity Grade and ORALITE® 5061-000 Transparent Film ORALITE® 5019i-020 UV Digital Printing Ink and	with the digital prinent laminate  CR2	RA2	ANAPURNA M.	2050 High-
Digital Prin The digital Speed-UV- ORALITE <sup>©</sup> On white sheeting	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film ORALITE® 5810-010 High Intensity Grade and ORALITE® 5061-000 Transparent Film ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	with the digital prinent laminate		ANAPURNA M	2050 High-
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Digital Prir The digital Speed-UV- ORALITE® On white sheeting White	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film  ORALITE® 5810-010 High Intensity Grade and  ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	with the digital prinent laminate  CR2	RA2	ANAPURNA M.	2050 High-
Digital Prir The digital Speed-UV- ORALITE® On white sheeting White Yellow	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film  ORALITE® 5810-010 High Intensity Grade and  ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film  ORALITE® 50619i-050 UV Digital Printing Ink and	with the digital prinent laminate  CR2  CR2  CR2	RA2 RA2 RA2	pass pass pass	2050 High- pass pass
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Digital Prir The digital Speed-UV- ORALITE® On white sheeting White Yellow	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film  ORALITE® 5810-010 High Intensity Grade and  ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5019i-060 UV Digital Printing Ink and	with the digital prinent laminate  CR2  CR2  CR2	RA2 RA2 RA2	pass pass pass	2050 High-  pass  pass  pass  pass
Digital Prir The digital Speed-UV- ORALITE® On white sheeting White Yellow Red Blue Green	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film  ORALITE® 5810-010 High Intensity Grade and  ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5019i-080 UV Digital Printing Ink and	with the digital prinent laminate  CR2 CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2 RA2	pass pass pass pass pass	2050 High-  pass  pass  pass  pass  pass
Digital Prir The digital Speed-UV- ORALITE® On white sheeting White Yellow Red	nting Colour ORALITE® 5019i UV Digital Printing Ink: printing is processed on white retroreflective sheeting Inkjet-System and is to be laminated with the transpare 5061-000 Transparent Film  ORALITE® 5810-010 High Intensity Grade and  ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film  ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5019i-060 UV Digital Printing Ink and	with the digital priment laminate  CR2 CR2 CR2 CR2 CR2	RA2 RA2 RA2	pass pass pass pass	2050 High-  pass  pass  pass  pass  pass
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	lay films with special function (anti-dew and anti-graf process.	•		•	
Anti Dew:					
he dyed s	heeting and the combination with coloured laminate	s is accepted to be pr	ocessed with the cl	ear overlay film	n anti-dew
unction O	RALITE <sup>©</sup> 5090 Andi-Dew film for the following colour	s:			
Dyed Retro	oreflective Sheeting:				
White	ORALITE® 5810-010 High Intensity Grade	CR2	RA2	pass	pass
VVIIIC	and ORALITE <sup>©</sup> 5090 Anti-Dew film	CITZ	IVAZ	pass	pass
Yellow	ORALITE <sup>©</sup> 5810-020 High Intensity Grade	CR2	RA2	pass	pass
1010	and ORALITE <sup>©</sup> 5090 Anti-Dew film	- Citiz	10.12	pass	Puss
Red	ORALITE® 5810-030 High Intensity Grade	CR2	RA2	pass	pass
	and ORALITE® 5090 Anti-Dew film				
Blue	ORALITE® 5810-050 High Intensity Grade	CR2	RA2	pass	pass
	and ORALITE® 5090 Anti-Dew film			·	
	ofeflective Sheeting ORALITE® 5810 High Intensity G	rage with Coloured L	-aminate:		
Yellow	ORALITE® 5061-020 Transparent Film and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
D. d	ORALITE® 5090 Anti-Dew film  ORALITE® 5061-030 Transparent Film				
Red	and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Blue	ORALITE® 5061-050 Transparent Film	_			
blue	and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
	and ONALITE 3030 Anti-Dew min				
Dved Retri	oreflective Sheeting ORALITE® 5810 High Intensity G	rade with Lettering f	ilm·		
Dyeu Keti	ORALITE® 5081-070 Lettering Film	lade with Lettering i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Black	•	NR1			
Diuck	and ORALITE® 5000 Anti-Dow film	INKI	-	pass	pass
Black	and ORALITE® 5090 Anti-Dew film	INKI	-	pass	pass
		INKI	-	pass	pass
Anti-Graff	iti:		- cocessed with the cl		·
<b>Anti-Graff</b> The dyed s	iti: heeting and the combination with coloured laminate	s is accepted to be pr	rocessed with the cl		·
<b>Anti-Graff</b> i The dyed s graffiti fun	iti: heeting and the combination with coloured laminate ction ORALITE <sup>©</sup> 5095 Anti Graffiti Film for the followi	s is accepted to be pr	rocessed with the cl		·
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The certificate shall be reproduced in extenso





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	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	Mayab 2010
	March 2018
Retroreflective Sheetings 5710 Engineering grade: 0913-CPD-2009/001	2009-03-17
Annex	2018-02-23
Retroreflective Sheeting Oralite 5810 High Intensity grade: 0913-CPD-2009/035	2012-06-27
Annex	2018-02-23
Addendum to Calculation of minor traffic signs (ITC) Shapes and Sizes for Signs	
Mounted in gallows Type LG 1 <sup>st</sup> . edition	December 2017