

YDEEVNEDEKLARATION nr. IG10024

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| 1. Byggevaretype: | Faste lodrette trafikskilte |
| 2. Byggevareidentifikation: | Færdselstavler |
| 3. Byggevarens tilsigtede anvendelse: | Stationære, vertikale færdselstavler |
| 4. Fabrikantens navn og adresse: | INFRA GROUP DANMARK ApS
Højgårdsvej 11
5750 Ringe |
| 5. Navn og kontaktadresse på den bemyndigede repræsentant: | Ikke relevant |
| 6. Systemet eller systemerne til vurdering og kontrol af konstansen af byggevarens ydeevne (AVCP): | System 1 |
| 7. Harmoniseret standard:
Notificeret organ: | EN 12899-1:2007
DBI Certification A/S, Notified Body no. 2531 har udført og udfører indledende inspektion af fabriksanlæg og egen produktionskontrol, samt kontinuerlig overvågning, vurdering og evaluering af fabrikens egenkontrol (FPC) efter system 1. |
| 8. Certifikat of Conformity: | 2531-CPR-CSC10024 |

9. Deklareret ydeevne:

Description and classification:					
Resistance to horizontal loads			Value/description/class/reference		
Fixings			NPD		
Wind actions			NPD		
Temporary deflection-bending			NPD		
Dynamic load from snow clearance			NPD		
Point loads			NPD		
Permanent deflection			NPD		
Partial safety factor			NPD		
ORALITE[®] 5710 Engineering Grade:					
Retroreflective sheeting ORALITE[®] 5710 Engineering Grade with the following original dyed colours:					
Colour	Name of product	Visibility characteristics		Durability	
		Daylight Chromaticity & luminance factor 4.1.1.3. For black colours: 7.2.2.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.	Resistance to weathering 4.1.1.5. For black colours: 7.2.2.1.4
White	ORALITE [®] 5710-010 Engineering Grade	CR2	RA1	pass	pass
Yellow	ORALITE [®] 5710-020 Engineering Grade	CR2	RA1	pass	pass
Red	ORALITE [®] 5710-030 Engineering Grade	CR2	RA1	pass	pass
Blue	ORALITE [®] 5710-050 Engineering Grade	CR2	RA1	pass	pass
Green	ORALITE [®] 5710-060 Engineering Grade	CR2	RA1	pass	pass
Orange	ORALITE [®] 5710-035 Engineering Grade	CR1	RA1	pass	pass
Brown	ORALITE [®] 5710-080 Engineering Grade	CR2	RA1	pass	pass
Retroreflective sheeting ORALITE[®] 5710 engineering Grade with the following Lettering Film:					
Black	ORALITE [®] 5071-070 Lettering Film	NR1	-	pass	pass
Retroreflective sheeting ORALITE[®] 5710 engineering Grade with the following screen printing colours:					
Yellow	ORALITE [®] 5018-020 Screen Printing ink	CR2	RA1	pass	pass
red	ORALITE [®] 5018-030 Screen Printing ink	CR2	RA1	pass	pass
blue	ORALITE [®] 5018-050 Screen Printing ink	CR2	RA1	pass	pass
Green	ORALITE [®] 5018-060 Screen Printing ink	CR2	RA1	pass	pass
black	ORALITE [®] 5018-070 Screen Printing ink	NR1	-	pass	pass

Digital printing colours:

The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with the transparent laminate ORALITE[®] 5062-000 Transparent Film.

Digital Printing Colour ORALITE[®] 5019 UV Digital Printing Ink

On white sheeting	ORALITE [®] 5710-010 Engineering Grade and				
White	ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Yellow	ORALITE [®] 5019-020 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Red	ORALITE [®] 5019-030 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Blue	ORALITE [®] 5019-050 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Green	ORALITE [®] 5019-060 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Grey	ORALITE [®] 5019-625 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Black	ORALITE [®] 5019-070 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	NR1	-	pass	pass
If the colour black is printed solely, this material combination is admitted to be used without the transparent laminate.					
Black	ORALITE [®] 5019-070 UV Digital Printing Ink	NR1	-	pass	pass

Digital printing colour ORALITE[®] 5019i UV Digital Printing Ink

On white sheeting	ORALITE [®] 5710-010 Engineering Grade and				
White	ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Yellow	ORALITE [®] 5019i-020 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Red	ORALITE [®] 5019i-030 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Blue	ORALITE [®] 5019i-050 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Green	ORALITE [®] 5019i-060 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Orange	ORALITE [®] 5019i-035 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR1	RA1	pass	pass
Brown	ORALITE [®] 5019i-080 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	CR2	RA1	pass	pass
Black	ORALITE [®] 5019i-070 UV Digital Printing Ink and ORALITE [®] 5062-000 Transparent Film	NR1	-	pass	pass

Clear protective overlay film:

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

Anti-Graffiti:

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

Original dyed retroreflective sheeting ORALITE[®] 5710 Engineering Grade with screen-printing ORALITE[®] 5018

Red	ORALITE [®] 5018-030 Screen Printing Ink and ORALITE [®] 5095 Anti-Graffiti Film	CR2	RA1	pass	pass
Blue	ORALITE [®] 5018-050 Screen Printing Ink and ORALITE [®] 5095 Anti-Graffiti Film	CR2	RA1	pass	pass
Black	ORALITE [®] 5018-070 Screen Printing Ink and ORALITE [®] 5095 Anti-Graffiti Film	NR1	-	pass	pass

ORALITE[®] 5810 High Intensity Grade:

Retroreflective sheeting ORALITE[®] 5810 High Intensity Grade with the following original dyed colours:

Colour	Name of product	Visibility characteristics		Durability	
		Daylight Chromaticity & luminance factor 4.1.1.3. For black colours: 7.2.2.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.	Resistance to weathering 4.1.1.5. For black colours: 7.2.2.1.4
White	ORALITE [®] 5810-010 High Intensity Grade	CR2	RA2	pass	pass
Yellow	ORALITE [®] 5810-020 High Intensity Grade	CR2	RA2	pass	pass
Red	ORALITE [®] 5810-030 High Intensity Grade	CR2	RA2	pass	pass
Blue	ORALITE [®] 5810-050 High Intensity Grade	CR2	RA2	pass	pass
Green	ORALITE [®] 5810-060 High Intensity Grade	CR2	RA2	pass	pass
Brown	ORALITE [®] 5810-080 High Intensity Grade	CR2	RA2	pass	pass

Retroreflective sheeting ORALITE[®] 5810 High Intensity Grade with the following Lettering Film:

Black	ORALITE [®] 5081-070 Lettering Film	NR1	-	pass	pass
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Retroreflective sheeting ORALITE[®] 5810 High Intensity Grade with the following Coloured Laminates:

Yellow	ORALITE [®] 5061-020 Transparent Film	CR2	RA2	pass	pass
Red	ORALITE [®] 5061-030 Transparent Film	CR2	RA2	pass	pass
Blue	ORALITE [®] 5061-050 Transparent Film	CR2	RA2	pass	pass
Green	ORALITE [®] 5061-060 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE [®] 5061-080 Transparent Film	CR2	RA2	pass	pass
Dark Green	ORALITE [®] 5061-625 Transparent Film	CR1	RA2	pass	pass

Retroreflective sheeting ORALITE[®] 5810 High Intensity Grade with the following Screen Printing Colours:					
Yellow	ORALITE [®] 5018-020 Screen Printing Ink	CR2	RA2	pass	pass
Red	ORALITE [®] 5018-030 Screen Printing Ink	CR2	RA2	pass	pass
Blue	ORALITE [®] 5018-050 Screen Printing Ink	CR2	RA2	pass	pass
Green	ORALITE [®] 5018-060 Screen Printing Ink	CR2	RA2	pass	pass
Black	ORALITE [®] 5018-070 Screen Printing Ink	NR1	-	pass	pass
Digital Printing Colours:					
Digital Printing Colour ORALITE[®] 5019 UV Digital Printing Ink					
The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with a transparent laminate.					
Digital Printing with protective laminate ORALITE[®] 5061-000 Transparent Film					
On white sheeting	ORALITE [®] 5810-010 High Intensity Grade and				
White	ORALITE [®] 5061-000 Transparent Film	CR2	RA2	pass	pass
Yellow	ORALITE [®] 5019-020 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	CR2	RA2	pass	pass
Red	ORALITE [®] 5019-030 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	CR2	RA2	pass	pass
Blue	ORALITE [®] 5019-050 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	CR2	RA2	pass	pass
Green	ORALITE [®] 5019-060 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE [®] 5019-080 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark Green	ORALITE [®] 5019-625 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	CR2	RA2	pass	pass
Grey	ORALITE [®] 5019-073 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	CR2	RA2*	pass	pass
*Coefficient of retroreflection: Value for printed colours 70% of RA2					
Black	ORALITE [®] 5019-070 UV Digital Printing Ink and ORALITE [®] 5061-000 Transparent Film	NR1	-	pass	pass

Digital Printing with protective laminate ORALITE® 5090 Anti-Dew Film:					
On white sheeting	ORALITE®5810-010 High Intensity Grade and				
White	ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2*	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2*	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Dark Green	ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	CR2	RA2	pass	pass
*Coefficient of retroreflection: Value for printed colours 70% of RA2					
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5090 Anti-Dew Film	NR1	-	pass	pass
Digital Printing with protective laminate ORALITE® 5095 Anti-Graffiti Film:					
On white sheeting	ORALITE®5810-010 High Intensity Grade and				
White	ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2*	pass	pass
Braun	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
*Coefficient of retroreflection: Value for printed colours 70% of RA2					
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5095 Anti-Graffiti Film	NR1	-	pass	pass
If the colour Black is printed solely, this material combination is admitted to be used without the transparent laminate					
Black	ORALITE® 5019-070 UV Digital Printing Ink	NR1	-	pass	pass

Digital Printing Colour ORALITE® 5019i UV Digital Printing Ink:					
The digital printing is processed on white retroreflective sheeting with the digital printing system AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System and is to be laminated with the transparent laminate ORALITE® 5061-000 Transparent Film					
On white sheeting	ORALITE® 5810-010 High Intensity Grade and				
White	ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Red	ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Blue	ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Green	ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Brown	ORALITE® 5019i-080 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Dark Green	ORALITE® 5019i-625 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Grey	ORALITE® 5019i-073 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR2	RA2	pass	pass
Black	ORALITE® 5019i-070 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	NR1	-	pass	pass

Clear overlay film with special function:

Clear overlay films with special function (anti-dew and anti-graffiti) are always admitted in combination with a dyed sheeting and a colouring process.

Anti Dew:

The dyed sheeting and the combination with coloured laminates is accepted to be processed with the clear overlay film anti-dew function ORALITE® 5090 Anti-Dew film for the following colours:

Dyed Retroreflective Sheeting:

White	ORALITE® 5810-010 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Yellow	ORALITE® 5810-020 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Red	ORALITE® 5810-030 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Blue	ORALITE® 5810-050 High Intensity Grade and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass

Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Coloured Laminate:

Yellow	ORALITE® 5061-020 Transparent Film and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Red	ORALITE® 5061-030 Transparent Film and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass
Blue	ORALITE® 5061-050 Transparent Film and ORALITE® 5090 Anti-Dew film	CR2	RA2	pass	pass

Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Lettering film:					
Black	ORALITE® 5081-070 Lettering Film and ORALITE® 5090 Anti-Dew film	NR1	-	pass	pass
Anti-Graffiti: The dyed sheeting and the combination with coloured laminates is accepted to be processed with the clear overlay film with anti-graffiti function ORALITE® 5095 Anti Graffiti Film for the following colours.					
Dyed Retroreflective Sheeting:					
White	ORALITE® 5810-010 High Intensity Grade and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Yellow	ORALITE® 5810-020 High Intensity Grade and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Red	ORALITE® 5810-030 High Intensity Grade and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Blue	ORALITE® 5810-050 High Intensity Grade and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Coloured Laminate:					
Yellow	ORALITE® 5061-020 Transparent Film and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Red	ORALITE® 5061-030 Transparent Film and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Blue	ORALITE® 5061-050 Transparent Film and ORALITE® 5095 Anti-Graffiti Film	CR2	RA2	pass	pass
Dyed Retroreflective Sheeting ORALITE® 5810 High Intensity Grade with Lettering Film:					
Black	ORALITE® 5081-070 Lettering Film and ORALITE® 5095 Anti-Graffiti Film	NR1	-	pass	pass
External illumination:				Value/description/class/reference	
Mean illuminance				NPD	
Uniformity of illuminance				NPD	
Corrosion resistance				Value/description/class/reference	
Aluminum plate				2 mm aluminum plate Minimum $R_{p0,2} \geq 180$ MPa SP1 Lacquered Aluminum plate on exposed side if any	
Resistance to penetration of dust and water				NPD	

Annex 2

TECHNICAL BASIS

Title	Date
Retroreflective Sheetings 5710 Engineering grade: 0913-CPD-2009/001 Annex	2009-03-17 2016-03-31
Retroreflective Sheeting Oralite 5810 High Intensity grade: 0913-CPD-2009/035 Annex	2012-06-27 2016-03-31

10. Ydeevnen for den byggevare, der er anført i punkt 1 og 2,
er i overensstemmelse med den deklarerede ydeevne i punkt 9.

Denne ydeevnedeklaration udstedes på eneansvar af den fabrikant, der er anført i punkt 4.

Underskrevet for fabrikanten og på dennes vegne af:

Odense d. 1. maj 2024



Christian Daluiso, Adm. Direktør