

**Attachment to Certificate of constancy of performance 0913 - CPR - 2017 / 05
(12 pages)**

The descriptions in this attachment refer to the ETA (Assessment)

ETA-12/0478 from 2017-07-24,
ETA-16/0465 from 2016-07-18,
ETA-16/0466 from 2016-07-18,
ETA-16/0612 from 2016-11-16,
ETA-17/0282 from 2017-07-24,
ETA-19/0084 from 2019-03-29,
ETA-19/0085 from 2019-03-29.

The above certified microprismatic retroreflective sheeting ORALITE® 5910 High Intensity Prismatic Grade to be used for fixed, vertical road traffic signs is admitted for the following original dyed colours:

Original dyed retroreflective sheeting:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 12/0478 tab. A.1	Coefficient of retroreflection ETA 12/0478 tab. A.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 12/0478 tab. A.4 and A.5
White	ORALITE® 5910-010 High Intensity Prismatic Grade	pass	pass	pass	pass
Yellow	ORALITE® 5910-020 High Intensity Prismatic Grade	pass	pass	pass	pass
Red	ORALITE® 5910-030 High Intensity Prismatic Grade	pass	pass	pass	pass
Blue	ORALITE® 5910-050 High Intensity Prismatic Grade	pass	pass	pass	pass
Green	ORALITE® 5910-060 High Intensity Prismatic Grade	pass	pass	pass	pass
Brown	ORALITE® 5910-080 High Intensity Prismatic Grade	pass	pass	pass	pass

The above certified microprismatic retroreflective sheeting ORALITE® 5910 High Intensity Prismatic Grade to be used for fixed, vertical road traffic signs is accepted to be coloured by the below listed materials:

Lettering Film:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor EN 12899-1 7.2.2.1.3	Coefficient of retroreflection EN 12899-1 4.1.1.4	Impact resistance EN 12899-1 4.1.2	Resistance to weathering EN 12899-1 4.1.1.5
Black	ORALITE® 5081-070 Lettering Film	NR1	-	pass	pass

Screen Printing Colours:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 12/0478 tab. B.1	Coefficient of retroreflection ETA 12/0478 tab. B.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 12/0478 tab. B.4 and B.5
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Yellow	ORALITE® 5018-020 Screen Printing Ink	pass	pass	pass	pass
Red	ORALITE® 5018-030 Screen Printing Ink	pass	pass	pass	pass
Blue	ORALITE® 5018-050 Screen Printing Ink	pass	pass	pass	pass
Green	ORALITE® 5018-060 Screen Printing Ink	pass	pass	pass	pass
Orange	ORALITE® 5018-035 Screen Printing Ink	pass	pass	pass	pass

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor EN 12899-1 7.2.2.1.3	Coefficient of retroreflection EN 12899-1 4.1.1.4	Impact resistance EN 12899-1 4.1.2	Resistance to weathering EN 12899-1 4.1.1.5
Black	ORALITE® 5018-070 Screenprinting Ink	NR1	-	pass	pass

Screen Printing Colours with transparent protective laminate ORALITE® 5097-000 Astifol® Anti-Sticker Film:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 19/0085 tab. A.1	Coefficient of retroreflection ETA 19/0085 tab. A.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 19/0085 tab. A.4 and A.5
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Yellow	ORALITE® 5018-020 Screen Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Red	ORALITE® 5018-030 Screen Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Blue	ORALITE® 5018-050 Screen Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Green	ORALITE® 5018-060 Screen Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Orange	ORALITE® 5018-035 Screen Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Brown	ORALITE® 5018-080 Screen Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass

Coloured Laminates:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 12/0478 tab. C.1	Coefficient of retroreflection ETA 12/0478 tab. C.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 12/0478 tab. C.4 and C.5
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Transpa- rent	ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Yellow	ORALITE® 5061-020 Transparent Film	pass	pass	pass	pass
Red	ORALITE® 5061-030 Transparent Film	pass	pass	pass	pass
Blue	ORALITE® 5061-050 Transparent Film	pass	pass	pass	pass
Green	ORALITE® 5061-060 Transparent Film	pass	pass	pass	pass
Orange	ORALITE® 5061-035 Transparent Film	pass	pass	pass	pass
Brown	ORALITE® 5061-080 Transparent Film	pass	pass	pass	pass

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Colour on white sheeting	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor evaluation according to ETA 16/0465 annex A	Coefficient of retroreflection evaluation according to ETA 16/0465 annex A	Impact resistance evaluation according to EN 12899-1	Resistance to weathering evaluation according to ETA 16/0465 annex A
Darkgreen	ORALITE® 5061-625 Transparent Film	pass	pass	pass	pass

Digital Printing:

The digital printing is processed on white retroreflective sheeting with the digital printing systems ORALITE® UV Digital Traffic Sign Printer or AGFA ANAPURNA M2050 High-Speed-UV-Inkjet-System or AGFA ANAPURNA M2050i High-Speed-UV-Inkjet-System and is to be laminated with a transparent protective laminate.

ORALITE® 5019 UV Digital Printing Ink:

Transparent protective laminate ORALITE® 5061-000 Transparent Film:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 17/0282 tab. A.1	Coefficient of retroreflection ETA 17/0282 tab. B.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 17/0282 tab. C.1 and D.1
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Orange	ORALITE® 5019-035 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass

Transparent protective laminate ORALITE® 5090-000 Anti-Dew Film:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor evaluation according to ETA 16/0466 annex A	Coefficient of retroreflection evaluation according to ETA 16/0466 annex A	Impact resistance evaluation according to EN 12899-1	Resistance to weathering evaluation according to ETA 16/0466 annex A
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Orange	ORALITE® 5019-035 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass

Transparent protective laminate ORALITE® 5095-000 Anti-Graffiti Film:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor evaluation according to ETA 16/0466 annex B	Coefficient of retroreflection evaluation according to ETA 16/0466 annex B	Impact resistance evaluation according to EN 12899-1	Resistance to weathering evaluation according to ETA 16/0466 annex B
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Orange	ORALITE® 5019-035 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Darkgreen	ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Grey	ORALITE® 5019-073 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass

Transparent protective laminate ORALITE® 5097-000 Astifol® Anti-Sticker Film:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor evaluation according to ETA 19/0084 tab. A.1	Coefficient of retroreflection evaluation according to ETA 19/0084 tab. A.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering evaluation according to ETA 19/0084 tab. A.4 and A.5
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Yellow	ORALITE® 5019-020 UV Digital Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Red	ORALITE® 5019-030 UV Digital Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Blue	ORALITE® 5019-050 UV Digital Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Green	ORALITE® 5019-060 UV Digital Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Orange	ORALITE® 5019-035 UV Digital Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass
Brown	ORALITE® 5019-080 UV Digital Printing Ink and ORALITE® 5097-000 Astifol® Anti-Sticker Film	pass	pass	pass	pass

Digital Printing Black:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor EN 12899-1 7.2.2.1.3	Coefficient of retroreflection EN 12899-1 4.1.1.4	Impact resistance EN 12899-1 4.1.2	Resistance to weathering EN 12899-1 4.1.1.5
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	NR1	-	pass	pass
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	NR1	-	pass	pass
Black	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	NR1	-	pass	pass
Black	ORALITE® 5019-070 UV Digital Printing Ink *	NR1	-	pass	pass

* If the colour Black is printed solely, this material combination is admitted to be used without the transparent laminate.

As a variant of black (not retroreflective), a print of pattern can be printed to produce greyscale (retroreflective).

ORALITE® 5019i UV Digital Printing Ink:

Transparent protective laminate ORALITE® 5061-000 Transparent Film:

Colour on white sheeting	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor evaluation according to ETA 16/0612 annex A	Coefficient of retroreflection evaluation according to ETA 16/0612 annex A	Impact resistance evaluation according to EN 12899-1	Resistance to weathering evaluation according to ETA 16/0612 annex A
Yellow	ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Red	ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Blue	ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Green	ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Orange	ORALITE® 5019i-035 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Brown	ORALITE® 5019i-080 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Darkgreen	ORALITE® 5019i-625 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Grey	ORALITE® 5019i-073 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass

Transparent protective laminate ORALITE® 5090-000 Anti-Dew Film:

Colour on white sheeting	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor evaluation according to ETA 16/0612 annex B	Coefficient of retroreflection evaluation according to ETA 16/0612 annex B	Impact resistance evaluation according to EN 12899-1	Resistance to weathering evaluation according to ETA 16/0612 annex B
Yellow	ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Red	ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Blue	ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Green	ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Orange	ORALITE® 5019i-035 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Brown	ORALITE® 5019i-080 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Darkgreen	ORALITE® 5019i-625 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Grey	ORALITE® 5019i-073 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass

Transparent protective laminate ORALITE® 5095-000 Anti-Graffiti Film:

Colour on white sheeting	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor evaluation according to ETA 16/0612 annex C	Coefficient of retroreflection evaluation according to ETA 16/0612 annex C	Impact resistance evaluation according to EN 12899-1	Resistance to weathering evaluation according to ETA 16/0612 annex C
Yellow	ORALITE® 5019i-020 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Red	ORALITE® 5019i-030 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Blue	ORALITE® 5019i-050 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Green	ORALITE® 5019i-060 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Orange	ORALITE® 5019i-035 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Brown	ORALITE® 5019i-080 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Darkgreen	ORALITE® 5019i-625 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Grey	ORALITE® 5019i-073 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass

Digital Printing Black:

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor EN 12899-1 7.2.2.1.3	Coefficient of retroreflection EN 12899-1 4.1.1.4	Impact resistance EN 12899-1 4.1.2	Resistance to weathering EN 12899-1 4.1.1.5
Black	ORALITE® 5019i-070 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	NR1	-	pass	pass
Black	ORALITE® 5019i-070 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	NR1	-	pass	pass
Black	ORALITE® 5019i-070 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	NR1	-	pass	pass

As a variant of black (not retroreflective), a print of pattern can be printed to produce greyscale (retroreflective).

Clear protective overlay film:

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

Anti-Dew:

The original dyed retroreflective sheeting is accepted to be laminated with the clear protective overlay film ORALITE® 5090 Anti-Dew Film for the following colours.

Original dyed retroreflective-sheeting ORALITE® 5910 High Intensity Prismatic Grade

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 12/0478 tab. D.1	Coefficient of retroreflection ETA 12/0478 tab. D.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 12/0478 tab. D.4 and D.5
White	ORALITE® 5910-010 High Intensity Prismatic Grade and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Yellow	ORALITE® 5910-020 High Intensity Prismatic Grade and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Red	ORALITE® 5910-030 High Intensity Prismatic Grade and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Blue	ORALITE® 5910-050 High Intensity Prismatic Grade and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Green	ORALITE® 5910-060 High Intensity Prismatic Grade and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Brown	ORALITE® 5910-080 High Intensity Prismatic Grade and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass

The original dyed white retroreflective sheeting is accepted to be laminated with the coloured transparent laminate ORALITE® 5061 Transparent Film and the clear protective overlay film ORALITE® 5090 Anti-Dew Film for the following colours.

Original dyed retroreflective-sheeting ORALITE® 5910 High Intensity Prismatic Grade and coloured transparent laminate ORALITE® 5061 Transparent Film

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 12/0478 tab. F.1	Coefficient of retroreflection ETA 12/0478 tab. F.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 12/0478 tab. F.4 and F.5
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Yellow	ORALITE® 5061-020 Transparent Film and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Red	ORALITE® 5061-030 Transparent Film and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Blue	ORALITE® 5061-050 Transparent Film and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass
Green	ORALITE® 5061-060 Transparent Film and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass

Original dyed retroreflective-sheeting ORALITE® 5910 High Intensity Prismatic Grade and Lettering-Film

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor EN 12899-1 7.2.2.1.3	Coefficient of retroreflection EN 12899-1 4.1.1.4	Impact resistance EN 12899-1 4.1.2	Resistance to weathering EN 12899-1 4.1.1.5
Black	ORALITE® 5081-070 Lettering Film and ORALITE® 5090 Anti-Dew Film	NR1	-	pass	pass

Original dyed retroreflective-sheeting ORALITE® 5910 High Intensity Prismatic Grade and coloured transparent laminate ORALITE® 5061 Transparent Film

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 16/0465 annex B	Coefficient of retroreflection ETA 16/0465 annex B	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 16/0465 annex B
on white sheeting	ORALITE® 5910-010 High Intensity Prismatic Grade and				
Darkgreen	ORALITE® 5061-625 Transparent Film and ORALITE® 5090 Anti-Dew Film	pass	pass	pass	pass

Anti-Graffiti:

The original dyed retroreflective sheeting 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® 5910 High Intensity Prismatic Grade

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 12/0478 tab. E.1	Coefficient of retroreflection ETA 12/0478 tab. E.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 12/0478 tab. E.4 and E.5
White	ORALITE® 5910-010 High Intensity Prismatic Grade and ORALITE® 5095 Anti-Graffiti Film	pass	pass	pass	pass
Yellow	ORALITE® 5910-020 High Intensity Prismatic Grade and ORALITE® 5095 Anti-Graffiti Film	pass	pass	pass	pass
Red	ORALITE® 5910-030 High Intensity Prismatic Grade and ORALITE® 5095 Anti-Graffiti Film	pass	pass	pass	pass
Blue	ORALITE® 5910-050 High Intensity Prismatic Grade and ORALITE® 5095 Anti-Graffiti Film	pass	pass	pass	pass
Green	ORALITE® 5910-060 High Intensity Prismatic Grade and ORALITE® 5095 Anti-Graffiti Film	pass	pass	pass	pass
Brown	ORALITE® 5910-080 High Intensity Prismatic Grade and ORALITE® 5095 Anti-Graffiti Film	pass	pass	pass	pass

Original dyed retroreflective-sheeting ORALITE® 5910 High Intensity Prismatic Grade and Lettering-Film

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor EN 12899-1 7.2.2.1.3	Coefficient of retroreflection EN 12899-1 4.1.1.4	Impact resistance EN 12899-1 4.1.2	Resistance to weathering EN 12899-1 4.1.1.5
Black	ORALITE® 5081-070 Lettering Film and ORALITE® 5095 Anti-Graffiti Film	NR1	-	pass	pass

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Anti-Sticker:

The original dyed retroreflective sheeting is accepted to be laminated with the clear protective overlay film ORALITE® 5097 Astifo® Anti- Sticker Film for the following colours.

Original dyed retroreflective-sheeting ORALITE® 5910 High Intensity Prismatic Grade

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 19/0085 tab. B.1	Coefficient of retroreflection ETA 19/0085 tab. B.2	Impact resistance evaluation according to EN 12899-1	Resistance to weathering ETA 19/0085 tab. B.4 and B.5
White	ORALITE® 5910-010 High Intensity Prismatic Grade and ORALITE® 5097 Astifo® Anti-Sticker Film	pass	pass	pass	pass

The manufacturer of the fixed vertical road traffic sign is responsible for conformity with the mandated characteristics according to EN 12899-1 by using these materials.

Hagen, 15 April 2019


Christian Barga
Dipl.-Ing.
Leiter Straus-Zert