

Attachment to Certificate of constancy of performance 0913-CPR-2018/05 (4 pages)

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

ETA-18/0703 from 2018-09-06,

ETA-19/0025 from 2019-03-20,

ETA-19/0026 from 2019-03-20.

The above certified microprismatic retroreflective sheeting ORALITE® 5910DP 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 18/0703 annex B	Coefficient of retroreflection ETA 18/0703 annex B	Impact resistance ETA 18/0703 table 2	Resistance to weathering ETA 18/0703 annex B
White *1	ORALITE® 5910DP-010 High Intensity Prismatic Grade mit Schutzlaminat ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass

*1 The originally dyed white retroreflective sheeting shall be processed by the digital printing process and is to be laminated with a transparent protective laminate.

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

ORALITE® 5019 UV Digital Printing Ink:

The digital printing is processed on the white retroreflective sheeting ORALITE® 5910DP High Intensity Prismatic Grade with the digital printing system ORALITE® UV Digital Traffic Sign Printer and ORALITE® 5019UV Digital Printing Ink (digital printing system series AGFA Anapurna) and is to be laminated with a transparent protective laminate.

Transparent protective laminate ORALITE® 5061-000 Transparent Film:

Colour on white sheeting	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 18/0703 annex A	Coefficient of retroreflection ETA 18/0703 annex A	Impact resistance ETA 18/0703 table 2	Resistance to weathering ETA 18/0703 annex A
White	ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
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 Digitaldruckfarbe und ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Grey Raster	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass
Dark Green	ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5061-000 Transparent Film	pass	pass	pass	pass

Colour on white sheeting	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor EN 12899-1 7.3.1.3	Coefficient of retroreflection EN 12899-1 4.1.1.4	Impact resistance EN 12899-1 4.1.2.1	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

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

Colour on white sheeting	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 19/0026 table A.1	Coefficient of retroreflection ETA 19/0026 table A.2	Impact resistance ETA 19/0026 table 2	Resistance to weathering ETA 19/0026 tables A.4 and A.5
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
Green	ORALITE® 5019-060 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 Digitaldruckfarbe und ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Grey Raster	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5090-000 Anti-Dew Film	pass	pass	pass	pass
Dark Green	ORALITE® 5019-625 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 ETA 19/0025 table A.1	Coefficient of retroreflection ETA 19/0025 table A.2	Impact resistance ETA 19/0025 table 2	Resistance to weathering ETA 19/0025 tables A.4 and A.5
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
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
Grey	ORALITE® 5019-073 UV Digitaldruckfarbe und ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Grey Raster	ORALITE® 5019-070 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass
Dark Green	ORALITE® 5019-625 UV Digital Printing Ink and ORALITE® 5095-000 Anti-Graffiti Film	pass	pass	pass	pass

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® 5910DP High Intensity Prismatic Grade

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 19/0026 table B.1	Coefficient of retroreflection ETA 19/0026 table B.2	Impact resistance ETA 19/0026 table 2	Resistance to weathering ETA 19/0026 tables B.4 and B.5
White	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® 5910DP High Intensity Prismatic Grade

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor ETA 19/0025 table B.1	Coefficient of retroreflection ETA 19/0025 table B.2	Impact resistance ETA 19/0025 table 2	Resistance to weathering ETA 19/0025 tables B.4 and B.5
White	ORALITE® 5095 Anti-Graffiti 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, 2 May 2019




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