

## Certificate of constancy of performance

**No. 0913-CPR-2015/01**

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

**Retroreflective Sheeting  
ORALITE® 5510 Engineer Grade, Native Colours  
for fixed, vertical road traffic signs,  
(modalities attached),**

produced by:

**Orafol Europe GmbH  
Orafolstraße 2  
D-16515 Oranienburg  
Germany**

and produced in the manufacturing plant:

**Orafol Europe GmbH  
Orafolstraße 2  
D-16515 Oranienburg  
Germany.**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12899-1:2007**

under system 1 for the performances set out in this certificate are applied and that

**the construction product fulfils all the prescribed requirements for  
these performances.**

This certificate was first issued on **February 20<sup>th</sup> 2016** and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performances of the declared essential characteristics, do not change, and the construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

Hagen, 20 February 2016



Christian Bargon  
Dipl.-Ing.  
Leiter Straus-Zert

**Attachment to Certificate of constancy of performance 0913 - CPR - 2015 / 01  
(2 pages)**

The above certified retroreflective sheeting ORALITE® 5510 Engineer 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 4.1.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.1	Resistance to weathering 4.1.1.5
White	ORALITE® 5510-010 Engineer Grade	CR2	RA1	pass	pass
Yellow	ORALITE® 5510-020 Engineer Grade	CR2	RA1	pass	pass
Red	ORALITE® 5510-030 Engineer Grade	CR2	RA1	pass	pass
Blue	ORALITE® 5510-050 Engineer Grade	CR2	RA1	pass	pass
Green	ORALITE® 5510-060 Engineer Grade	CR2	RA1	pass	pass
Orange	ORALITE® 5510-035 Engineer Grade	CR2	RA1	pass	pass
Brown	ORALITE® 5510-080 Engineer Grade	CR2	RA1	pass	pass

The above certified microprismatic retroreflective sheeting ORALITE® 5510 Engineer Grade to be used for fixed, vertical road traffic signs is accepted to be coloured by the below listed materials:

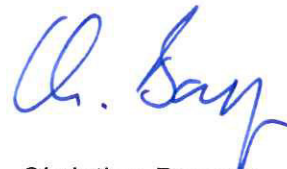
**Screenprinting Colours:**

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity & luminance factor 4.1.1.3	Coefficient of retroreflection 4.1.1.4	Impact resistance 4.1.2.1	Resistance to weathering 4.1.1.5
on white sheeting	ORALITE® 5510-010 Engineer Grade and				
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

Colour	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® 5018-070 Screen Printing Ink	NR1	-	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, 20 February 2016

Christian Bargon  
Dipl.-Ing.  
Leiter StrAus-Zert