



Výskumný ústav dopravný, a.s.  
Forschungsinstitut für Verkehrswesen, AG  
Transport Research Institute, J.S.Co.  
Veľký Diel 3323, 010 08 ŽILINA



Reg. No. 033/P-001

Autorizovaná osoba SKTC-125, Autorizovaná osoba SK05, Notifikovaný orgán 1358  
Authorized Body SKTC-125, Authorized Body SK05, Notified Body 1358

## Certificate of constancy of performance

1358 – CPR – 0172

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

### ORALITE® 5810 High Intensity Grade + ORALITE® 5017 Eco Solvent Digital Printing Ink + ORALITE® 5061 Transparent Film

is glass-beads retro-reflective sheeting used to manufacture sign faces for traffic control devices installed permanently for the information, guidance, warning and direction of road users.

Placed on the market under the name or trade mark of

**ORAFOL Europe GmbH**  
Orafolstraße 1  
16515 Oranienburg  
Germany

and produced in the manufacturing plant

**ORAFOL Europe GmbH**  
Orafolstraße 1  
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

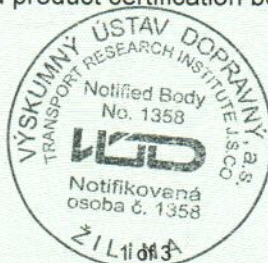
**EN 12899 - 1: 2007**

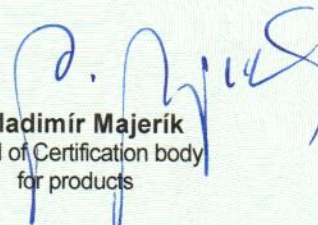
under system 1 for the performances set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

### constancy of performance of the construction product.

This certificate was first issued on 23. August 2019 and will remain valid as long as neither the harmonized standard, the construction product, the assessment and verification of constancy of performance methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Žilina 23 August 2019



  
**Vladimír Majerík**  
Head of Certification body  
for products

106153

The performance of the construction product

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity and luminance factor	Coefficient of retroreflection	Impact resistance	Resistance to weathering
	ORALITE® 5810 High Intensity Grade with	EN 12899-1 4.1.1.3	EN 12899-1 4.1.1.4	EN 12899-1 4.1.2	EN 12899-1 4.1.1.5
Yellow on white sheeting	ORALITE® 5017-020 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Red on white sheeting	ORALITE® 5017-030 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Red on yellow sheeting	ORALITE® 5017-030 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Orange on white sheeting	ORALITE® 5017-035 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Blue on white sheeting	ORALITE® 5017-050 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Green on white sheeting	ORALITE® 5017-060 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Brown on white sheeting	ORALITE® 5017-080 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Darkgreen on white sheeting	ORALITE® 5017-625 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass
Grey on white sheeting	ORALITE® 5017-073 Eco Solvent Digital Printing Ink and ORALITE® 5061-000 Transparent Film	CR1	RA2	Pass	Pass

Note: The digital printing is processed on white retroreflective sheeting with the digital printing system ORALITE® ECO Traffic Printer and has to be laminated with ORALITE® 5061-000 Transparent Film.




The performance of the construction product

Colour	Name of the product	Visibility characteristics		Durability	
		Daylight chromaticity and 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® 5017-070 Eco Solvent Digital Printing Ink	NR1	-	Pass	Pass

Note: The digital printing ink in black colour is used for symbols of traffic signs and can be laminated with ORALITE® 5061-000 Transparent Film.

Žilina 23 August 2019



  
**Vladimír Majerík**  
 Head of Certification body  
 for products