



**Declaration of Performance
No. 6910FL.001.20220208**



according to:

COMMISSION DELEGATED REGULATION (EU) No 574/2014 of 21 February 2014 amending Annex III to Regulation (EU) No 305/2011 of the European Parliament and of the Council on the model to be used for drawing up a declaration of performance on construction products

1. Unique identification code of the product-type:

ORALITE 6910 Brilliant Grade (fluorescent yellow-green, fluorescent yellow, fluorescent orange)

+ 5081-070 lettering film (black)

+ 5018-070 Screen printing ink (black)

2. Intended use/es:

Retroreflective sheeting for use in the manufacture of traffic signs and traffic control equipment

Retroreflective sign face material based on micro prismatic technology for the manufacturing of fixed vertical road traffic signs

3. Manufacturer:

Orafol Europe GmbH
Orafolstrasse 1
16515 Oranienburg

Telefon: +49 3301 864 - 0
E-Mail: info@orafol.de
Internet: www.orafol.com

4. Authorised representative – *not relevant*

5. System/s of AVCP: **1**

6 a) Harmonised standard: - *not applicable*

Notified body/ies: - *not applicable*

6 b) European Assessment Document:

Number	Date of issue
EAD 12001-01-0106	September 2016

European Technical Assessment:

Number	Date of issue
ETA-16/0467	18.07.2016



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Technical Assessment Body:

Technický a skúšobný ústav stavebný, n. o.
Building Testing and Research Institute
Studená 3, 821 04 Bratislava, Slovak Republic

Notified body/ies:

Kennnummer: **0913**

Name: **StrAus-Zert**; Fleyer Straße 204; 58097 Hagen

Certificate No.: *0913 – CPR – 2016 / 10*

7. Declared performance/s:

Main features	Description	Performance
Daylight chromaticity and luminance factors	CR 2	Attachment 1 Table 2
Coefficient of retroreflection	RA 2	Attachment 1 Table 1
Symmetry of retroreflection	< 2,5 : 1	Attachment 1
Durability		
Impact resistance	Fulfilled	Attachment 2
Resistance to weathering (artificial weathering / three years natural weathering)	CR 1	Attachment 3 Table 3 Table 4

8. Appropriate Technical Documentation and/or
Specific Technical Documentation:

Posted on Webpage:

<https://www.orafol.com>



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The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

i.A. Dipl.-Ing. Jürgen Ewald

Global Regulatory Affairs Manager

[name and function]

Oranienburg, 08.02.2022

i.A.

[date and place of issue]

[signature]



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Attachment 1

Table 1: Specific Coefficient of Retroreflection R_A (Unit: $\text{cd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$) for traffic signs in new condition: Class RA3 according to TLP VZ 2007/0661/D

Geometry		Colour - fluorescent		
α	β_1 ($\beta_2 = 0$)	Yellow-Green	Yellow	Orange
0,33°	+ 5°	240	195	90
	+ 20°	190	155	70
	+ 30°	130	110	30
	+ 40°	24	20	9,0
1°	+ 5°	28	23	10
	+ 20°	24	20	9,0
	+ 30°	16	13	6,0
	+ 40°	2,5	2,0	1,0
1,5°	+ 5°	12	10	4,5
	+ 20°	10	8,0	4,0
	+ 30°	7,0	6,0	2,5
	+ 40°	1,0	1,0	#

Indicates "Value greater than zero but not significant or applicable"

¹⁾ Values less than 0,5 are not evaluated

Table 2: Daylight chromaticity coordinates and luminance factors for traffic signs in new condition: Class CR 2; according to TLP VZ 2007/0661/D

Colour: fluorescent	Chromaticity Coordinates								Luminance Factor β
	1		2		3		4		
	x	y	x	y	x	y	x	y	
Yellow-Green	0,387	0,610	0,460	0,540	0,438	0,508	0,376	0,568	> 0,60
Yellow	0,521	0,424	0,557	0,442	0,479	0,520	0,454	0,491	> 0,38
Orange	0,595	0,351	0,645	0,355	0,570	0,429	0,531	0,414	> 0,25



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Attachment 2

Symmetry of retroreflection

The ratio of the maximum and minimum specific reflection values when rotating by ε with discrete steps, considering a preferred direction, is not greater than 2.5: 1.

Attachment 3

Impact resistance: The requirement for impact resistance depends on DIN EN 12899-1. Outside a circle with a radius of 6 mm from the center of the impact circle, no cracks or delamination from any substrate.

Attachment 4

Table 3: Specific Coefficient of Retroreflection R_A (Unit: $\text{cd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$) for traffic signs after weathering: Class RA3 according to TLP VZ 2007/0661/D

Geometry		Colour: fluorescent		
α	β_1 ($\beta_2 = 0$)	Yellow-Green	Yellow	Orange
0,33°	+ 5°	192	156	72
0,33°	+ 30°	104	88	24

Table 4: Daylight chromaticity coordinates and luminance factors for traffic signs after weathering: Class CR 1 according to DIN EN 12899-1 and according to TLP VZ 2007/0661/D

Colour	Chromaticity Coordinates								Luminance Factor β
	1		2		3		4		
	x	y	x	y	x	y	x	y	
Yellow-Green	0,387	0,610	0,460	0,540	0,438	0,508	0,376	0,568	> 0,20
Yellow	0,521	0,424	0,557	0,442	0,479	0,520	0,454	0,491	> 0,20
Orange	0,595	0,351	0,645	0,355	0,570	0,429	0,531	0,414	> 0,13