**Prüf-, Überwachungs- und Zertifizierungs-gemeinschaft der Straßenausstatter e.V.**

**Notifiziert unter 0913 durch DIBt nach BauPVO**

Prüfen Überwachen Zertifizieren

# Certificate of constancy of performance

## No. 0913-CPR-2016/07

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
## Nikkalite Engineering Grade EG 8100 series, originally dyed for fixed, vertical traffic signs,
**(modalities attached);**

produced by:

**Nippon Carbide Industries Netherlands B.V.**
**Eisterweg 5**
**NL-6422 PN Heerlen**
**Netherlands**

and produced in the manufacturing plant:

**Nippon Carbide Industries (Hangzhou) Co., Ltd.,**
**No. 99 Hongda Road Qiaonan-Qu**
**Xiaoshan Economic & Technology Development Zone**
**Hangzhou, Zhejiang,**
**China**

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

## 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 **October 1st 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construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.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, 01 October 2016

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## Attachment to Certificate of constancy of performance 0913-CPR-2016/07 (1 page)

The above certified retroreflective sheeting Nikkalite Engineering Grade EG 8100 series to be used for fixed, vertical road traffic signs using glass bead technology is admitted for the following original dyed 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 |
| White | Nikkalite Engineering Grade EG 8112 | CR2 | RA1 | pass | pass |
| Yellow | Nikkalite Engineering Grade EG 8104 | CR2 | RA1 | pass | pass |
| Red 35 | Nikkalite Engineering Grade EG 8135 | CR1 | RA1 | pass | pass |
| Blue | Nikkalite Engineering Grade EG 8106 | CR2 | RA1 | pass | pass |
| Green | Nikkalite Engineering Grade EG 8108 | CR2 | RA1 | pass | pass |
| Orange | Nikkalite Engineering Grade EG 8107 | CR1 | RA1 | pass | pass |

The above certified retroreflective sheeting Nikkalite Engineering Grade EG 8100 series to be used for fixed, vertical road traffic signs using glass bead technology is accepted to be coloured by the below listed materials:

**Lettering Film:**

| 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 |
| Black | Nikkalite Engineering Grade EG 8100 series with Nikkalite Hi-S-cal 4178 | 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, 01 October 2016

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