



ROAD TRAFFIC SIGN WARRANTY



Rennicks (UK) Ltd and Nippon Carbide Industries (NCI), provide a comprehensive written performance warranty for Nikkalite® retroreflective and Nikkacal® non retroreflective sheetings, used in the manufacture of permanent road traffic signs to BS EN 12899-1 and BS 8408.

Nikkalite & Nikkacal products are warranted to remain effective for their intended purpose for the warranted period when applied to aluminium, HP200 and certain composite substrates and meet the stated minimum values of coefficient of retroreflection as detailed below.

Period of Warranty

Retroreflective sheetings:

- Nikkalite Crystal grade 95800 series (CRG) 12 years
- Nikkalite Ultralite grade 800 series (ULS) 12 years
- Nikkalite Super engineering grade 15000 series (SEG) 10 years
- Nikkalite Engineering grade 8100 series (EG) 7 years
- Nikkalite Coloured overlay film A100 series equivalent to base film.
- Nikkalite Screen printing inks equivalent to base film

Dew resistant and anti graffiti sheetings for above:

- Nikkalite Dewtect-S DT142-S dew resistant sheeting 7 years
- Nikkalite Anti Graffiti EF40801 sheeting 7 years

Non retroreflective sheetings:

- Nikkacal non retroreflective sheetings 7 years

Coefficient of retroreflection

| | Observation angle | White | Yellow | Red | Blue | Dark Green |
|-----|-------------------|-------|--------|-----|------|------------|
| CRG | 20' | 332 | 231 | 66 | 16 | 16 |
| | 30' | 161 | 108 | 31 | 7.7 | 7.7 |
| ULS | 12' | 150 | 102 | 27 | 12 | 12 |
| | 20' | 108 | 72 | 15 | 8 | 8 |
| SEG | 12' | 60 | 40 | 10 | 4 | 8 |
| | 20' | 40 | 30 | 7 | 2 | 5 |
| EG | 12' | 38 | 25 | 6 | 2 | / |
| | 20' | 25 | 18 | 5 | 1.5 | / |

Entrance angle -5° rotation angle 90°, above values are (cd/lux/m²), for original self coloured sheeting

Warranty

If a failure occurs during the warranted period, Rennicks (UK) Ltd & NCI will arrange at their expense to have the sign face replaced or restored to its original effectiveness, including replacement cost of the sign, traffic management, taking down and installation of a new sign where applicable*.

*Please refer to our Traffic Sign Warranty for full details as they apply to sheeting type.

Nikkalite® Traffic Sign Warranty extension for composites

Following in-house testing and evaluation of new substrates Rennicks (UK) Ltd., and NCI are pleased to announce an extension to the popular Nikkalite® Road Traffic Sign Warranty offered to clients with Nikkalite® retroreflective sheetings.

Previously the Nikkalite Warranty was confined to aluminium sheet and HP200 steel substrates and following publication of BS EN 12899; 2007, plus the availability of various new substrates, certain substrate types have now been approved and included in the Warranty.

In particular two types of aluminium composite sheet have undergone internal testing by NCI and approved for use with Nikkalite sheetings, these are;

- Blackburns Composite Panel (BCP)
- Dibond® traffic

Both composites offer good supportive and adhesion properties for Nikkalite retroreflective sheetings and offer similar rigidity to 3mm aluminium sheet. The Nikkalite Warranty provides cover in the event that a Sign falls below the Warranted Performance due to a defect in the Nikkalite product. Full details are available from Rennicks (UK) Ltd.

Other substrates

A number of other substrates are also available for the manufacture of permanent road traffic signs and our testing and evaluation of these substrates including GRP type substrates shows that in general they provide reasonable support for Nikkalite sheetings. However, the rigidity of some substrates and their surface properties does not provide similar adhesion properties as the approved surfaces. Nikkalite sheetings have been applied to GRP substrates in the manufacture of permanent and temporary signs for many years without significant problems occurring. Clients may still wish to specify these types of substrate.

All substrates require testing to EN 12899;2007, and substrate suppliers are at various stages in this process.