

TOPAS

Traffic Open Products and Specifications

Product Registration - Guidance for Technical Assessors

BULLETIN 003 (26/04/22)

TOPAS 2516 – environmental tests

TOPAS 2516 calls up environmental testing specifically from the BS EN 12966 standard. It does not refer to TOPAS 2130.

The current requirements in the UK are from BS EN 12966:2014. That standard has not been harmonised however and therefore there needs to be very clear understanding that CE/CA marking alone is insufficient, as CE/CA marking is only available on the earlier version of the specification.

The Technical File submitted to TOPAS must however include the **Declaration of Performance** for CE/CA marking (produced by the manufacturer) which must specify all the requirements called up in the ZA Annex of 12966 – Table ZA.2 – discontinuous VMS. It must also include the up to date **Constancy of Performance document** (produced by the Notified Body) which will state the product classes currently applied in manufacture by the applicant.

Where there are specific classes for the UK identified in the National Annex of the standard, the results must identify those classes under BS EN 12966:2014+A1.2018. These elements will therefore require additional evidence in the Technical File.

TOPAS 2516 Appendix Z identifies which documents are required and this includes, but is not limited to, the test results for environmental testing (Box 10).

For the purposes of TOPAS 2516 Appendix Z, Environmental tests, a list of essential characteristics – (environmental tests) from Annex ZA BS EN 12966:2014 appears below. Since all of these tests are required in order to achieve Constancy of Performance there can be no circumstance where evidence of the results are not able to be produced.

EN12966:2014+A1:2018 Clause 5.4.3	Reference	Requirement / class ZA Annex	Requirement / National Annex	2516D App Z
Impact EN 60598-1	Clause 5 Table 18	Declared as CCM	As per main standard	10
Vibration EN 60068-2-64	Clause 5 Table 19	Declared as CCM	As per main standard	10

Salt spray test EN ISO 9227:2012	Clause 5 Table 20	Declared as CCM	As per main standard	10
Water penetration BS EN 60529	Table 21 NA.3	Declared as appropriate class	IPx6	10
Dust penetration BS EN 60529	Table 22 NA.3	Declared as appropriate class	IP5x	10
Temperature – Cold BS EN 60068-2-1 Test Ab	Table 13 & 23	Declared as appropriate class	T1	10
Temperature – Dry Heat BS EN 60068-2-2 Test Bd	Table 13 & 23	Declared as appropriate class	T1	10
Damp Heat Cycling BS EN 60068-2-30 Test Db	Table 13 & 23	Declared as appropriate class	T1	10
Solar Radiation EN 60068-2-5 Test Sa	Table 13 & 23	Declared as appropriate class	T1	10
Change of Temperature EN 60068-2-14 Test Nb	Table 13 & 23	Declared as appropriate class	T1	10
Wind	Table 12	Declared as appropriate class	UK Requirements are found in the NA to 12899-1	10
Pollution	IEC 60664-1 4.5.2.2	Declared as appropriate class	Degree 2	10 Where VMS enclosure meets IP56 this may be evidence to show Degree 2 is met

For all other elements of TOPAS 2516 please refer to the specification and its Appendix Z.

It is important for applicants to note that they must meet the requirements of UK legislation before seeking TOPAS registration. UK legislation includes TSRGD, and all other Statutory Instruments which are identified for traffic control products and VMS within the TOPAS remit.

Specification Reviews

Current review states:

TOPAS 2517: first consultation ended. Comments to be reviewed in May 2022.

TOPAS 2130: first consultation ended. Comments reviewed. Second Consultation to be announced shortly.

New specifications ongoing:

Portable and temporary signals TOPAS 2540 – this specification is intended to replace TOPAS 2502, 2503, 2537, & 2538. Applicants should be advised that this is not expected to be imminent, and they should therefore continue to work from the current specifications until advised otherwise.

Traffic Signal Heads– TOPAS 2543

Wait Boxes – TOPAS 2544

Detector Interface Specification TOPAS 254*

If manufacturers wish to be involved in the development of specifications, they should contact TOPAS directly. Technical Assessors are also welcome to be involved in working parties.