

**Winter maintenance equipment - Road weather
information systems - Part 2: Road weather -
Recommended observation and forecast**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15518-2:2011 sisaldab Euroopa standardi EN 15518-2:2011 ingliskeelset teksti.

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English Version

**Winter maintenance equipment - Road weather information
systems - Part 2: Road weather - Recommended observation
and forecast**

Matériels de viabilité hivernale - Systèmes d'information
météorologique routière - Partie 2: Météorologie routière -
Observations et prévisions recommandées

Winterdienstausrüstung - Straßenzustands- und
Wetterinformationssysteme - Teil 2: Straßenwetter -
Empfohlene Beobachtung und Vorhersage

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Foreword

This document (EN 15518-2:2011) has been prepared by Technical Committee CEN/TC 337 “Winter maintenance and road service area maintenance equipment”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2011, and conflicting national standards shall be withdrawn at the latest by August 2011.

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EN 15518, *Winter maintenance equipment — Road weather information systems*, comprises of the following parts:

- *Part 1: Global definitions and components*
- *Part 2: Road weather — Recommended observation and forecast*
- *Part 3: Requirements on measured values of stationary equipments*

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Introduction

Road Weather Information Systems (RWIS) are complex structures used for road maintenance decision support, which feature as a rule the following components: meteorological sensors and instruments, transmission technology, computer systems for processing, representation and storing of information, road weather forecasts and alarms, in relation to traffic control and traffic information systems and more.

Road weather observation and forecast are a set of road and atmospheric parameters and data used by the road maintenance services to determine future road conditions.

This part of EN 15518 lays down the requirements for the recommended road weather observation and forecast information of a RWIS.

The aim is to ensure extensive combination and interchangeability within the systems.

1 Scope

This European Standard specifies the frequency, resolution and content of road weather observation and forecast products for a Road Weather Information Systems (RWIS).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Not applicable.

3 Requirements on the content of road weather observation and forecast products

Road weather is characterized by weather phenomena and meteorological parameters which affect the road surface conditions. A distinction has to be made between observation and forecast.

The RWIS-forecasts shall provide the necessary information for maintenance agents to:

- make a short-term (up to 4 h) and a long-term (up to one week) planning for the disposition of personnel and means;
- decide on immediate interventions.

It has to be considered that the geographical accuracy is indirectly proportional to the forecast period. Therefore a forecast for seven days covers a larger area than a short-term forecast for the next few hours.

Road weather observation and forecasts describe conditions which would occur without winter maintenance interventions. They do not take into account the influences from traffic.

The forecast provider discloses the scientific basis, the accuracy and the database of the products to the customer.

The forecast products which are recommended are shown in Table 1.