

Standard test method for wind resistance of modular vegetated roof assembly



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Contents

Technical Committee on Bituminous Roofing Materials	2
Preface	6
1 Scope	7
2 Reference publications	7
3 Definitions	8
4 Significance of test	8
5 Test precautions	8
6 Wind uplift resistance of vegetated roof assembly	9
6.1 Test apparatus	9
6.2 Test specimen	9
6.3 Instrumentation	9
7 Wind flow resistance of vegetated roof assembly	10
7.1 Test apparatus	10
7.2 Test specimen	10
7.3 Instrumentation	10
8 Test procedure	10
8.1 Wind uplift resistance of vegetated roof assembly	10
8.2 Wind flow resistance of vegetated roof assembly	11
9 Termination of the test	11
9.1 Wind uplift resistance of vegetated roof assembly	11
9.2 Wind flow resistance of vegetated roof assembly	11
10 Test report	12
10.1 Wind uplift resistance of vegetated roof assembly	12
10.2 Wind flow resistance of vegetated roof assembly	12
<hr/>	
Annex A (informative) — VRA wind design process	15
Annex B (informative) — Sample test report	16

Preface

This is the first edition of CSA A123.24, *Standard test method for wind resistance of modular vegetated roof assembly*.

This Standard is based on the ongoing research and testing that is being carried out at the National Research Council Canada (NRCC). This document provides requirements for wind resistance testing of modular vegetated roof assemblies. The requirements specified include specimen set-up, instrumentation and apparatus, testing procedures, and termination.

CSA Group acknowledges that the development of this Standard was made possible, in part, by the financial support from the SIGDERS-VRA consortia managed by the Canadian Roofing Contractors' Association (CRCA).

This Standard was prepared by the Technical Committee on Bituminous Roofing Materials, under the jurisdiction of the Strategic Steering Committee on Construction and Civil Infrastructure, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
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 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

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 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA A123.24:15

Standard test method for wind resistance of modular vegetated roof assembly

1 Scope

1.1

The test method in this Standard determines the wind resistance of modular vegetated roof assembly when subjected to dynamic wind flow and loading cycles in laboratory conditions.

1.2

Testing in accordance with the test method in this Standard is applicable to modular vegetated systems that are grown off-site and simply placed on the roof to achieve coverage.

1.3

Testing in accordance with the test method in this Standard is not applicable to mechanically attached membrane roofing system as defined in Clause 3 of CSA A123.21.

1.4

The values given in SI (metric) units are the standard. The values given in parentheses are for information only.

1.5

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.