AS ISO 12494—2005
ISO 12494:2001
Reconfirmed 2016

Australian Standard™

Atmospheric icing of structures

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee BD-006, General Design Requirements and Loading on Structures. It was approved on behalf of the Council of Standards Australia on 3 March 2005.
This Standard was published on 26 April 2005.

The following are represented on Committee BD-006:

Association of Consulting Engineers Australia
Australian Steel Institute
Cement and Concrete Association of Australia
Concrete Masonry Association of Australia
CSIRO, Building, Construction and Engineering
Cyclone Testing Station—James Cook University
Electricity Supply Association of Australia
Housing Industry Association
Institution of Engineers Australia
Master Builders Australia
Steel Reinforcement Institute of Australia
University of Melbourne
University of Newcastle

This Standard was issued in draft form for comment as DR 04178.

STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS ISO 12494—2005
Atmospheric icing of structures

RECONFIRMATION NOTICE

Technical Committee BD-006 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 17 May 2016.

The following are represented on Technical Committee BD-006:

Australasian Wind Engineering Society
Australian Building Codes Board
Australian Steel Institute
Cement Concrete & Aggregates Australia – Cement
Concrete Masonry Association of Australia
Department of Building and Housing (New Zealand Government)
Engineers Australia
Forest and Wood Products Australia
Housing Industry Association
Institution of Professional Engineers New Zealand
James Cook University
Master Builders Australia
New Zealand Heavy Engineering Research Association
Property Council of Australia
Steel Reinforcement Institute of Australia
Swinburne University of Technology
The University of Melbourne
Think Brick Australia
University of Canterbury New Zealand
University of Newcastle

Australian Standard™

Atmospheric icing of structures

First published as AS ISO 12494—2005.

Published by Standards Australia, GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 6639 0

PREFACE

This Standard was prepared by the Standards Australia Committee BD-006, General Design Requirements and Loading on Structures.

This Standard is identical with and has been reproduced from ISO 12494:2001, *Atmospheric icing of structures*.

The objective of this Standard is to provide designers of structures and those collecting data on ice formation in Australia with general guidance on assessment of ice accumulations and loadings on structures for use in structural design. It is intended to be used as further background to AS/NZS 1170.3.

As this Standard is reproduced from an International Standard, the following applies:

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(b) In the source text 'this International Standard' should read 'this Australian Standard'.

(c) A full point should be substituted for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to equivalent Australian Standards as follows:

Reference to International Standard		*Australian Standard*	
ISO		AS	
2394	General principles on reliability for structures	5104	General principles on reliability for structures
4354	Wind actions on structures (Note that the reference in Clause 8.1 is incorrectly stated as ISO 4355)	1170 1170.2	Structural design actions Part 2: Wind actions

It should be noted that the clauses on combinations of actions do not align with the format set out in AS/NZS 1170.0. The ice classes, associated masses and drag factors are based on accumulations with an annual probability of exceedance of 1/50. A special study should be carried out to establish the appropriate adjustments to make to factors and to establish combination factors to use with any collected data.

CONTENTS

Page