



## Rooflights

STANDARDS  
Australia



Currently in preview, click buy full version

AS 4285:2019

This Australian Standard® was prepared by BD-075, Skylights. It was approved on behalf of the Council of Standards Australia on 15 April 2019.

This Standard was published on 15 May 2019.

The following are represented on Committee BD-075:

- Australian Fenestration Rating Council
- AWA-AGGA - Glass/Glazing
- Australian Industry Group
- AWA-AGGA - Windows
- Skylight Industry Association of Australia
- University of Technology Sydney

This Standard was issued in draft form for comment as DR AS 4285:2018.

**Keeping Standards up-to-date**

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

[www.standards.org.au](http://www.standards.org.au)

ISBN 978 1 76072 452 8



## Rooflights

Originates as AS 4285—1995.  
Second edition 2007.  
Third edition 2019.

### **COPYRIGHT**

© Standards Australia Limited 2019

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

## Preface

This Standard was prepared by the Standards Australia Committee BD-075, Skylights, to supersede AS 4285—2007, *Skylights*.

The objective of this Standard is to provide the manufacturers and users of rooflights with specifications covering the construction and performance of rooflights for use in building applications. This Standard covers factory-manufactured rooflight assemblies and their components.

The Standard was proposed by the Skylight Industry Association to cover areas of product performance, safety, design, construction and maintenance. Installation requirements, test conditions and procedures have been addressed.

Changes to the previous edition of this Standard include:

- (a) Change in title from Skylights to Rooflights in order to more accurately represent the range of products covered. This terminology has been aligned with terminology used in the National Construction Code (NCC).
- (b) “Scope and General” has been updated to —
  - (i) clarify scope, application and limitations;
  - (ii) add requirements for new designs and innovation; and
  - (iii) include new definitions.
- (c) Coverage of issues related to the construction of rooflight assemblies, e.g. —
  - (i) fabricated metal bases;
  - (ii) glazing;
  - (iii) ventilation;
  - (iv) bushfire-prone areas;
  - (v) cyclone areas; and
  - (vi) contact between alloys.
- (d) New informative appendix for —
  - (i) the function of rooflights; and
  - (ii) safety and safety labelling.
- (e) Additions to [Appendix C](#) — Shafts and lightwells.
- (f) Additions to [Appendix E](#) — Energy efficiency.

Illustrations in this Standard are purely diagrammatic and are intended to show functional requirements only, not methods of construction.

The terms “normative” and “informative” have been used in this Standard to define the application of the appendix to which they apply. A “normative” appendix details requirements of a Standard, whereas an “informative” appendix is for information and guidance.

## Contents

<b>Preface</b> .....	<b>ii</b>
<b>Section 1 Scope and general</b> .....	<b>1</b>
1.1 Scope.....	1
1.2 New designs and innovations.....	1
1.3 Normative references.....	1
1.4 Terms and definitions.....	2
1.5 Materials and hardware.....	2
1.5.1 Materials.....	5
1.5.2 Hardware.....	6
1.6 Protection against corrosion.....	6
1.7 Sealants, weatherstripping and gaskets.....	8
1.8 Finishes.....	8
<b>Section 2 Construction, performance requirements and installation</b> .....	<b>8</b>
2.1 Construction of rooflight assemblies.....	8
2.1.1 General.....	8
2.1.2 Bases.....	8
2.1.3 Glazing.....	9
2.1.4 Ventilation.....	9
2.1.5 Bushfire-prone areas.....	10
2.2 Performance requirements.....	10
2.2.1 Components.....	10
2.2.2 Rooflight assemblies.....	11
2.3 Installation.....	13
2.3.1 General.....	13
2.3.2 Installation requirements.....	13
2.3.3 Bushfire-prone areas.....	13
2.4 Safety label requirements.....	13
2.5 Marking.....	13
2.6 Maintenance.....	13
<b>Appendix A (normative) Safety and safety labelling</b> .....	<b>14</b>
<b>Appendix B (informative) The function of rooflights</b> .....	<b>15</b>
<b>Appendix C (informative) Rooflight shafts or lightwells</b> .....	<b>16</b>
<b>Appendix D (informative) Size of rooflights</b> .....	<b>17</b>
<b>Appendix E (informative) Energy efficiency</b> .....	<b>18</b>
<b>Appendix F (informative) Maintenance of rooflights</b> .....	<b>19</b>
<b>Bibliography</b> .....	<b>20</b>

# Australian Standard<sup>®</sup>

## Rooflights

### Section 1 Scope and general

#### 1.1 Scope

This Standard specifies requirements for the manufacture and testing of rooflights comprising a factory-manufactured assembly to permit natural light transmission. The Standard includes requirements for materials, fastenings and hardware, weatherproofing, ventilation, safety labels, marking and maintenance for rooflights complete and ready for installation in a roof opening. It is designed for use by manufacturers, suppliers, designers and consumers.

This Standard applies to factory-manufactured natural lighting systems installed into roofs including skylights, roof windows and tubular skylights (also known as tubular daylighting devices).

This Standard does not apply to overhead roof glazing systems, including barrel vault, atriums, conservatories and roof systems constructed from light-transmitting materials.

NOTE While information on the choice of a rooflight for a particular application is outside the scope of this Standard, some guidance in this respect is provided in [Appendix B](#).

#### 1.2 New designs and innovations

Any alternative materials, designs, methods of assembly, etc., that do not conform with specific requirements of this Standard, are not excluded. However, where materials not specifically identified in [Section 2](#) are used, they shall satisfy or exceed the specified component and assembly performance requirements of this Standard.

#### 1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1288, *Glass in buildings—Selection and installation*

AS 1319, *Safety signs for the occupational environment*

AS 1397, *Continuous (cold dip) metallic coated steel sheet and strip—Coatings of zinc and zinc alloyed with aluminium and magnesium*

AS 1444, *Wrought alloy steels—Standard, hardenability (H) series and hardened and tempered to designated mechanical properties*

AS 1566, *Copper and copper alloys—Rolled flat products*

AS 1604.1, *Specification for preservative treatment, Part 1: Sawn and round timber*

AS 1604.3, *Specification for preservative treatment, Part 3: Plywood*

AS 1604.4, *Specification for preservative treatment, Part 4: Laminated veneer lumber (LVL)*

AS 1720.2, *Timber structures, Part 2: Timber properties*

AS 1789, *Electroplated zinc (electrogalvanized) coatings on ferrous articles (batch process)*

AS 2047, *Windows and external glazed doors in buildings*

AS 2334, *Steel nails—Metric series*