



# Certificate of Conformity

Certification Body:



**Bureau Veritas Australia Pty Ltd**  
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Certificate Holder:



**Gorter Hatches Pty Ltd**  
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Certificate number: CM70087 Rev3

THIS TO CERTIFY THAT

## Gorter Roof Hatches, Floor Doors, Stairs and Plenums

**Type and/or use of product:**

Roof hatches, floor doors, scissor stairs and plenums, providing access to trafficable roofs and floors.

**Description of product:**

Gorter roof hatches, floor doors, stairs, and plenums are prefabricated units for installation in floors or concrete, timber or steel roofs of pitch up to 30 degrees, providing access to trafficable roof areas and sub-ground spaces.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2022

**Performance Requirement(s)**

**Volume One**

B1P1(1), limited to (2) (a),(b),(c)&(e) Structural reliability  
D1P2(c)(i)(B),(ii) (v) Safe movement to and within a building  
D1P3(1)(a),(i) Fall prevention barriers  
D1P4 Exits  
F3P1\*\* Weatherproofing

**Volume Two**

H1P1(1), limited to (2)(a),(b),(c)&(e)\*  
H2P2\*\*  
H5P1(b)

Structural reliability and resistance  
Weatherproofing  
Movement to and within a building

**Deemed-to-Satisfy Provision(s):**

C2D2 including Specification 5 – Fire Resistance  
See conditions and Limitations for achieved FRLs  
J4D4 - contributes to\*\*\*  
J4D5 – contributes to \*\*\*  
Type of construction required  
Building fabric Roof and ceiling construction  
Roof lights

13.2.3 -contributes to\*\*\*  
13.2.4 -contributes to \*\*\*

**State or territory variation(s):**

N/A  
NSW 13.2.4 – contributes to

\*Resistance to snow actions only applicable to RHT models  
\*\*Not applicable to WAG Roof hatches  
\*\*\* Applies to RHT, RHTG and RHTEI models, see conditions and limitations

**Sam Guindi – Product Certification Manager**  
Bureau Veritas Australia Pty Ltd

**Harley Parkes – Unrestricted Building Certifier**  
Jensen Hughes Pty Ltd

Date of issue: 16 February 2021  
Date of Revalidation: 04 October 2024  
Date of expiry: 16 February 2027



**SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B**

**Limitations and conditions:**

1. Gorter RHT and RHTG roof hatches are suitable for use only in Non-Cyclonic Wind regions.
2. The RHTEI Fire rated hatches may be used where an FRL of up to -/120/120 is required.
3. Thermal resistance has ONLY been tested for roof hatches listed below and has achieved the following results:
  - a) RHT roof hatches can achieve the following values: U-value = 0.319 W/m<sup>2</sup>K and R value = 3.13 m<sup>2</sup>K/W for the hatch and frame assembly;
  - b) RHTG roof hatches can achieve the following values: U-value = 0.5 W/m<sup>2</sup>K for the glazed panel and a U Value = 0.833 W/m<sup>2</sup>K and R Value = 1.200 m<sup>2</sup>K/W for the frame assembly;
  - c) RHTEI roof hatches can achieve the following values: U- Value = 0.64 W/m<sup>2</sup>K and R-value = 1.56 m<sup>2</sup>K/W for the hatch and frame assembly.
4. Glazed floor doors WAG-1000-1000 and WAG-1000-2000 are suitable for use in trafficable conditions when subjected to a maximum concentrated load of 2.5kN and uniformly distributed actions of up to 5kPa.
5. The resistance to snow actions has only been assessed for the RHT models.
6. Gorter Roof Hatches, Scissor Stairs, and Plenums are certified for use to access non-habitable spaces such as rooftop terraces, lofts, and attics in Class 1 and Class 10 buildings, and for maintenance access in Class 2 – 9 buildings.
7. Certification excludes:
  - a) specification of the means of fixing roof hatches, floor doors and stairs to the roof and ceiling structure, or the floor structure, which shall be designed by a registered structural engineer (CPENG),
  - b) specification of the openings made to accommodate this product, which shall be assessed by a registered structural engineer (CPENG) on a case-by-case basis,
  - c) additional barriers to meet the requirements of AS1657:2018 when a roof hatch or floor door is open to meet the Deemed-to-Satisfy requirements of NCC 2022 D3D23 for plant rooms and other non-habitable spaces.
8. When applying D1P4, the certifier should consider the other requirements of D3D26 and D3D23 and determine if the Gorter scissor stair and/or hatch are a suitable means of egress for the application which it is proposed.
9. These products have NOT been assessed against the requirements for bushfire construction in bushfire prone areas of the NCC.
10. Any motorised or electrical components of these products are NOT covered by this certification.
11. Gorter roof hatches, floor doors and stairs shall be installed in accordance with:
  - a) Gorter User Information Roof Hatches, RHT/RHTG/RHTX/RHTEP, Ref: 202401V63B
  - b) Gorter User Information Scissor Stairs, Small – Large – EL-60 – XL, Ref: 202311V39
  - c) Gorter User Information Hinged Floor Doors, WA, WAG, WAPT, WAEI and OP, Ref: 202311V21
  - d) Gorter Manual: Extension of Scissor Stairs, 2023 (Ref: 202311V39)
  - e) Gorter Technical Data Sheet Roof Hatches RHT/RHTEI/RHTG, 2024 (Ref: 202401V14F) and
  - f) Gorter Technical Data Sheet Roof Hatches RHTG/RHTE, 2022 (Ref: 202212V1H)
12. Cleaning and maintenance of the hatch and scissor stair shall be carried out in accordance with the Gorter User Guides and at the

**Building classification/s:**

Volume 1 – Class 2 to Class 9 buildings  
Volume 2 – Class 1 and Class 10 buildings



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specified time intervals.

13. Each product shall be used for its intended purpose.

**Scope of certification:** The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website [www.abcb.gov.au](http://www.abcb.gov.au). This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

**Disclaimer:** The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

Refer to Page 1.

### A2 Description of product

Gorter roof hatches and floor doors are prefabricated units for installation in voids to concrete, timber or steel roofs of pitch up to 30°, providing access to roofs for maintenance, to trafficable roof areas such as roof terraces and roof gardens, and to attics, floors, cellars and plant equipment rooms.

The hatches are of powder-coated steel, stainless steel or aluminium sheet based composite insulating panel construction. The hatches are supplied with gas struts for assisted opening (electric motor option), and integral safety handrail, thermal break, weather seal, and all fixing, hinges and locking hardware. The vertical walls of the hatches (curb) are securely fixed to the upper

surface of the roof with integral tabs and appropriate anchors/fasteners. A continuous waterproof membrane or flashing is applied over the roof and up under the weather lip (flange) at the top of the curb. Glazed roof hatches comprise external glazing of 8 mm Saint-Gobain Planilux glass, argon-filled 15 mm cavity and two layers of 5 mm Saint-Gobain Planilux glass on the inside. Glazed roof hatches are trafficable for maintenance purposes.

Gorter scissor stairs are prefabricated units designed for use in conjunction with Gorter roof hatches and plenum units (except glazed roof hatches). The steps and scissor elements are manufactured from cast aluminium and the telescoping handrail is fabricated from galvanized steel tubes of wall thickness at least 1 mm. Hardware is of galvanized steel or stainless steel. The scissor stairs and handrail(s) are retractable, folding within the ceiling space and extending down on lowering of the casing cover. When closed, the scissor stairs are restrained in the folded position by springs.

For roofs with a large ceiling space below, prefabricated plenum units provide fixed steps between the hatch and scissor stairs. The number in the plenum unit designation represents the number of fixed steps.

Model names are listed below:

RHT Aluminium Roof Hatches: RHT7090, RHT9090, RHT7014, RHT1035, RHT1010, RHT1015, RHT1020, RHT9024, RHT7010 (700x1000), RHT1025 (1000x2500), RHT1030 (1000x3000)

RHTG Glazed Roof Hatches: RHTG1015, RHTG9024, RHTG9030, RHTG1020 (1000x2000)

RHTEI Fire Rated Roof Hatches: RHTEI7090, RHTEI9090, RHTEI7014, RHTEI1015, RHTEI1020, RHTEI1010, RHTEI9024

WAG Glazed Floor Door: WAG1010, WAG1020

Scissor Stairs: Type Small (700x900), Type Large (700x1200), Type EI60 (fire rated), Type XL (1000x1300), Type small + (700x1000)

Plenum: Plenum 2, Plenum 2XL, Plenum 3, Plenum 3XL, Plenum 4, Plenum 4XL

### A3 Product specification

More information on specification can be found in the following brochures and datasheets:

- Gorter Brochure – Access through roof, Wall, Floor and Ceiling, Version 202407V60B (dated 2024)
- Gorter Brochure – Roof Hatch RHT, version 202403V11 (dated 2022)
- Gorter Brochure – Roof Hatch RHTG, version 202403V21 (dated 2023)
- Technical Data sheet – Roof Hatches RHT/RHTEI/RHTX, version 202401V14F (dated 2024)
- Technical Data sheet – Roof Hatches RHTG/RHTE, version 202212V1H (dated 2022)
- Technical Data sheet – Scissor Stair, version 201904V2E (dated 2019)

#### **A4 Manufacturer and manufacturing plant(s)**

Gorter Group The Netherlands (GG) - Harmenkaag 1, Schagen, 1741 LA

Gorter Group Hungary (GHu) - 6000 Kecskemet, Sas, Utca 21

Gorter Group Italy (GI) - Via Nazionale 64, 39040 Ora (BZ)

#### **A5 Installation requirements**

- Gorter User Information Roof Hatches, RHT/RHTG/RHTX/RHTEP, Ref: 202401V63B
- Gorter User Information Scissor Stairs, Small – Large – EL-60 – XL, Ref: 202311V39
- Gorter User Information Hinged Floor Doors, WA, WAG, WAPT, WAEI and OP, Ref: 202311V21

#### **A6 Other relevant technical data**

- Eurosolid Kft, Numerical analysis of the thermal behaviour of Gorter RHT-0700-0900 roof hatch, Using EN ISO 10077: Thermal performance of windows, doors and shutters - Calculation of thermal transmittance (dated 19 January 2018)
- Eurosolid Kft, Numerical analysis of the thermal behaviour of Gorter RHTG-1000-1500 roof hatch, Using EN ISO 10077:
- Thermal performance of windows, doors and shutters - Calculation of thermal transmittance (dated 31 October 2018)
- Marecl, Fire Rated Roof Hatch, RHTEI\_7090, Thermal Behaviour Calculation (dated 04 January 2021)

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

#### BCA 2022

**Structure**A2G2(2)(a)/A5G3(1)(e) - A certificate or report from a professional engineer or other appropriately qualified person (EMI, Atelier JV, SKG-IKOB)

A2G2(2)(a)/A5G3(1)(f) - Another form of documentary evidence (Gorter Declaration of Performance)

A2G2(2)(a)/A5G3(1)(f) - Another form of documentary evidence (Gorter Statement of intended use of each product).

#### Access

A2G2(2)(c)– Expert Judgment (Jensen Hughes Pty Ltd)

A2G2(2)(a)/A5G3(1)(f) - Another form of documentary evidence. (Gorter Product Technical Design Data)

#### Weatherproofing

A2G2(2)(a)/A5G3(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person. (SKG-IKOB & Marecl)

A2G2(2)(a)/A5G3(1)(f) - Another form of documentary evidence (Gorter Declaration of Performance)

#### Fire Resistance

A2G3(2)(a)/A5G3(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Warrington Fire)

#### Energy Efficiency

A2G3(2)(a)/A5G3(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Eurosolid kft & Marecl)

### B2 Reports

#### Structure

1. **EMI Non Profit Society For Quality Control And Building Innovation With Limited Liability, Test protocol via the test loading of the thermally insulated roof hatch, Report Number: M1-É162K-00502-2012, dated 30 July 2012**

This report confirms that the RHT Aluminium Roof Hatches meet the requirements of MSZ EN 1991-1-3:2005 for snow load actions to the weight of 1050kg or a distribution of 3.97 kN / m<sup>2</sup>

2. **Atelier JV, Certificate of Design Compliance, Ref: P23121, dated 14 July 2023**

This document certifies the structural capacity for Gorter Glass floor panels for a point live load up to 2.5 kN and uniformly distributed live load up to 5 kPa.

3. **Atelier JV, Roof hatch snow load declaration, ref: P24165, dated 09 September 2024**

This letter provides the expert judgement of a registered structural engineer that the Gorter Roof hatches and confirms that the snow load resistance of 3.97 kN/m<sup>2</sup> calculated by Marbitec for the 1000 x 2000 mm RHT roof is expected to be consistence for the 1000 x 2500mm, 1000 x 3000mm, and 1000 x 3500mm sizes.

4. **SKG, Test Report, Ball drop test on an aluminium roof hatch in accordance with CUAP 04.05 / 17 and EN 356, Report No: 13.00730, dated 3 July 2014**

This report provides the results to hard body impact testing to CUAP 04.05/17 and EN 356 and determines that the Gorter Aluminium roof hatch complies with the requirements of these standards.

- 5. SKG-IKOB, Determination of :Resistance to impact load according to NEN-EN 1991-1-1 + C1 / NB, Resistance to impact load according to EN 1873 + A1: 2016, section 6.5.2.3, of a metal roof hatch with the dimensions: 1721 x 1243 mm made from the system: Gorter manufactured from the profile system: RHTG-1000-1500, Project No: 712264, dated 29 January 2019**

This report provides the results to testing of the Gorter Glass roof hatch to impact testing and determines that the product is suitable for absorbing impact with a kinetic energy of up to 800J.

- 6. Gorter Group BV, Declaration of Performance (DoP) for Roof hatch type RHTG, dated 06 January 2020**

This document provides a declaration of performance for various material properties including the following:

Water tightness (EN 12208): Class E 2400

Resistance to wind load (EN 12210): Class E 2400

Resistance to snow load (EN 1991-1-3): 5 kN/m<sup>2</sup>

Impact soft body (EN 13049): Class 3

- 7. Gorter Group BV, Declaration of Performance (DoP) for Roof hatch type RHT, dated 06 January 2020**

This document provides a declaration of performance for various material properties including the following:

Water tightness (EN 12208): Class E 650

Resistance to wind load (EN 12210): Class E 3000

Resistance to snow load (EN 1991-1-3): 3.97 kN/m<sup>2</sup>

Impact soft body (EN 13049): Class 5

Impact hard body (EN 356): Class P5A

- 8. Gorter Group, Product declaration for fire rated roof hatch model RHTEI, dated 04 January 2021**

This document provides a declaration of performance for laminated safety glass in buildings for doors and windows.

## Weatherproofing

- 9. SKG-IKOB – Determination of: Air permeability according to EN 1026, Water tightness according to EN 12155, Strength under wind load according to EN 12211 of a metal, outward opening roof hatch with the dimensions W x H: 1721 x 1243 mm, of the type: RHTG-1000-1500, Report No: 18.01083, dated 28 January 2019**

This report provides the results to testing of various standards and concludes the Gorter Roof Hatch met the requirements for air permeability and watertightness of up to 650Pa and wind load strength of up to 2400Pa.

- 10. Marecl, Annex to SKG-IKOB #18.01083 Test Report, dated 25 January 2021**

This letter provides the opinion of a qualified engineer that the RHT RHTG and RHTEI roof hatches will all perform in an equivalent manner if tested in the same way the RHT model was tested in SKG-IKOB #18.01083 for watertightness.

## Fire Resistance

- 11. Efectis, Declaration of Test Results, Certificate No: 2015-Efectis-R001575-D, Dated 21 December 2015**

This certificate provides the test results to EN 13501-2:2007+A1:2009 and concludes that the Gorter Fire Rated hatch RHTEI can achieve an FRL of -/120/120, and also confirms that the results are equivalent to testing to AS1530.4:2005

- 12. Warringtonfire, An assessment of Gorter RHTEI Insulated steel roof hatch if tested in accordance with AS1530.4-2014, Report No. 50129100 RIR2.0, dated 21 November 2022**

This assessment provides the opinion of Exova Warringtonfire on the result of the RHTEI roof hatch if tested in accordance with AS1530.4:2014, based on test results to EN 1634-1:2014 carried out by Efectis Nederland BV, and determines that the product will achieve and FRL of -/120/120

## Thermal

**13. James M Fricker, Thermal Compliance of Gorter RHT Roof Hatch to NCC 2019, NCC 2022 & AS/NZS4859.1&2:2018, report ref: 562rRHT, dated 26 September 2024**

This report provides the appraisal of testing undertaken to EN ISO 10077 against the requirements of AS/NZS 4859.1&2 and determines that the product achieves the following values: U-value = 0.319 W/m<sup>2</sup>K and R-value = 3.13 m<sup>2</sup>K/W

**14. James M Fricker, Thermal Compliance of Gorter RTHEI Roof Hatch to NCC 2019, NCC 2022 & AS/NZS4859.1&2:2018, report ref: 562rRHEI, dated 26 September 2024**

This report provides the appraisal of testing undertaken to EN ISO 10077 against the requirements of AS/NZS 4859.1&2 and determines that the product achieves the following values: U-Value 0.64 W/m<sup>2</sup>K and R-value = 1.56 m<sup>2</sup>K/W

**15. James M Fricker, Thermal Compliance of Gorter RHTG Roof Hatch to NCC 2019, NCC 2022 & AS/NZS4859.1&2:2018, report ref: 562rRHTG, dated 26 September 2024** This report provides the appraisal of testing undertaken to EN ISO 10077 against the requirements of AS/NZS 4859.1&2 and determines that the product achieves the following values: U-value = 0.5 W/m<sup>2</sup>K for the glazed panel, and a U-Value = 0.833 W/m<sup>2</sup>K and R-value = 1.200 m<sup>2</sup>K/W for the frame assembly