



Certificate of Conformity

Certification Body:



**BUREAU
VERITAS**

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Certificate Holder:



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Certificate number: CM70087

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 pre-fabricated 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 2019

	Volume One		Volume Two	
Performance Requirement(s)	BP1.1(a), limited to (b) (i,ii,iii,v) DP2(c)(i)(B),(ii,v) DP3(a,i) DP4 FP1.4*	Structural reliability Construction of exits Access for people with a disability Exits Weatherproofing	P2.1.1(a), limited to (b,i,ii,iii,v) P2.2.2* P2.5.1(b)	Structural stability and resistance Weatherproofing and dampness Movement to and within a building
Deemed-to-Satisfy Provision(s):	C1.1 interalia Spec C1.1 – See conditions and Limitations for achieved FRLs J1.2 as much as it is part of a system complying with J1.3 (contributes to)	Fire-Resisting Construction Building fabric	3.12.1.1 as much as it is part of a system complying with 3.12.1.2, 3.12.1.4 (contributes to)	Building fabric
State or territory variation(s):	NT Section J NSW Section J QLD Section J SA Section J1.3		NSW Part 3.12 does not apply (BASIX) NT Part 3.12 is replaced with BCA 2009 Part 3.12 QLD Part 3.12 Tas Part 3.12	

*Not applicable for WAG Models

Sam Guindi – Product Certification Manager
Bureau Veritas Australia Pty Ltd

Quintin Kleyn – Unrestricted Building Surveyor
Hendry Group Pty Ltd

Date of issue: 16 February 2021

Date of expiry: 16 February 2024



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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-0700-0900 roof hatch achieves the following values: $U_w = 0.319 \text{ W/m}^2\text{K}$ and $R_w = 3.130 \text{ m}^2\text{K/W}$
 - b) RHTG-1000-1500 roof hatch achieves the following values: $U_w = 0.833 \text{ W/m}^2\text{K}$ and $R_w = 1.200 \text{ m}^2\text{K/W}$
 - c) RHTEI-7090 fire rated roof hatch achieves the following values: $U_w = 0.5098 \text{ W/m}^2\text{K}$ and $R_w = 1.962 \text{ m}^2\text{K/W}$
4. Gorter floor doors are certified for use in buildings with a UDL floor load of up to 2 kPa or a 1.8 kN concentrated load.
5. 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.
6. 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 2019 D2.18 for plant rooms and other non-habitable spaces.
7. When applying DP4, the certifier should consider the other requirements of D1.16 and D2.18 and determine if the Gorter scissor stair and/or hatch are a suitable means of egress for the application which it is proposed.
8. These products have NOT been assessed against the requirements for bushfire construction in bushfire prone areas of the NCC.
9. Any motorised or electrical components of these products are NOT covered by this certification.
10. Gorter roof hatches, floor doors and stairs shall be installed in accordance with:
 - a) Gorter Roof Hatches RHT User Information Guide, 2014 (Ref: 201402V25)
 - b) Gorter User Information Scissor Stairs, 2013 (Ref: 201310V22)
 - c) Gorter Manual: Extension of Scissor Stairs, 2013 (Ref: 201301V20) and
 - d) Gorter Technical Data Sheet Roof Hatches RHT/RHTEI/RHTG, 2013 (Ref: 201309V5A).
11. Cleaning and maintenance of the hatch and scissor stair shall be carried out in accordance with the Gorter User Guides and at the specified time intervals.
12. Each product shall be used for its intended purpose.

Building classification/s:

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

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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. 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

Model names are listed below:

RHT Aluminium Roof Hatches: RHT7090, RHT9090, RHT7014, RHT1035, RHT1010, RHT1015, RHT1020, RHT9024

RHTG Glazed Roof Hatches: RHTG1015, RHTG9024, RHTG9030

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)

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 201910V115H (dated 2019)
- Gorter Brochure – Roof Hatch RHT, version 201910V11C (dated 2019)
- Technical Data sheet – Roof Hatches RHT/RHTEI/RHTX, version 201901V13B (dated 2019)
- Technical Data sheet – Roof Hatches RHTG/RHTE, version 201707V1F (dated 2017)
- 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: 202006V50
- Gorter User Information Scissor Stairs, Small – Large – EL-60 – XL, Ref: 201910V33B
- Gorter User Information Hinged Floor Doors, WA, WAG, WAPT, WAEI and OP, Ref: 201910V16C

A6 Other relevant technical data

N/A

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

Structure

- A2.2(2)(a)/A5.2(1)(e) - A certificate or report from a professional engineer or other appropriately qualified person (EMI, Wirrawonga Consulting, SKG-IKOB)
- A2.2(2)(a)/A5.2(1)(f) - Another form of documentary evidence, such as but not limited to a Product Technical Statement (Gorter Declaration of Performance)
- A2.2(2)(a)/A5.2(1)(f) - Another form of documentary evidence, such as but not limited to a Product Technical Statement (Gorter statement of intended performance of each product type)

Access

- A2.2(2)(c) – Expert Judgment (Hendry Group)
- A2.2(2)(a)/A5.2(1)(f) - Another form of documentary evidence, such as but not limited to a Product Technical Statement (Gorter Product technical design data)

Weatherproofing

- A2.2(2)(a)/A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (SKG-IKOB & Marecl)
- A2.2(2)(a)/A5.2(1)(f) - Another form of documentary evidence, such as but not limited to a Product Technical Statement (Gorter declaration)

Fire Resistance

- A2.3(2)(a)/A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Efectis, Exova Warringtonfire)

Energy Efficiency

- A2.3(2)(a)/A5.2(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 / m2

- 2. WirraWonga Consulting Pty Ltd, Proposed Glass Floor Panel Design, Ref: 1912G15 (dated 12 December 2019)**

This document provides the calculations for Gorter Glass floor panels and determines that the design meets the requirements of AS/NZS 1170.0-1:2002, AS/NZS 1170.2:2011, and AS1288:2006

- 3. 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 356:2000 and determines that the Gorter Aluminium roof hatch complies with the requirements of these standards.

- 4. 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.

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

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

- Water tightness (EN 12208:2000): Class E 2400
- Resistance to wind load (EN 12210:2016): Class E 2400
- Resistance to snow load (EN 1991-1-3:2003): 5 kN/m²
- Impact soft body (EN 13049:2003): Class 3

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

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

- Water tightness (EN 12208:2000): Class E 650
- Resistance to wind load (EN 12210:2016): Class E 3000
- Resistance to snow load (EN 1991-1-3:2003): 3.97 kN/m²
- Impact soft body (EN 13049:2003): Class 5
- Impact hard body (EN 356:2000): Class P5A

7. Gorter Group BV, Product declaration for fire rated roof hatch model RHTEI (dated 04/01-2021)

This declaration from the manufacturer serves as supporting evidence for the RHTEI model complying with weatherproofing and structural requirements based on the design being the same as that of other models which have had testing under those conditions.

Weatherproofing

8. SKG-IKOB – Determination of: Air permeability according to EN 1026:2016, Water tightness according to EN 12155:2000, Strength under wind load according to EN 12211:2016 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.

9. 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

10. 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

11. Efectis, Comparison of test methods EN 1634-1(2014) and BS 476:Part 22(1987), applied to Gorter Roof Hatch RHTEI, Ref 2016-Efectis-R000823/BGG/TNL (dated 14 July 2016)

This report provides the comparison of the test conducted to EN1634:2014 to BS476: Part 22, which is comparable to AS1540.4:2005, and determines that the Gorter Roof Hatch, type RHTEI has a fire resistance Integrity of up to 134 minutes and thermal insulation of 121 minutes.

12. Exova Warringtonfire, An assessment of Gortel RHTEI Insulated steel roof hatch if tested in accordance with AS1530.4-2014, Report No. RIR 50129100.1 (dated 31 July 2017)

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. Eurosolid Kft, Numerical analysis of the thermal behaviour of Gortel RHT-0700-0900 roof hatch, Using EN ISO 10077:2017: Thermal performance of windows, doors and shutters - Calculation of thermal transmittance (dated 19 January 2018)

This report provides the results to testing to EN ISO 10077:2017 of the Gortel RHT roof hatch and returns a result for Thermal transmittance U-Value of 0.319 W/m²K and Thermal resistance R_w of 3.13m²K/W

14. Eurosolid Kft, Numerical analysis of the thermal behaviour of Gortel RHTG-1000-1500 roof hatch, Using EN ISO 10077:2017: Thermal performance of windows, doors and shutters - Calculation of thermal transmittance (dated 31 October 2018)

This report provides the results to testing to EN ISO 10077:2017 of the Gortel RHTG roof hatch and returns a result for Thermal transmittance of the hatch U-Value of 0.833 W/m²K and Thermal resistance of the hatch R_w of 1.2m²K/W

15. Marecl, Fire Rated Roof Hatch, RHTEI_7090, Thermal Behaviour Calculation (dated 04 January 2021)

This report provides the calculations conducted by a qualified and registered mechanical engineer, for the Gortel Fire Rated Fire Hatch RHTEI-7090, and returns a result for Thermal transmittance of the hatch U-Value of 0.5098 W/m²K and Thermal resistance of the hatch R_w of 1.962m²K/W