PRODUCT CERTIFICATE

Clevertronics CleverEVAC Dynamic Green Exit Sign

CERTIFICATE NO: CM20236

Date of issue: 11/08/2021
Review Date: 10/08/2024

KEY INFORMATION

1 CERTIFICATE HOLDER DETAILS

Clevertronics Pty Ltd

1 Caribbean Drive, Scoresby, VIC 3179, Australia

info@clevertronics.com.au
Tel: (+613) 9559 2700
Fax: (+613) 9559 2799

2 PRODUCT CERTIFICATION BODY

SAI Global Certification Services Pty Limited

(ACN 108 716 669) Trading as "SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

680 George St, Sydney, NSW 2000

www.saiglobal.com

3 SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

The CleverEVAC Dynamic Green Exit Signs have static and Dynamic modes of operation. When the Dynamic mode is triggered it activates sequenced LEDS to increase sign visibility and emergency exit wayfinding.

*Continuation of description can be found in item **9. Supporting Information about Description of Building Product or Method.***
*Matters that should be taken into account in the use or application of the building method or product can be found in item **6. Conditions and Limitations of Use***

Catalogue or model identification numbers: *Refer to item 9 for detailed identification information*

4 SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

Exit Signage with dynamic light function for increased visibility of and identification of exits during emergencies and evacuations.

*Continuation of intended use can be found in item **10. Supporting Information about Intended use of Building Product or Method.***

5 BUILDING CODE PROVISIONS – New Zealand Building Code (NZBC) as at JAN 2017

B2 – Durability – B2.3.1(c)

F2 – Hazardous Building Materials – F2.3.1

F8 – Signs – F8.3.1, F8.3.3

G9 – Electricity – G9.3.1, G9.3.2, G9.3.3

If designed, used, installed & maintained in accordance with the scope of this Certificate, the above-mentioned product will meet the identified provisions of the NZBC.
*How the building method or product complies or contributes can be found in item **12. Basis for Certification.***
*Any qualifications on the extent of that compliance can be found in item **6. Conditions and limitations of use.***

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6 CONDITIONS AND LIMITATIONS OF USE

1. Compliance with the electrical safety requirements of G9 is dependent on the electrical installation to which this product is connected.
2. The number and location of signs in a building are project specific and shall be located as required by NZ building Code clause F8.3.2.

Reference Documents:

- Product specifications are available upon request from certificate holder info@clevertronics.com.au
- CleverEVAC, Dynamic Exit Signage Brochure, 357A CleverEVAC 13102020
- CleverEVAC, CleverEVAC Application Guide, v0.5 September 2020

7 HEALTH AND SAFETY INFORMATION

- Related Safety datasheets are available upon request from certificate holder info@clevertronics.com.au

8 SIGNATURES

Name and Signature of the Product Certification Body's (PCB) authorised representative
and, where different, the person assigned by the PCB to make the certification decision

Frank Camasta
Global Head of Technical Services
SAI Global Assurance

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SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

9 SUPPORTING INFORMATION ABOUT DESCRIPTION

CleverEVAC Dynamic Green Exit Sign come in multiple configurations. The CleverEVAC Dynamic Green Exit Signs have static and Dynamic modes of operation. When the Dynamic mode is triggered it activates sequenced LEDS to increase sign visibility and emergency exit wayfinding.

Catalogue or model identification numbers covered under this certification:

Cleverfit Pro Series	Battery Type – LP	Battery Type – LP With Zoneworks Hive Node	Battery Type - L10	Battery Type - L10 With Zoneworks Hive Node
Dynamic Green 	DYGC-CP-R	DYGC-CP-R-HV	DYGL-CP-R	DYGL-CP-R-HV
	DYGC-CP-RR	DYGC-CP-RR-HV	DYGL-CP-RR	DYGL-CP-RR-HV
	DYGC-CP-RL	DYGC-CP-RL-HV	DYGL-CP-RL	DYGL-CP-RL-HV
	DYGC-CP-DS-RAOW	DYGC-CP-DS-RAOW-HV	DYGL-CP-DS-RAOW	DYGL-CP-DS-RAOW-HV

Ulrablade Pro Series	Battery Type – LP	Battery Type – LP With Zoneworks Hive Node	Battery Type - L10	Battery Type - L10 With Zoneworks Hive Node
Dynamic Green 	DYGC-UP-R	DYGC-UP-R-HV	DYGL-UP-R	DYGL-UP-R-HV
	DYGC-UP-RR	DYGC-UP-RR-HV	DYGL-UP-RR	DYGL-UP-RR-HV
	DYGC-UP-RL	DYGC-UP-RL-HV	DYGL-UP-RL	DYGL-UP-RL-HV
	DYGC-UP-DS-RAOW	DYGC-UP-DS-RAOW-HV	DYGL-UP-DS-RAOW	DYGL-UP-DS-RAOW-HV
	DYGC-UP-CM-R	DYGC-UP-CM-R-HV	DYGL-UP-CM-R	DYGL-UP-CM-R-HV
	DYGC-UP-CM-RR	DYGC-UP-CM-RR-HV	DYGL-UP-CM-RR	DYGL-UP-CM-RR-HV
	DYGC-UP-CM-RL	DYGC-UP-CM-RL-HV	DYGL-UP-CM-RL	DYGL-UP-CM-RL-HV
	DYGC-UP-CM-DS-RAOW	DYGC-UP-CM-DS-RAOW-HV	DYGL-UP-CM-DS-RAOW	DYGL-UP-CM-DS-RAOW-HV
	DYGC-UP-WM-R	DYGC-UP-WM-R-HV	DYGL-UP-WM-R	DYGL-UP-WM-R-HV
	DYGC-UP-WM-RR	DYGC-UP-WM-RR-HV	DYGL-UP-WM-RR	DYGL-UP-WM-RR-HV
	DYGC-UP-WM-RL	DYGC-UP-WM-RL-HV	DYGL-UP-WM-RL	DYGL-UP-WM-RL-HV
	DYGC-UP-WM-DS-RAOW	DYGC-UP-WM-DS-RAOW-HV	DYGL-UP-WM-DS-RAOW	DYGL-UP-WM-DS-RAOW-HV

CleverEVAC Part Numbers

DYGC-CP-RR-HV

- G= GREEN
- C= LP, L=L10
- CP= Cleverfit PRO, UP= Ultrablade PRO, CM= Ceiling Mount, WM= Wall Mount
- R=Running Man, Rx=Directional Options, DS-RAOW=Double Sided Arrows One Way
- HV= Zoneworks Hive Node

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10 SUPPORTING INFORMATION ABOUT INTENDED USE

Exit Signage with dynamic light function for increased visibility of and identification of exits during emergencies and evacuations.

Referenced Documents:

- CleverEVAC, Dynamic Exit Signage Brochure, 357A CleverEVAC 13102020
- CleverEVAC, CleverEVAC Application Guide, v0.5 September 2020
- Galea, Edwin R, et al. "Experimental and Survey Studies on the Effectiveness of Dynamic Signage Systems." Fire Safety Science - Proceedings of the Eleventh International Symposium, 2014, pp. 1129–1143, 10.3801.
- Lie, Hui, et al. "Experimental Study of the Effectiveness of Emergency Signage." Human Behaviour in Fire 2009, 13 July 2009.

11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

*All conditions and limitations are as stated above in item **6. Conditions and Limitations of Use***

12 BASIS FOR CERTIFICATION

- **B2 Durability** – *by comparison with Verification Method B2/VM1*
- **F2 Hazardous Building Materials** - *by comparison with the performance requirements of Building Code clause F2.3.1*
- **F8 Signs –** *by testing and comparison with Acceptable Solution F8/AS1*
- **G9 Electricity** - *by comparison with Verification Method G9/VM1*

13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

1. Building regulations 1992 (SR 1992/150) – Reprinted as at 1 January 2017.
2. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability. Amendment 12 (28 November 2019)
3. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause F8 Signs. Amendment 4 (1 January 2017).
4. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G9 Electricity. Amendment 6 (14 February 2014).
5. **Fire Check Consultants, Consultant Advice 'CleverEVAC' Dynamic Exit Signs, Version A (dated 20 August 2019)** - This report provides the opinion of Dr Than Sharma of Fire Check Consultants that the CleverEVAC Exit signs DYGC-CP-RR Exit Sign' and 'CleverEVAC DYGC-CP-DS-RAOW-ZW Exit Sign' meet the requirements of EP4.2
6. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2035607T – dated 29th January 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-CP-DS-RAOW-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
7. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23108 – dated 3rd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-CP-DS-RAOW-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.

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8. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2035605T – dated 1st February 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-CP-DS-RAOW-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
9. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23109 – dated 4th Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-CP-DS-RAOW-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.
10. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23138A – dated 2nd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-CP-DS-R-HV) and determines the products luminance flux and Luminous Efficacy.
11. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23139A – dated 2nd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-CP-DS-R-HV) and determines the products luminance flux and Luminous Efficacy.
12. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23140A – dated 2nd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-CP-R-HV) and determines the products luminance flux and Luminous Efficacy.
13. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23141A – dated 2nd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-CP-R-HV) and determines the products luminance flux and Luminous Efficacy.
14. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2035604T – dated 1st February 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-CP-RR-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
15. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23110 – dated 3rd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-CP-RR-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.
16. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2035603T – dated 1st February 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-CP-RR-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
17. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23111– dated 4th Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-CP-RR-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.
18. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2100302T – dated 29th January 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-UP-RR-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
19. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23149– dated 3rd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-UP-RR-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.
20. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2035602T – dated 2nd February 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-UP-RR-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
21. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23112– dated 4th Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-UP-RR-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.
22. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2035705T – dated 2nd February 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-UP-DS-RAOW-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
23. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23107– dated 3rd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-UP-DS-RAOW-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.

24. **LightLab International, AS/NZS 2293.3-2018 Appendix D, Endurance (Thermal) Test Report – Test Report No. LL2035701T – dated 2nd February 2021** (NATA Accreditation No. 2258) - This report provides the Endurance (Thermal) test results of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-UP-DS-RAOW-HV) and provides a summary of the battery voltage, discharge and duration in accordance with AS/NZS 2293.3 Appendix D, and determines the product passes all criteria.
25. **LightLab International, AS/NZS 2293.3-2018 section 3, Pictogram Test Report – Test Report No. LL23106– dated 4th Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance and colour test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-UP-DS-RAOW-HV) and determines that the product complies with tested requirements of AS/NZS2293.3 as listed within the report.
26. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23142A – dated 3rd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-UP-DS-R-HV) and determines the products luminance flux and Luminous Efficacy.
27. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23143A – dated 3rd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-UP-DS-R-HV) and determines the products luminance flux and Luminous Efficacy.
28. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23145A – dated 2nd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGC-UP-R-HV) and determines the products luminance flux and Luminous Efficacy.
29. **LightLab International, AS/NZS 2293.3-2018 Emergency Classification Report, Test Report No. LL23144B – dated 2nd Feb 2021** (NATA Accreditation No. 2258) – This report provides the luminance test of CleverEVAC Dynamic Emergency LED Exit Sign (Product ID DYGL-UP-R-HV) and determines the products luminance flux and Luminous Efficacy.
30. **RCM Declaration of Conformity, CLEV-RCM-DYGC-UP-DYGL-UP, 4 July 2021 -** Declaration of conformance for DYGC-UP and DYGL-UP families of products with the requirements of AS/NZS 4417.1:2012 & AS/NZS 4417.2:2018 in-scope electrical equipment and AS/NZS 3820:2009 (Essential safety requirements for electrical equipment), Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2017 made under section 182 of the Radiocommunications Act 1992, and Australian Communications and Media Authority (ACMA) for Electromagnetic Compatibility (EMC).
31. **RCM Declaration of Conformity CLEV-RCM-DYGC-CP_DYGL-CP, 4 July 2021** - Declaration of conformance for DYGC-CP and DYGL-CP families of products with the requirements of AS/NZS 4417.1:2012 & AS/NZS 4417.2:2018 in-scope electrical equipment and AS/NZS 3820:2009 (Essential safety requirements for electrical equipment), Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2017 made under section 182 of the Radiocommunications Act 1992, and Australian Communications and Media Authority (ACMA) for Electromagnetic Compatibility (EMC).

14 CONDITIONS RELATING TO NOTIFICATION

(a) the certificate holder notifies the product certification body in writing of any intended change to any of the following particulars:
(i) the name, address, or contact details of the certificate holder:
(ii) any address of a location where a certified product is produced or manufactured:

(b) the certificate holder notifies the product certification body in writing of any intended change, modification, or alteration to any of the following:
(i) the certified building method or product:
(ii) the method of its production or manufacture:
(iii) the product quality plan prepared in respect of the certified building method or product:
(iv) the application or installation instructions for the certified building method or product:
(v) any documentation relating to the use and maintenance of the certified building method or product:

(c) if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body in writing of the reason for that suspicion:

(d) if the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:

(e) if the certificate is suspended or revoked, the certificate holder—
(i) notifies all customers to whom the building method or product is regularly supplied; and
(ii) immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.