



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: **OSP – 0490 – 10**

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: American Green Technology Inc.

Manufacturer's Technical Representative: Chuck Weiser

Mailing Address: 52129 State Route 933, South Bend, IN 46637

Telephone: 269-487-9127 Email: cweiser@agtus.org

Product Information

Product Name: VidaShield

Product Type: UV-C Air Treatment and Lighting Systems

Product Model Number: VS01A, VS02A, VS03A

(List all unique product identification numbers and/or part numbers)

General Description: Ceiling-mounted fixtures with fan-fed UV air treatment and, optional fluorescent or LED downlights.

Intended for installation in acoustical ceiling systems or gypsum board suspended ceilings. Seismic enhancements made to the UUTs & modifications required to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Rigidly mounted to suspended ceiling structure.

Applicant Information

Applicant Company Name: American Green Technology Inc.

Contact Person: Chuck Weiser

Mailing Address: 52129 State Route 933, South Bend, IN 46637

Telephone: 269-487-9127 Email: cweiser@agtus.org

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:

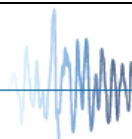
Date: November 22, 2016

Title: Chief Financial Officer

Company Name: American Green Technology Inc.

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)



OSHPD

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**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: Forell/Elsesser Engineers, Inc.

Name: Marco Scanu, SE California License Number: S4454

Mailing Address: 160 Pine St., 6th Flr., San Francisco, CA 94111

Telephone: (415) 837-0700 Email: m.scanu@forell.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM- _____
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

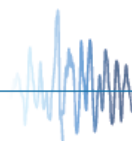
Testing Laboratory

Company Name: Southwest Research Institute

Contact Name: Allen Beavers

Mailing Address: 6220 Culebra Road, San Antonio, TX 78238

Telephone: 210-522-6012 Email: allen.beavers@swri.org





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 3.6 g

S_{DS} (Design spectral response acceleration at short period, g) = 2.0 g

a_p (In-structure equipment or component amplification factor) = 1.5

R_p (Equipment or component response modification factor) = 1.5

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = n/a

Overall dimensions and weight (or range thereof) = See attachment, Certified Products Table

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = 1.0

Ω_0 (System overstrength factor) = 1.0

C_d (Deflection amplification factor) = 1.0

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Certified Products Table, Certified Subcomponents Table, UUT Summary Sheets

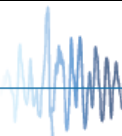
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: February 21, 2017

Print Name: Ali Sumer Title: DSE

Special Seismic Certification Valid Up to : S_{DS} (g) = 2.0 z/h = 1.0

Condition of Approval (if applicable): _____



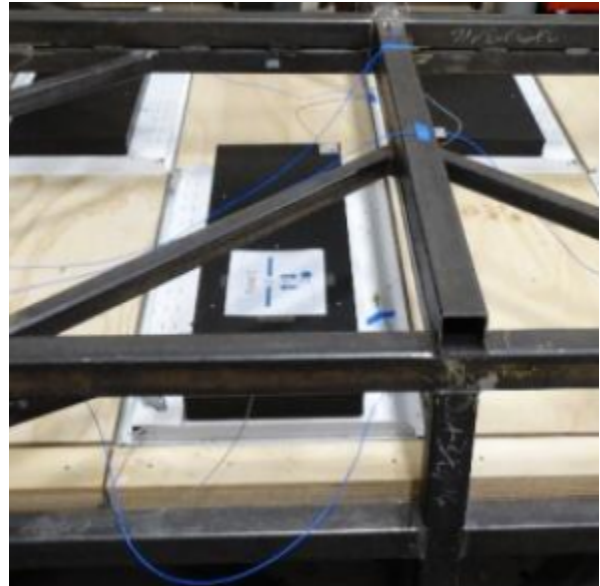
American Green Technologies (AGT) Vidashield

I. Certified Product Table

| Unit | Width | Length | Height | Weight | | Model Number | Notes | Test Status | Test Report Designation |
|--|-------|--------|--------|----------|-----------------|--------------|---------|-------------|-------------------------|
| | | | | unit | w/ mtg. bracket | | | | |
| Acoustical Tile / Lay-In Panel Ceiling Mounted | | | | | | | | | |
| VS01A - Fluorescent downlight (US ballast) | 24" | 48" | 6" | 29.0 lbs | 30.0 lbs | VS01A | 1,2,3,4 | UUT1 | VS01A-ACS (opt. 1) |
| VS01A - Fluorescent downlight (Canada/EU ballast) | 24" | 48" | 6" | 29.0 lbs | 30.0 lbs | VS01A | 1,2,3,4 | UUT2 | VS01A-ACS (opt. 2) |
| VS02A - LED downlight | 24" | 48" | 6" | 30.5 lbs | 31.5 lbs | VS02A | 1,2,3,4 | UUT3 | VS02A-ACS |
| VS03A - no downlight | 24" | 48" | 6" | 29.0 lbs | 30.0 lbs | VS03A | 1,2,3,4 | UUT4 | VS03A-ACS |
| Gypsum Board Ceiling Mounted | | | | | | | | | |
| VS01A - Fluorescent downlight (US ballast) | 24" | 48" | 6" | 29.0 lbs | 40.0 lbs | VS01A | 1,2,3,5 | UUT5 | VS01A-GYP (opt. 1) |
| VS01A - Fluorescent downlight (Canada/EU ballast) | 24" | 48" | 6" | 29.0 lbs | 40.0 lbs | VS01A | 1,2,3,5 | UUT6 | VS01A-GYP (opt. 2) |
| VS02A - LED downlight | 24" | 48" | 6" | 30.5 lbs | 41.5 lbs | VS02A | 1,2,3,5 | UUT7 | VS02A-GYP |
| VS03A - no downlight | 24" | 48" | 6" | 29.0 lbs | 40.0 lbs | VS03A | 1,2,3,5 | UUT8 | VS03A-GYP |
| Notes | | | | | | | | | |
| 1. All enclosures are aluminum 2. See SwRI test report 18.18219.05.104.FR1. 3. All units tested w/ steel mounting brackets. Larger brackets provided for mounting to underside of gypsum board ceilings. 4. Applies to acoustical tile / lay-in panel ceilings built in accordance with OSHPD OPD-0002-13. 5. Applies to gypsum board ceilings built in accordance with OSHPD OPD-0003-13. | | | | | | | | | |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

Test Report 18.18219.05.104.FR1 – UUT1
VS01A-ACS (opt. 1)
 VidaShield VS01A
 UV-C Air Treatment System w/ Fluorescent Downlights
 (US ballast)
 Aluminum housing
 24”W x 48”L x 6”H, 30.0 lbs
 Mounted to acoustic tile ceiling w/
 (2) 20 ga. carbon steel brackets, each w/
 (3) 3/16” rivets.



| Building Code | Test Criteria | S _{DS} (g) | z/h | I _p | Horizontal | | Vertical | |
|---------------------------------|---------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.01 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|--|--------------|-------------------|
| VidaShield VS01A w/ US ballast | AGT | VS01A |
| Acoustic Tile Ceiling Mounting Bracket | AGT | ELMN0001 |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

Test Report 18.18219.05.104.FR1 – UUT2

VS01A-ACS (opt. 2)

VidaShield VS01A

UV-C Air Treatment System w/ Fluorescent Downlights
 (Canada/Europe ballast)

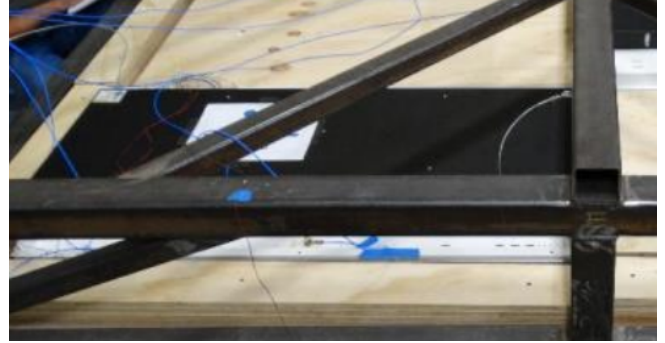
Aluminum housing

24"W x 48"L x 6"H, 30.0 lbs

Mounted to acoustic tile ceiling w/

(2) 20 ga. carbon steel brackets, each w/

(3) 3/16" rivets.



| Building Code | Test Criteria | S _{Ds} (g) | z/h | I _p | Horizontal | | Vertical | |
|--------------------------|---------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.01 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|---|--------------|-------------------|
| VidaShield VS01A w/ Canada/Europe ballast | AGT | VS01A |
| Acoustic Tile Ceiling Mounting Bracket | AGT | ELMN0001 |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

Test Report 18.18219.05.104.FR1 – UUT3

VS02A-ACS

VidaShield VS02A
 UV-C Air Treatment System w/ LED Downlights
 Aluminum housing
 24"W x 48"L x 6"H, 31.5 lbs
 Mounted to acoustic tile ceiling w/
 (2) 20 ga. carbon steel brackets, each w/
 (3) 3/16" rivets.



| Building Code | Test Criteria | S _{DS} (g) | z/h | I _p | Horizontal | | Vertical | |
|--------------------------|---------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.01 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|--|--------------|-------------------|
| VidaShield VS02A | AGT | VS02A |
| Acoustic Tile Ceiling Mounting Bracket | AGT | ELMN0001 |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

**Test Report 18.18219.05.104.FR1 – UUT4
 VS03A-ACS**

VidaShield VS03A
 UV-C Air Treatment System w/o Downlights
 Aluminum housing
 24"W x 48"L x 6"H, 30.0 lbs
 Mounted to acoustic tile ceiling w/
 (2) 20 ga. carbon steel brackets, each w/
 (3) 3/16" rivets.



| Building Code | Test Criteria | S _{DS} (g) | z/h | I _p | Horizontal | | Vertical | |
|---------------------------------|------------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.01 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|--|--------------|-------------------|
| VidaShield VS03A | AGT | VS03A |
| Acoustic Tile Ceiling Mounting Bracket | AGT | ELMN0001 |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

Test Report 18.18219.05.104.FR1 – UUT5

VS01A-GYP (opt. 1)

VidaShield VS01A
 UV-C Air Treatment System w/ Fluorescent Downlights
 (US ballast)
 Aluminum housing
 24”W x 48”L x 6”H, 40.0 lbs
 Mounted to gypsum board suspended ceiling w/
 (1) 20 ga. carbon steel mounting fixture w/
 (16) #6 sheet metal screws



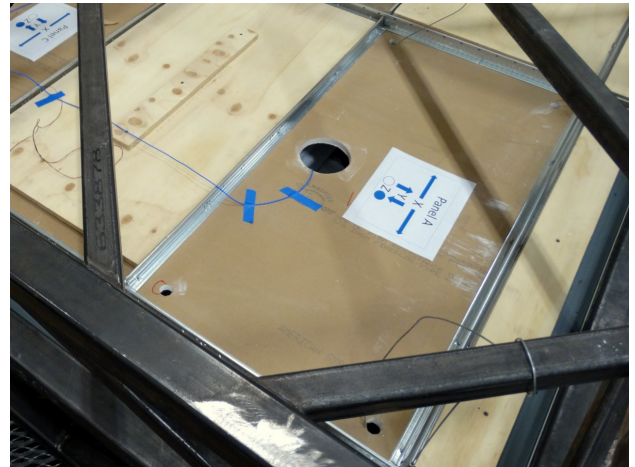
| Building Code | Test Criteria | S _{DS} (g) | z/h | I _p | Horizontal | | Vertical | |
|--------------------------|------------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|---------------------------------------|--------------|------------------------|
| VidaShield VS01A w/ US ballast | AGT | VS01A |
| Gypsum Board Ceiling Mounting Fixture | AGT | VS-HARDCEILMNT-UNV-UNV |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

**Test Report 18.18219.05.104.FR1 – UUT6
 VS01A-GYP (opt. 2)**

VidaShield VS01A
 UV-C Air Treatment System w/ Fluorescent Downlights
 (Canada/Europe ballast)
 Aluminum housing
 24”W x 48”L x 6”H, 40.0 lbs
 Mounted to gypsum board suspended ceiling w/
 (1) 20 ga. carbon steel mounting fixture w/
 (16) #6 sheet metal screws



| Building Code | Test Criteria | S _{DS} (g) | z/h | I _p | Horizontal | | Vertical | |
|--------------------------|------------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|---|--------------|------------------------|
| VidaShield VS01A w/ Canada/Europe ballast | AGT | VS01A |
| Gypsum Board Ceiling Mounting Fixture | AGT | VS-HARDCEILMNT-UNV-UNV |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

**Test Report 18.18219.05.104.FR1 – UUT7
 VS02A-GYP**

VidaShield VS02A
 UV-C Air Treatment System w/ LED Downlights
 Aluminum housing
 24"W x 48"L x 6"H, 41.5 lbs
 Mounted to gypsum board suspended ceiling w/
 (1) 20 ga. carbon steel mounting fixture w/
 (16) #6 sheet metal screws



| Building Code | Test Criteria | S _{DS} (g) | z/h | I _p | Horizontal | | Vertical | |
|---------------------------------|------------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|---------------------------------------|--------------|------------------------|
| VidaShield VS02A | AGT | VS02A |
| Gypsum Board Ceiling Mounting Fixture | AGT | VS-HARDCEILMNT-UNV-UNV |

OSP APPLICATION
 AGT – VidaShield UV-C Air Treatment & Lighting Systems
 II. UUT Summary Sheets

**Test Report 18.18219.05.104.FR1 – UUT8
 VS03A-GYP**

VidaShield VS03A
 UV-C Air Treatment System w/o downlights
 Aluminum housing
 24"W x 48"L x 6"H, 40.0 lbs
 Mounted to gypsum board suspended ceiling w/
 (1) 20 ga. carbon steel mounting fixture w/
 (16) #6 sheet metal screws



| Building Code | Test Criteria | S _{DS} (g) | z/h | I _p | Horizontal | | Vertical | |
|---------------------------------|------------------|---------------------|--|----------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | A _{FLX-H} (g) | A _{RIG-H} (g) | A _{FLX-V} (g) | A _{RIG-V} (g) |
| CBC 2016 | ICC-ES AC 156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | 1.34 | 0.53 |
| Natural Frequencies (Hz) | | | Test Results | | | | | |
| F-B | S-S | V | The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing. | | | | | |
| n/a | n/a | n/a | | | | | | |

| Subcomponents | Manufacturer | Part # / Material |
|---------------------------------------|--------------|------------------------|
| VidaShield VS03A | AGT | VS03A |
| Gypsum Board Ceiling Mounting Fixture | AGT | VS-HARDCEILMNT-UNV-UNV |