



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

OFFICE USE ONLY

APPLICATION #: OSP-0307

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Genesis Air, Inc. & IAQ Solutions, Inc.

Manufacturer's Technical Representative: Brandon Hawkins

Mailing Address: 52002 CR 7350, Suite D, Lubbock, TX 79424

Telephone: (806) 745-7000

Email: brandon.hawkins@gensisair.com

Product Information

Product Name: Populated Catalyst Panels

Product Model Number(s): See Attachments

Product Category: Air Conditioning Units

Product Sub-Category: Air Filters

General Description: These are placed in the airstream within an Air Handling Unit. Vertical filtration panels are attached at the top & bottom only for installation in rigid and flexibly supported conditions. Panels installed in ducts or in horizontal position are excluded from this OSP certification.

Mounting Description: Several - See Certified Product Tables and UUT Sheet

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: The VMC Group

Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780

Email: john.giuliano@thvmcgroup.com

Title: PE



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: THE VMC GROUP

Name: Kenneth Tarlow California License Number: S2851

Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814

Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com

Certification Method

- GR-63-Core
- ICC-ES AC156
- IEEE 344
- IEEE 693
- NEBS 3
- Other (Please Specify): _____

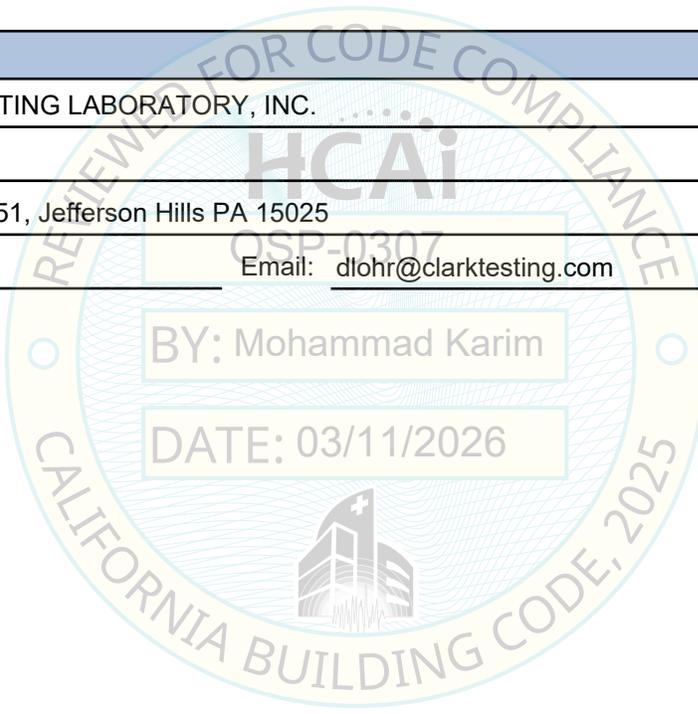
Testing Laboratory

Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Devon Lohr

Mailing Address: 1801 Route 51, Jefferson Hills PA 15025

Telephone: (412) 387-1001 Email: dlohr@clarktesting.com





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Seismic Parameters

Certified Response Spectral Acceleration Factors:(Fp/Wp)

| | | | | |
|------------|---------------|-------------|---------------|-------------|
| Horizontal | (A Flx-H), g= | <u>3.2</u> | (A Rig-H), g= | <u>2.15</u> |
| Vertical | (A Flx-V), g= | <u>1.34</u> | (A Rig-V), g= | <u>0.54</u> |

SDS (Design spectral response acceleration at short period, g) = 2.0

Hf (Force amplification height factor) = 3.5

Ru (Structure ductility reduction factor) = 1.3

Ip (Importance factor) = 1.5

z/h (Height ratio factor) = 1

HCAI Approval (For Office Use Only) - Approval Expires on 03/11/2032

Date: 3/11/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0307

BY: Mohammad Karim

DATE: 03/11/2026

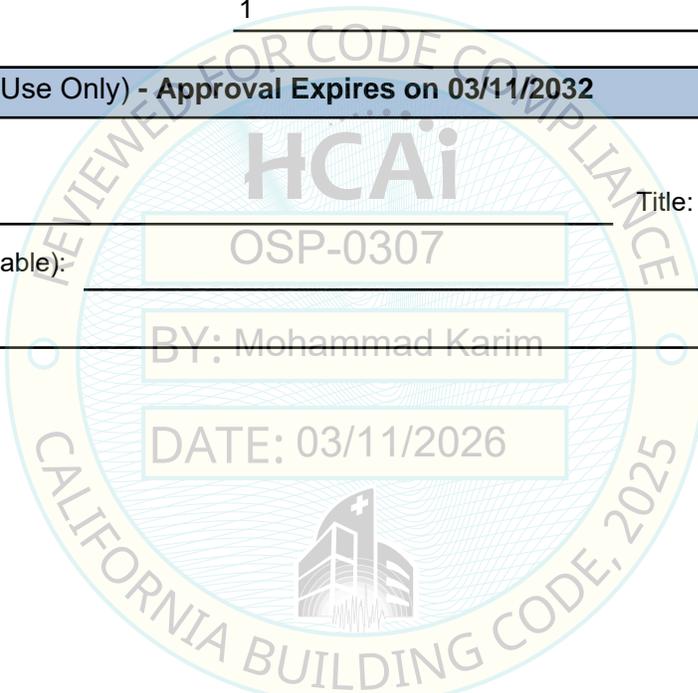


Table 1 - Genesis Air / IAQ Solutions Populated Catalyst Panel (PCP) Compounds

| Compound | Height [in] | Width [in] | PCP Standards | | | | UV Lamps | | | Weight [lbs] | | UUT |
|----------|---------------|--------------|---------------|---------------|----|-----|----------|---------------|-----------------|----------------|-----------|--------------|
| | | | Qty | Widths [in] | | | Qty | Length [in] | Rating [Amps] | Galvanized | Stainless | |
| 1212 | 12.0 | 12.0 | 1 | 12 | | | 2 | 12.0 | 0.45 | 7 | 6 | Extrapolated |
| 1216 | 12.0 | 16.0 | 1 | 16 | | | 2 | 16.0 | 0.59 | 8 | 7 | Extrapolated |
| 1220 | 12.0 | 20.0 | 1 | 20 | | | 2 | 20.0 | 0.73 | 9 | 8 | Extrapolated |
| 1221 | 12.0 | 21.0 | 1 | 21 | | | 2 | 20.0 | 0.73 | 9 | 8 | Extrapolated |
| 1224 | 12.0 | 24.0 | 1 | 24 | | | 2 | 24.0 | 1.04 | 10 | 9 | Extrapolated |
| 1228 | 12.0 | 28.0 | 2 | 16 | 12 | | 2 | 28.0 | 1.21 | 12 | 11 | Extrapolated |
| 1232 | 12.0 | 32.0 | 2 | 22 | 9 | | 2 | 31.0 | 1.32 | 13 | 12 | Extrapolated |
| 1233 | 12.0 | 33.0 | 2 | 24 | 9 | | 2 | 31.0 | 1.32 | 13 | 12 | Extrapolated |
| 1236 | 12.0 | 36.0 | 2 | 24 | 12 | | 2 | 36.0 | 1.50 | 14 | 13 | Extrapolated |
| 1237 | 12.0 | 37.0 | 2 | 24 | 13 | | 2 | 36.0 | 1.50 | 14 | 13 | Extrapolated |
| 1240 | 12.0 | 40.0 | 2 | 20 | 20 | | 2 | 40.0 | 1.69 | 15 | 14 | Extrapolated |
| 1241 | 12.0 | 41.0 | 2 | 21 | 20 | | 2 | 40.0 | 1.69 | 15 | 14 | Extrapolated |
| 1244 | 12.0 | 44.0 | 2 | 24 | 20 | | 2 | 44.0 | 1.82 | 16 | 15 | Extrapolated |
| 1245 | 12.0 | 45.0 | 2 | 24 | 21 | | 2 | 44.0 | 1.82 | 16 | 15 | Extrapolated |
| 1246 | 12.0 | 46.0 | 2 | 24 | 22 | | 2 | 44.0 | 1.82 | 16 | 15 | Extrapolated |
| 1248 | 12.0 | 48.0 | 2 | 24 | 24 | | 2 | 48.0 | 1.96 | 17 | 15 | Extrapolated |
| 1252 | 12.0 | 52.0 | 3 | 24 | 16 | 12 | 2 | 51.5 | 2.07 | 19 | 17 | Extrapolated |
| 1253 | 12.0 | 53.0 | 3 | 24 | 20 | 9 | 2 | 51.5 | 2.07 | 19 | 18 | UUT1 |
| 1256 | 12.0 | 56.0 | 3 | 24 | 22 | 9 | 2 | 55.0 | 2.21 | 20 | 18 | Interpolated |
| 1257 | 12.0 | 57.0 | 3 | 24 | 24 | 9 | 2 | 55.0 | 2.21 | 20 | 18 | Interpolated |
| 1259 | 12.0 | 59.0 | 3 | 21 | 21 | 17 | 2 | 59.0 | 2.34 | 21 | 19 | Interpolated |
| 1260 | 12.0 | 60.0 | 3 | 24 | 24 | 12 | 2 | 59.0 | 2.34 | 21 | 19 | Interpolated |
| 1261 | 12.0 | 61.0 | 3 | 24 | 24 | 14a | 2 | 59.0 | 2.34 | 21 | 19 | Interpolated |
| 1262 | 12.0 | 62.0 | 3 | 24 | 24 | 14b | 2 | 59.0 | 2.34 | 21 | 20 | UUT1 |
| 1612 | 16.0 | 12.0 | 1 | 12 | | | 3 | 12.0 | 0.67 | 10 | 9 | Interpolated |
| 1616 | 16.0 | 16.0 | 1 | 16 | | | 3 | 16.0 | 0.89 | 11 | 10 | Interpolated |
| 1620 | 16.0 | 20.0 | 1 | 20 | | | 3 | 20.0 | 1.10 | 12 | 11 | Interpolated |
| 1621 | 16.0 | 21.0 | 1 | 21 | | | 3 | 20.0 | 1.10 | 12 | 11 | Interpolated |
| 1624 | 16.0 | 24.0 | 1 | 24 | | | 3 | 24.0 | 1.56 | 13 | 12 | Interpolated |
| 1628 | 16.0 | 28.0 | 2 | 16 | 12 | | 3 | 28.0 | 1.81 | 16 | 14 | Interpolated |
| 1632 | 16.0 | 32.0 | 2 | 22 | 9 | | 3 | 31.0 | 1.98 | 17 | 15 | Interpolated |
| 1633 | 16.0 | 33.0 | 2 | 24 | 9 | | 3 | 31.0 | 1.98 | 17 | 15 | Interpolated |
| 1636 | 16.0 | 36.0 | 2 | 24 | 12 | | 3 | 36.0 | 2.26 | 18 | 16 | Interpolated |
| 1637 | 16.0 | 37.0 | 2 | 24 | 13 | | 3 | 36.0 | 2.26 | 18 | 16 | Interpolated |

Table 1 - Genesis Air / IAQ Solutions PCP Compounds Continued

| Compound | Height [in] | Width [in] | PCP Standard(s) | | | | UV Lamp(s) | | | Weight [lbs] | | UUT |
|----------|---------------|--------------|-----------------|---------------|----|-----|------------|---------------|-----------------|----------------|-----------|--------------|
| | | | Qty | Widths [in] | | | Qty | Length [in] | Rating [Amps] | Galvanized | Stainless | |
| 1640 | 16.0 | 40.0 | 2 | 20 | 20 | | 3 | 40.0 | 2.53 | 19 | 17 | Interpolated |
| 1641 | 16.0 | 41.0 | 2 | 21 | 20 | | 3 | 40.0 | 2.53 | 19 | 17 | Interpolated |
| 1644 | 16.0 | 44.0 | 2 | 24 | 20 | | 3 | 44.0 | 2.72 | 20 | 18 | Interpolated |
| 1645 | 16.0 | 45.0 | 2 | 24 | 21 | | 3 | 44.0 | 2.72 | 20 | 18 | Interpolated |
| 1646 | 16.0 | 46.0 | 2 | 24 | 22 | | 3 | 44.0 | 2.72 | 20 | 19 | Interpolated |
| 1648 | 16.0 | 48.0 | 2 | 24 | 24 | | 3 | 48.0 | 2.94 | 21 | 19 | Interpolated |
| 1652 | 16.0 | 52.0 | 3 | 24 | 16 | 12 | 3 | 51.5 | 3.10 | 24 | 21 | Interpolated |
| 1653 | 16.0 | 53.0 | 3 | 24 | 20 | 9 | 3 | 51.5 | 3.10 | 24 | 22 | Interpolated |
| 1656 | 16.0 | 56.0 | 3 | 24 | 22 | 9 | 3 | 55.0 | 3.32 | 25 | 22 | Interpolated |
| 1657 | 16.0 | 57.0 | 3 | 24 | 24 | 9 | 3 | 55.0 | 3.32 | 25 | 23 | Interpolated |
| 1659 | 16.0 | 59.0 | 3 | 21 | 21 | 17 | 3 | 59.0 | 3.51 | 26 | 23 | Interpolated |
| 1660 | 16.0 | 60.0 | 3 | 24 | 24 | 12 | 3 | 59.0 | 3.51 | 26 | 23 | Interpolated |
| 1661 | 16.0 | 61.0 | 3 | 24 | 24 | 14a | 3 | 59.0 | 3.51 | 26 | 24 | Interpolated |
| 1662 | 16.0 | 62.0 | 3 | 24 | 24 | 14b | 3 | 59.0 | 3.51 | 26 | 24 | Interpolated |
| 2012 | 20.0 | 12.0 | 1 | 12 | | | 3 | 12.0 | 0.67 | 11 | 10 | Interpolated |
| 2016 | 20.0 | 16.0 | 1 | 16 | | | 3 | 16.0 | 0.89 | 12 | 11 | Interpolated |
| 2020 | 20.0 | 20.0 | 1 | 20 | | | 3 | 20.0 | 1.10 | 13 | 12 | Interpolated |
| 2021 | 20.0 | 21.0 | 1 | 21 | | | 3 | 20.0 | 1.10 | 14 | 12 | Interpolated |
| 2024 | 20.0 | 24.0 | 1 | 24 | | | 3 | 24.0 | 1.56 | 14 | 13 | Interpolated |
| 2028 | 20.0 | 28.0 | 2 | 16 | 12 | | 3 | 28.0 | 1.81 | 18 | 16 | Interpolated |
| 2032 | 20.0 | 32.0 | 2 | 22 | 9 | | 3 | 31.0 | 1.98 | 19 | 17 | Interpolated |
| 2033 | 20.0 | 33.0 | 2 | 24 | 9 | | 3 | 31.0 | 1.98 | 19 | 17 | Interpolated |
| 2036 | 20.0 | 36.0 | 2 | 24 | 12 | | 3 | 36.0 | 2.26 | 20 | 18 | Interpolated |
| 2037 | 20.0 | 37.0 | 2 | 24 | 13 | | 3 | 36.0 | 2.26 | 20 | 18 | Interpolated |
| 2040 | 20.0 | 40.0 | 2 | 20 | 20 | | 3 | 40.0 | 2.53 | 21 | 19 | Interpolated |
| 2041 | 20.0 | 41.0 | 2 | 21 | 20 | | 3 | 40.0 | 2.53 | 22 | 19 | Interpolated |
| 2044 | 20.0 | 44.0 | 2 | 24 | 20 | | 3 | 44.0 | 2.72 | 22 | 20 | Interpolated |
| 2045 | 20.0 | 45.0 | 2 | 24 | 21 | | 3 | 44.0 | 2.72 | 23 | 20 | Interpolated |
| 2046 | 20.0 | 46.0 | 2 | 24 | 22 | | 3 | 44.0 | 2.72 | 23 | 21 | Interpolated |
| 2048 | 20.0 | 48.0 | 2 | 24 | 24 | | 3 | 48.0 | 2.94 | 23 | 21 | Interpolated |
| 2052 | 20.0 | 52.0 | 3 | 24 | 16 | 12 | 3 | 51.5 | 3.10 | 27 | 24 | Interpolated |
| 2053 | 20.0 | 53.0 | 3 | 24 | 20 | 9 | 3 | 51.5 | 3.10 | 27 | 25 | Interpolated |
| 2056 | 20.0 | 56.0 | 3 | 24 | 22 | 9 | 3 | 55.0 | 3.32 | 28 | 25 | Interpolated |
| 2057 | 20.0 | 57.0 | 3 | 24 | 24 | 9 | 3 | 55.0 | 3.32 | 29 | 26 | Interpolated |

Table 1 - Genesis Air / IAQ Solutions PCP Compounds Continued

| Compound | Height [in] | Width [in] | PCP Standard(s) | | | | UV Lamp(s) | | | Weight[lbs] | | UUT |
|----------|---------------|--------------|-----------------|---------------|----|-----|------------|---------------|-----------------|---------------|-----------|--------------|
| | | | Qty | Widths [in] | | | Qty | Length [in] | Rating [Amps] | Galvanized | Stainless | |
| 2059 | 20.0 | 59.0 | 3 | 21 | 21 | 17 | 3 | 59.0 | 3.51 | 29 | 26 | Interpolated |
| 2060 | 20.0 | 60.0 | 3 | 24 | 24 | 12 | 3 | 59.0 | 3.51 | 29 | 26 | Interpolated |
| 2061 | 20.0 | 61.0 | 3 | 24 | 24 | 14a | 3 | 59.0 | 3.51 | 30 | 27 | Interpolated |
| 2062 | 20.0 | 62.0 | 3 | 24 | 24 | 14b | 3 | 59.0 | 3.51 | 30 | 27 | Interpolated |
| 2412 | 24.0 | 12.0 | 1 | 12 | | | 4 | 12.0 | 0.90 | 13 | 12 | UUT2 |
| 2416 | 24.0 | 16.0 | 1 | 16 | | | 4 | 16.0 | 1.18 | 14 | 13 | UUT2 |
| 2420 | 24.0 | 20.0 | 1 | 20 | | | 4 | 20.0 | 1.47 | 16 | 14 | Interpolated |
| 2421 | 24.0 | 21.0 | 1 | 21 | | | 4 | 20.0 | 1.47 | 16 | 14 | UUT2 |
| 2424 | 24.0 | 24.0 | 1 | 24 | | | 4 | 24.0 | 2.08 | 17 | 15 | Interpolated |
| 2428 | 24.0 | 28.0 | 2 | 16 | 12 | | 4 | 28.0 | 2.42 | 21 | 19 | UUT2 |
| 2432 | 24.0 | 32.0 | 2 | 22 | 9 | | 4 | 31.0 | 2.64 | 22 | 20 | Interpolated |
| 2433 | 24.0 | 33.0 | 2 | 24 | 9 | | 4 | 31.0 | 2.64 | 23 | 20 | Interpolated |
| 2436 | 24.0 | 36.0 | 2 | 24 | 12 | | 4 | 36.0 | 3.01 | 24 | 21 | Interpolated |
| 2437 | 24.0 | 37.0 | 2 | 24 | 13 | | 4 | 36.0 | 3.01 | 24 | 21 | Interpolated |
| 2440 | 24.0 | 40.0 | 2 | 20 | 20 | | 4 | 40.0 | 3.38 | 25 | 22 | Interpolated |
| 2441 | 24.0 | 41.0 | 2 | 21 | 20 | | 4 | 40.0 | 3.38 | 25 | 23 | Interpolated |
| 2444 | 24.0 | 44.0 | 2 | 24 | 20 | | 4 | 44.0 | 3.63 | 26 | 23 | Interpolated |
| 2445 | 24.0 | 45.0 | 2 | 24 | 21 | | 4 | 44.0 | 3.63 | 26 | 24 | Interpolated |
| 2446 | 24.0 | 46.0 | 2 | 24 | 22 | | 4 | 44.0 | 3.63 | 27 | 24 | Interpolated |
| 2448 | 24.0 | 48.0 | 2 | 24 | 24 | | 4 | 48.0 | 3.92 | 27 | 25 | Interpolated |
| 2452 | 24.0 | 52.0 | 3 | 24 | 16 | 12 | 4 | 51.5 | 4.13 | 32 | 28 | Interpolated |
| 2453 | 24.0 | 53.0 | 3 | 24 | 20 | 9 | 4 | 51.5 | 4.13 | 32 | 28 | UUT2 |
| 2456 | 24.0 | 56.0 | 3 | 24 | 22 | 9 | 4 | 55.0 | 4.42 | 33 | 29 | Interpolated |
| 2457 | 24.0 | 57.0 | 3 | 24 | 24 | 9 | 4 | 55.0 | 4.42 | 33 | 30 | Interpolated |
| 2459 | 24.0 | 59.0 | 3 | 21 | 21 | 17 | 4 | 59.0 | 4.68 | 34 | 30 | Interpolated |
| 2460 | 24.0 | 60.0 | 3 | 24 | 24 | 12 | 4 | 59.0 | 4.68 | 34 | 30 | Interpolated |
| 2461 | 24.0 | 61.0 | 3 | 24 | 24 | 14a | 4 | 59.0 | 4.68 | 34 | 31 | Interpolated |
| 2462 | 24.0 | 62.0 | 3 | 24 | 24 | 14b | 4 | 59.0 | 4.68 | 35 | 31 | UUT2 |

Notes

- 1) The racks range from 12" to 148" in height
- 2) The racks range from 12" to 148" in width
- 3) All PCP Compound units are 5-13/16" deep
- 4) All PCP Compound units are manufactured by Genesis Air, Inc or IAQ Solutions, Inc.
- 5) All racks are galvanized steel
- 6) All racks are either front loaded or side loaded

Table 2 - Genesis Air / IAQ Solutions Air Populated Catalyst Panel Rack Setup¹

| Rows of Compounds | Columns of Compounds | | | |
|-------------------|----------------------|------|---|------|
| | 1 | 2 | 3 | 4 |
| 1 | X | X | X | X |
| 2 | X | X | X | X |
| 3 | X | UUT1 | X | X |
| 4 | X | X | X | X |
| 5 | X | X | X | X |
| 6 | X | UUT2 | X | UUT2 |

1) Vertical filtration panels are attached at the top & bottom only for installation in rigid and flexibly supported conditions. Panels installed in ducts or in horizontal position are excluded from this OSP certification.

Table 3 - Genesis Air / IAQ Solutions Populated Catalyst Panel Electrical Box¹

| Genesis Air / IAQ Solutions Part Number | Height [in] | Width [in] | Depth [in] | Weight [lbs] | Manufacturer | UUT |
|---|---------------|--------------|--------------|----------------|-----------------------------|------------|
| 4CKB-4 | 20 | 20 | 6 | 60 | Genesis Air / IAQ Solutions | UUT3, UUT4 |

1) Vertical Post Mounted Rigid

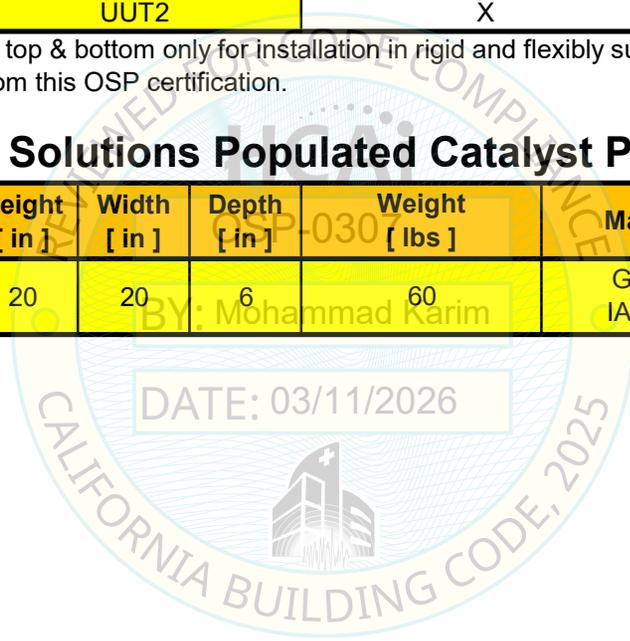


Table 4 - Certified Catalyst Panel Subcomponents

| Component (MFR) | Genesis Air / IAQ Solutions Part Number | Notes | Material | Weight ¹ [lbs] | UUT |
|---|--|--|-------------|-----------------------------|--------------|
| Ballast (Fulham) | WH5-120-L | 120VAC 50/60Hz | Al | 1.00 | UUT1, UUT2 |
| UV Lamp (First Light) | 12.0" | 0.224 A | Glass | 0.18 | UUT1 |
| | 16.0" | 0.296 A | Glass | 0.22 | UUT1 |
| | 20.0" | 0.367 A | Glass | 0.25 | UUT1 |
| | 24.0" | 0.519 A | Glass | 0.27 | Interpolated |
| | 28.0" | 0.604 A | Glass | 0.30 | UUT1 |
| | 31.5" | 0.659 A | Glass | 0.32 | Interpolated |
| | 36.0" | 0.752 A | Glass | 0.35 | Interpolated |
| | 40.0" | 0.844 A | Glass | 0.39 | Interpolated |
| | 44.0" | 0.908 A | Glass | 0.43 | Interpolated |
| | 48.0" | 0.981 A | Glass | 0.47 | Interpolated |
| | 51.5" | 1.033 A | Glass | 0.50 | UUT1, UUT2 |
| 55.0" | 1.105 A | Glass | 0.51 | Interpolated | |
| 59.0" | 1.170 A | Glass | 0.52 | UUT1, UUT2 | |
| Rack (Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs) | Side-load or Front-load (face-load) | 12 ga Galvanized for all uprights; 18 galvanized for the rest. | Sheet Metal | 4.5lb/ft2 (155/350) | UUT1, UUT2 |
| Ballast Tray (Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs) | 12B-G | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 2 (8) | UUT1 |
| | 12B-S | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 2 (4) | UUT1 |
| | 16B-G | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 2.75 | Interpolated |
| | 16B-S | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 2.75 | Interpolated |
| | 20B-G | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 3.25 | Interpolated |
| | 20B-S | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 3.25 | Interpolated |
| | 24B-G | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 4 (48) | UUT2 |
| | 24B-S | 18 ga Galvanized or 304 Stainless Steel | Sheet Metal | 4 (8) | UUT2 |
| Spacer (Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs) | Air gap filler on rack; varies per AHU; non-structural | 18 ga Galvanized | Sheet Metal | 4.5lb/ft2 (14/10) | UUT1, UUT2 |
| Catalyst Media (Lewcott) | Titanium Oxide mesh that fills the panel | TiO2 | Fiberglass | 0.5lb/ft2 (12/32) | UUT1, UUT2 |

Note: ¹Unless otherwise noted, items with a weight in parentheses represent the total weight; the number without is lb/ft of the component.

Table 5 - Certified Electrical Box Subcomponents

| Component (MFR) | Genesis Air / IAQ Solutions Part Number | Notes | Material | Weight [lbs] | UUT |
|---------------------------------------|---|-----------------------|-------------|----------------|------------|
| Contactor (ABB) | C-1 | 30A, 600VAC | Plastic | 0.75 | UUT3, UUT4 |
| Current Sensor (Senva) | CS-1 | 2.5-50A, 50/60 Hz | Plastic | 0.10 | UUT3, UUT4 |
| | CS-2 | 2.5-50A, 50/60 Hz | Plastic | 0.10 | UUT3, UUT4 |
| | CS-3 | 2.5-50A, 50/60 Hz | Plastic | 0.10 | UUT3, UUT4 |
| | CS-4 | 2.5-50A, 50/60 Hz | Plastic | 0.10 | UUT3, UUT4 |
| Safety Bypass (ABB) | PB-1 | 8A @ 120V | Plastic | 0.50 | UUT3, UUT4 |
| Differential Pressure Switch (Dwyer) | PS-1 | 15A @ 120VAC, 60 Hz | Metal | 0.75 | UUT3, UUT4 |
| Hour Meter (Redington) | TMR-1 | 20-300VAC/DC, 50/60z | Plastic | 0.10 | UUT3, UUT4 |
| Transformer (RIB) | XFMR-1 | 100VA, 50/60 Hz | Metal | 4.00 | UUT3, UUT4 |
| Fuse Holder (Ferraz Shawmut) | FB-1 | 30A, 600VAC/VDC | Plastic | 0.10 | UUT3, UUT4 |
| | FB-2 | 30A, 600VAC/VDC | Plastic | 0.10 | UUT3, UUT4 |
| | FB-3 | 30A, 600VAC/VDC | Plastic | 0.10 | UUT3, UUT4 |
| | FB-4 | 30A, 600VAC/VDC | Plastic | 0.10 | UUT3, UUT4 |
| Terminal Block (ABB) | ACC-1 | 25A, 600V | Plastic | 0.10 | UUT3, UUT4 |
| Mini-Fuse Holder (Phoenix Contac) | MF-1 | 8A, 600V | Plastic | 0.10 | UUT3, UUT4 |
| Cabinet (Universal Enclosure Systems) | ENC-1 | 14-Gauge Carbon Steel | Sheet Metal | 40.00 | UUT3, UUT4 |



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1A

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|---------------------------|--|-----------------------------|
| Populated Catalyst Panels | Qty (3) 1262G / Qty (2) 1253SS / Qty (1) 1253G | Genesis Air / IAQ Solutions |

Product Construction Summary

Primary Columns: 12-Gauge Galvanized Carbon Steel
Compound Tray, Top & Bottom Hat Channels: 18-Gauge Galvanized Carbon Steel

Options / Subcomponent Summary

Ballast: WH5-120-L, Fulham, Aluminum; UV Lamp: 12.0", 16.0", 20.0", 28.0", 51.5", 59.0", First Light, Glass; Rack: Side-load or Front-load (face load), Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Ballast Tray: 12B-G / 12B-S, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Spacer: Air gap filler on rack; varies per AHU; non-structural, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Catalyst Media: Titanium Oxide mesh that fills the panel, Lewcott, Fiberglass

UUT Properties

| Weight [lbs] | Dimensions [in] | | | Lowest Nat. Freq. [Hz] | | | | | | |
|----------------|-------------------|--|--------|--------------------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | Length | Width | Height | F-B | S-S | V | | | | |
| 292 | 8.0 | 130.0 | 40.0 | N/A | N/A | N/A | | | | |
| Building Code | Test Criteria | UUT Highest Passed Seismic Run Information | | | | | | | | |
| | | S _{DS} | z/h | H _f | R _μ | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigid mounted to the fixture using qty (34) #10 self-tapping screws along the top frame and qty (34) #10 self-tapping screws along the bottom frame. The fixture was rigid mounted to the shake table.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1B

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|---------------------------|--|-----------------------------|
| Populated Catalyst Panels | Qty (3) 1262G / Qty (2) 1253SS / Qty (1) 1253G | Genesis Air / IAQ Solutions |

Product Construction Summary

Primary Columns: 12-Gauge Galvanized Carbon Steel
Compound Tray, Top & Bottom Hat Channels: 18-Gauge Galvanized Carbon Steel

Options / Subcomponent Summary

Ballast: WH5-120-L, Fulham, Aluminum; UV Lamp: 12.0", 16.0", 20.0", 28.0", 51.5", 59.0", First Light, Glass; Rack: Side-load or Front-load (face load), Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Ballast Tray: 12B-G / 12B-S, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Spacer: Air gap filler on rack; varies per AHU; non-structural, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Catalyst Media: Titanium Oxide mesh that fills the panel, Lewcote, Fiberglass

UUT Properties

| Weight [lbs] | Dimensions [in] | | | Lowest Nat. Freq. [Hz] | | |
|----------------|-------------------|-------|--------|--------------------------|-----|-----|
| | Length | Width | Height | F-B | S-S | V |
| 292 | 8.0 | 130.0 | 40.0 | N/A | N/A | N/A |

| Building Code | Test Criteria | UUT Highest Passed Seismic Run Information | | | | | | | | |
|---------------|-----------------|--|-----|----------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | | S _{DS} | z/h | H _f | R _μ | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigid mounted to the fixture using qty (34) #10 self-tapping screws along the top frame and qty (34) #10 self-tapping screws along the bottom frame. The fixture was flexibly mounted to the shake table using MSSH-1E spring isolators.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-2A

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|---------------------------|--|-----------------------------|
| Populated Catalyst Panels | Qty (6) 2412G / Qty (2) 2416G / Qty (2) 2421G / Qty (2) 2421G / Qty (2) 2428SS / Qty (2) 2453G / Qty (2) 2462 SS | Genesis Air / IAQ Solutions |

Product Construction Summary

Primary Columns: 12-Gauge Galvanized Carbon Steel
Compound Tray, Top & Bottom Hat Channels: 18-Gauge Galvanized Carbon Steel

Options / Subcomponent Summary

Ballast: WH5-120-L, Fulham, Aluminum; UV Lamp: 51.5", 59.0", First Light, Glass; Rack: Side-load or Front-load (face load), Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Ballast Tray: 24B-G / 24B-S, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Spacer: Air gap filler on rack; varies per AHU; non-structural, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Catalyst Media: Titanium Oxide mesh that fills the panel, Lewcott, Fiberglass

UUT Properties

| Weight [lbs] | Dimensions [in] | | | Lowest Nat. Freq. [Hz] | | | | | | |
|----------------|-------------------|--|--------|--------------------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | Length | Width | Height | F-B | S-S | V | | | | |
| 750 | 12.0 | 83.0 | 148.0 | N/A | N/A | N/A | | | | |
| Building Code | Test Criteria | UUT Highest Passed Seismic Run Information | | | | | | | | |
| | | S _{DS} | z/h | H _f | R _μ | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigid mounted to the fixture using qty (28) #10 self-tapping screws along the top frame and qty (28) #10 self-tapping screws along the bottom frame. The fixture was rigid mounted to the shake table.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.





UNIT UNDER TEST (UUT) Summary Sheet

UUT-2B

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|---------------------------|--|-----------------------------|
| Populated Catalyst Panels | Qty (6) 2412G / Qty (2) 2416G / Qty (2) 2421G / Qty (2) 2421G / Qty (2) 2428SS / Qty (2) 2453G / Qty (2) 2462 SS | Genesis Air / IAQ Solutions |

Product Construction Summary

Primary Columns: 12-Gauge Galvanized Carbon Steel
Compound Tray, Top & Bottom Hat Channels: 18-Gauge Galvanized Carbon Steel

Options / Subcomponent Summary

Ballast: WH5-120-L, Fulham, Aluminum; UV Lamp: 51.5", 59.0", First Light, Glass; Rack: Side-load or Front-load (face load), Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Ballast Tray: 24B-G / 24B-S, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Spacer: Air gap filler on rack; varies per AHU; non-structural, Genesis Air / IAQ Solutions / Texas Sheet Metal, 7Cs, Sheet Metal; Catalyst Media: Titanium Oxide mesh that fills the panel, Lewcott, Fiberglass

UUT Properties

| Weight [lbs] | Dimensions [in] | | | Lowest Nat. Freq. [Hz] | | |
|----------------|-------------------|-------|--------|--------------------------|-----|-----|
| | Length | Width | Height | F-B | S-S | V |
| 750 | 12.0 | 83.0 | 148.0 | N/A | N/A | N/A |

UUT Highest Passed Seismic Run Information

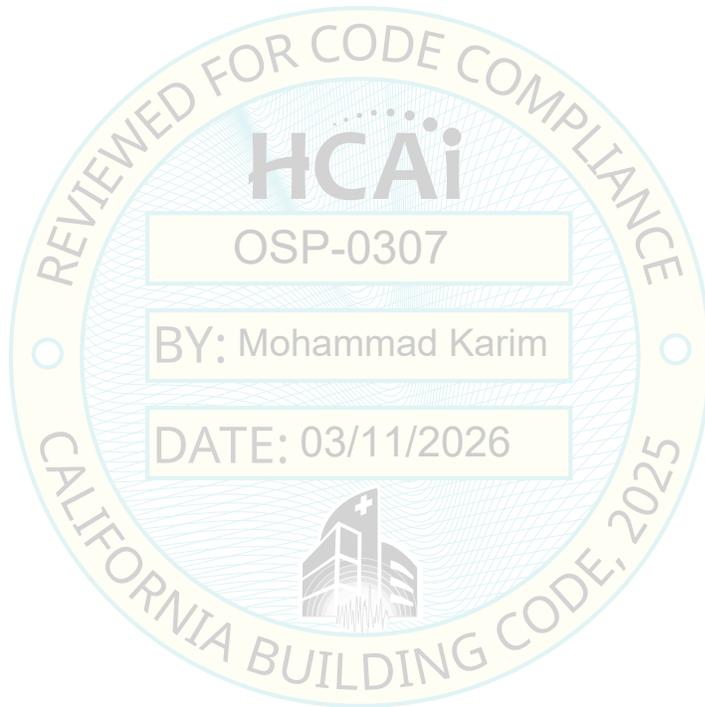
| Building Code | Test Criteria | Seismic Run Information | | | | | | | | |
|---------------|-----------------|-------------------------|-----|----------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | | S _{DS} | z/h | H _f | R _p | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigid mounted to the fixture using qty (28) #10 self-tapping screws along the top frame and qty (28) #10 self-tapping screws along the bottom frame. The fixture was flexibly mounted to the shake table using MSSH-1E spring isolators.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.





UNIT UNDER TEST (UUT) Summary Sheet

UUT-3A

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|----------------------|--------------|-----------------------------|
| Electrical Panel Box | 4CKB-4 | Genesis Air / IAQ Solutions |

Product Construction Summary

Cabinet: 14-Gauge Carbon Steel

Options / Subcomponent Summary

Contactor: C-1, ABB, Plastic; Current Sensor: CS-1, 2, 3, 4, Senva, Plastic; Safety Bypass: PB-1, ABB, Plastic; Differential Pressure Switch: PS-1, Dwyer, Metal; Hour Meter: TMR-1, Redington, Plastic; Transformer: XFMR-1, RIB, Metal; Fuse Holder: FB-1, 2, 3, 4, Ferraz Shawmut, Plastic; Terminal Block: ACC-1, ABB, Plastic; Mini-Fuse Holder: MF-1, Phoenix Contac, Plastic; Cabinet: ENC-1, Universal Enclosure Systems, Sheet Metal

UUT Properties

| Weight [lbs] | Dimensions [in] | | | Lowest Nat. Freq. [Hz] | | | | | | |
|----------------|-------------------|--|--------|--------------------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | Length | Width | Height | F-B | S-S | V | | | | |
| 65 | 6.0 | 20.0 | 20.0 | N/A | N/A | N/A | | | | |
| Building Code | Test Criteria | UUT Highest Passed Seismic Run Information | | | | | | | | |
| | | S _{DS} | z/h | H _f | R _μ | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigid mounted to the vertical post of the fixture using qty (4) 5/16"-18 all-thread with nut, lock, and flat washer. The fixture was rigid mounted to the shake table.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-3B

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|----------------------|--------------|-----------------------------|
| Electrical Panel Box | 4CKB-4 | Genesis Air / IAQ Solutions |

Product Construction Summary

Cabinet: 14-Gauge Carbon Steel

Options / Subcomponent Summary

Contactors: C-1, ABB, Plastic; Current Sensor: CS-1, 2, 3, 5, Senva, Plastic; Safety Bypass: PB-1, ABB, Plastic; Differential Pressure Switch: PS-1, Dwyer, Metal; Hour Meter: TMR-1, Redington, Plastic; Transformer: XFMR-1, RIB, Metal; Fuse Holder: FB-1, 2, 3, 5, Ferraz Shawmut, Plastic; Terminal Block: ACC-1, ABB, Plastic; Mini-Fuse Holder: MF-1, Phoenix Contac, Plastic; Cabinet: ENC-1, Universal Enclosure Systems, Sheet Metal

UUT Properties

| Weight [lbs] | Dimensions [in] | | | Lowest Nat. Freq. [Hz] | | |
|----------------|-------------------|-------|--------|--------------------------|-----|-----|
| | Length | Width | Height | F-B | S-S | V |
| 65 | 6.0 | 20.0 | 20.0 | N/A | N/A | N/A |

| Building Code | Test Criteria | UUT Highest Passed Seismic Run Information | | | | | | | | |
|---------------|-----------------|--|-----|----------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | | S _{DS} | z/h | H _f | R _μ | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigidly mounted to the vertical post of the fixture using qty (4) 5/16"-18 all-thread with nut, lock, and flat washer. The fixture was flexibly mounted to the shake table using MSSH-1E spring isolators.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-4A

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|----------------------|--------------|-----------------------------|
| Electrical Panel Box | 4CKB-4 | Genesis Air / IAQ Solutions |

Product Construction Summary

Cabinet: 14-Gauge Carbon Steel

Options / Subcomponent Summary

Contactor: C-1, ABB, Plastic; Current Sensor: CS-1, 2, 3, 6, Senva, Plastic; Safety Bypass: PB-1, ABB, Plastic; Differential Pressure Switch: PS-1, Dwyer, Metal; Hour Meter: TMR-1, Redington, Plastic; Transformer: XFMR-1, RIB, Metal; Fuse Holder: FB-1, 2, 3, 6, Ferraz Shawmut, Plastic; Terminal Block: ACC-1, ABB, Plastic; Mini-Fuse Holder: MF-1, Phoenix Contac, Plastic; Cabinet: ENC-1, Universal Enclosure Systems, Sheet Metal

UUT Properties

| Weight [lbs] | Dimensions [in] | | | Lowest Nat. Freq. [Hz] | | | | | | |
|----------------|-------------------|--|--------|--------------------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|
| | Length | Width | Height | F-B | S-S | V | | | | |
| 65 | 6.0 | 20.0 | 20.0 | N/A | N/A | N/A | | | | |
| Building Code | Test Criteria | UUT Highest Passed Seismic Run Information | | | | | | | | |
| | | S _{DS} | z/h | H _f | R _μ | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigid mounted to the vertical post of the fixture using qty (4) 5/16"-18 all-thread with nut, lock, and flat washer. The fixture was rigid mounted to the shake table.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-4B

Test Report: EL:10268; Test Lab: Clark; Test Reporting: Clark; Test Dates: 8/1-8/6 2012

| Model Line | Model Number | Manufacturer |
|----------------------|--------------|-----------------------------|
| Electrical Panel Box | 4CKB-4 | Genesis Air / IAQ Solutions |

Product Construction Summary

Cabinet: 14-Gauge Carbon Steel

Options / Subcomponent Summary

Contactors: C-1, ABB, Plastic; Current Sensor: CS-1, 2, 3, 7, Senva, Plastic; Safety Bypass: PB-1, ABB, Plastic; Differential Pressure Switch: PS-1, Dwyer, Metal; Hour Meter: TMR-1, Redington, Plastic; Transformer: XFMR-1, RIB, Metal; Fuse Holder: FB-1, 2, 3, 7, Ferraz Shawmut, Plastic; Terminal Block: ACC-1, ABB, Plastic; Mini-Fuse Holder: MF-1, Phoenix Contac, Plastic; Cabinet: ENC-1, Universal Enclosure Systems, Sheet Metal

| UUT Properties | | | | | | | | | | |
|----------------|--------------------|-------------------|-------|--|-----|----------------|--------------------------|----------------|--------------------|--------------------|
| Weight [lbs] | | Dimensions [in] | | | | | Lowest Nat. Freq. [Hz] | | | |
| | | Length | Width | Height | F-B | S-S | V | | | |
| 65 | | 6.0 | 20.0 | 20.0 | N/A | N/A | N/A | | | |
| Building Code | | Test Criteria | | UUT Highest Passed Seismic Run Information | | | | | | |
| | | | | S _{DS} | z/h | H _f | R _μ | I _p | A _{FLX-H} | A _{RIG-H} |
| CBC 2025 | ICC-ES AC156-24 | 2.00 | 1.0 | 3.5 | 1.3 | 1.5 | 3.20 | 2.40 | 1.34 | 0.54 |

Test Mounting Details

The UUT was rigidly mounted to the vertical post of the fixture using qty (4) 5/16"-18 all-thread with nut, lock, and flat washer. The fixture was flexibly mounted to the shake table using MSSH-1E spring isolators.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.