

CLIENT: SunModo Corporation
14800 NE 65th Street
Vancouver, WA 98682

| | |
|------------------------------|---------------------------------------|
| Project No: MED-1200a | Report Date: December 27, 2023 |
|------------------------------|---------------------------------------|

SAMPLE ID: Series: K50063-BK1 NanoMount Rafter and NanoMount Deck Mounts

SAMPLING DETAIL: The test sample manufactured by SunModo Corporation was submitted directly to QAI by the client. Samples were not independently selected for testing.

DATE OF RECEIPT: Samples were received at the QAI Miami Laboratory on October 18, 2023, and in good condition.

TESTING PERIOD: December 18, 2023

TESTING LOCATION: QAI Laboratories – Miami, Florida, USA

AUTHORIZATION: QAI proposal number 23MT09261 dated September 26, 2023, signed by Roland Jasmin, Director of Engineering of SunModo Corporation, dated October 2, 2023.

TEST PROCEDURE: Testing to the following requirements:

- TAS 100-23(A) Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at The Ridge Area

TEST RESULTS: The four samples of each Series: K50063-BK1 NanoMount Rafter and NanoMount Deck Mounts achieved passing results found on pages 3-4 of this test report when tested in accordance with the TAS 100-23(A).

CONTENTS: Test report pages 1 through 19.

Prepared By
Lusinda Delgado
Lusinda Delgado
Technical Report Writer

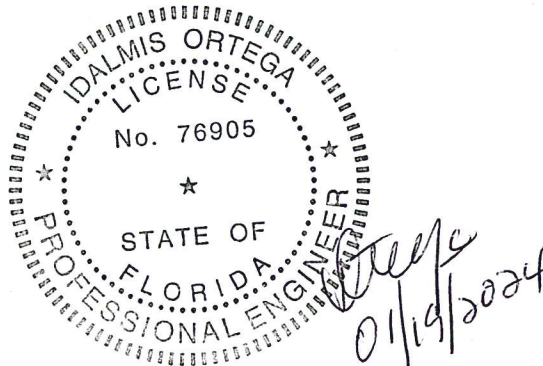
Signed for and on behalf of
QAI Laboratory
[Signature]
Digitally signed
by Jose Sanchez
Date: 2024.01.18
12:41:28 -05'00'
Jose Sanchez
Operation Manager



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| DESCRIPTION OF SAMPLE | |
|--|---|
| Model Designation: | Series: K50063-BK1 NanoMount Rafter Mount |
| Sample A-1 | |
| Test Deck: Test deck was constructed by QAI Laboratory. The deck consisted of APA 32/16 span rated sheathing of 15/32" thickness Grade C-D with 3 ply installed over 2" by 6" perimeter supports and 2" by 6" intermediate supports spaced 24" apart. The sheathing was attached using 8d common nails at 6" on centers at panel edges and 12" on centers at intermediate supports. The test deck had a test slope of 2/12. | |
| Underlayment: The underlayment used on test deck consisted of self-adhering polystick IR-X | |
| Metal Flashing: One 2 1/2" by 2 1/2" by 26"-gauge galvanized metal flashing was installed at the perimeter of the deck over the underlayment and fastened using a staggered row of a 1 1/4" long corrosion resistant ring shank nail. | |
| Roof Shingles: Asphalt shingles installed throughout the roof deck as per the Florida Building Code HVAZ. | |
| NanoMount Rafter (Part No. K50063-BK1) Installation: The NanoMount rafter mount was installed over rafters using one 5/16" lag screw with a sealing washer. Roof sealant was applied on the bottom of the NanoMount prior to fastening. | |
| Method of Conditioning: The roof deck was conditioned for 3 days exposure to outside environment conditions. The roof deck temperature was verified each day with a thermocouple and was maintained above 120°F for six hours each day. | |

| Interval # | Wind Speed (mph) | Time (min) | Observations | Results |
|------------|------------------|------------|--------------|---------|
| 1 | 35 | 15 | No leak | Passed |
| 2 | 0 | 5 | No leak | Passed |
| 3 | 70 | 15 | No leak | Passed |
| 4 | 0 | 5 | No leak | Passed |
| 5 | 90 | 15 | No leak | Passed |
| 6 | 0 | 5 | No leak | Passed |
| 7 | 110 | 5 | No leak | Passed |
| 8 | 0 | 5 | No leak | Passed |

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| DESCRIPTION OF SAMPLE | |
|--|---|
| Model Designation: | Series: K50063-BK1 NanoMount Deck Mount |
| Sample B-1 | |
| Test Deck: Test deck was constructed by QAI Laboratory. The deck consisted of APA 32/16 span rated sheathing of 15/32" thickness Grade C-D with 3 ply installed over 2" by 6" perimeter supports and 2" by 6" intermediate supports spaced 24" apart. The sheathing was attached using 8d common nails at 6" on centers at panel edges and 12" on centers at intermediate supports. The test deck had a test slope of 2/12. | |
| Underlayment: The underlayment used on test deck consisted of self-adhering polystick IR-X | |
| Metal Flashing: One 2 1/2" by 2 1/2" by 26"-gauge galvanized metal flashing was installed at the perimeter of the deck over the underlayment and fastened using a staggered row of a 1 1/4" long corrosion resistant ring shank nail. | |
| Roof Shingles: Asphalt shingles installed throughout the roof deck as per the Florida Building Code HVAZ. | |
| NanoMount Rafter (Part No. K50063-BK1) Installation: The NanoMount deck mount was installed over plywood sheathing using five 14 x 3" self-tapping hex head screws with a sealing washer. Roof sealant was applied on the bottom of the NanoMount prior to fastening. | |
| Method of Conditioning: The roof deck was conditioned for 3 days exposure to outside environment conditions. The roof deck temperature was verified each day with a thermocouple and was maintained above 120°F for six hours each day. | |

| Interval # | Wind Speed (mph) | Time (min) | Observations | Results |
|------------|------------------|------------|--------------|---------|
| 1 | 35 | 15 | No leak | Passed |
| 2 | 0 | 5 | No leak | Passed |
| 3 | 70 | 15 | No leak | Passed |
| 4 | 0 | 5 | No leak | Passed |
| 5 | 90 | 15 | No leak | Passed |
| 6 | 0 | 5 | No leak | Passed |
| 7 | 110 | 5 | No leak | Passed |
| 8 | 0 | 5 | No leak | Passed |

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Immediately after commencement of interval 1 top side



Immediately after commencement of interval 1 bottom side



30 seconds prior to completion of interval 1 top side



30 seconds prior to completion of interval 1 bottom side



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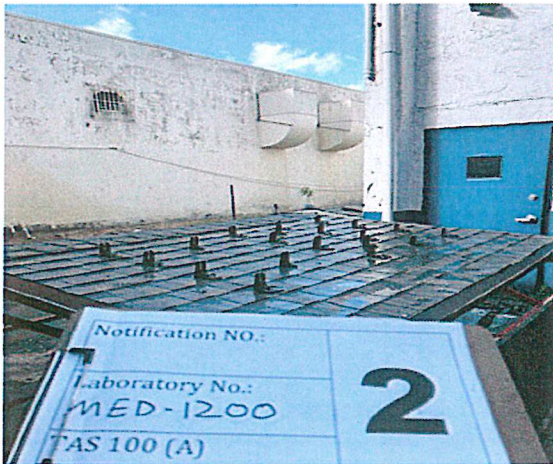
Immediately after commencement of interval 2 top side



Immediately after commencement of interval 2 bottom side



30 seconds prior to completion of interval 2 top side



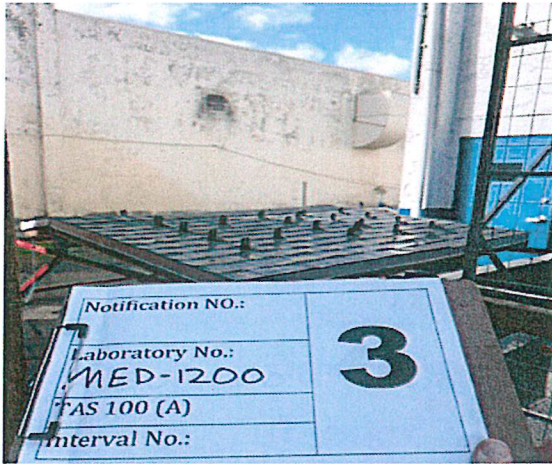
30 seconds prior to completion of interval 2 bottom side



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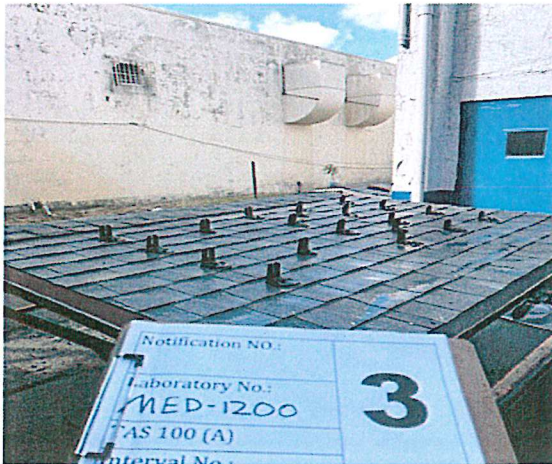
Immediately after commencement of interval 3 top side



Immediately after commencement of interval 3 bottom side



30 seconds prior to completion of interval 3 top side



30 seconds prior to completion of interval 3 bottom side



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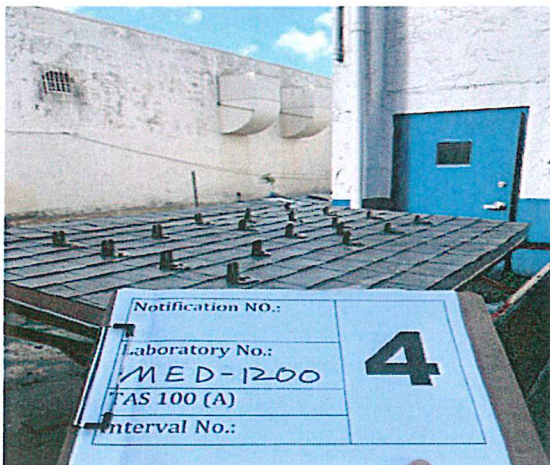
Immediately after commencement of interval 4 top side



Immediately after commencement of interval 4 bottom side



30 seconds prior to completion of interval 4 top side



30 seconds prior to completion of interval 4 bottom side



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Immediately after commencement of interval 5 top side



Immediately after commencement of interval 5 bottom side



30 seconds prior to completion of interval 5 top side



30 seconds prior to completion of interval 5 bottom side



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Immediately after commencement of interval 6 top side



Immediately after commencement of interval 6 bottom side



30 seconds prior to completion of interval 6 top side



30 seconds prior to completion of interval 6 bottom side



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Immediately after commencement of interval 7 top side



Immediately after commencement of interval 7 bottom side



30 seconds prior to completion of interval 7 top side



30 seconds prior to completion of interval 7 bottom side



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Immediately after commencement of interval 8 top side



Immediately after commencement of interval 8 bottom side



30 seconds prior to completion of interval 8 top side



30 seconds prior to completion of interval 8 bottom side



Conclusion: The sample tested has passed the Florida Building Code TAS 100(a)-95 with no deviation.

Appendix A: Calibration records

Appendix – B 0.05% Maximum Allowable Leakage Calculations

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TAS 100 (A) Calibration Records

Appendix A

Technician: Jose Sanchez
Date: 9/19/2023

Temperature: 73.6° F
Barometer Reading: 30.06 inHg

Wind Stream Calibration

Engine RPM: 1200 @ 35 MPH

| | | | |
|------------|------------|------------|------------|
| 32.0 (mph) | 34.0 (mph) | 33.0 (mph) | 34.0 (mph) |
| 32.0 (mph) | 33.0 (mph) | 32.0 (mph) | 33.0 (mph) |

Engine RPM: 2300 @ 70 MPH

| | | | |
|------------|------------|------------|------------|
| 71.0 (mph) | 69.0 (mph) | 71.0 (mph) | 69.0 (mph) |
| 69.0 (mph) | 71.0 (mph) | 71.0 (mph) | 72.0 (mph) |

Engine RPM: 3200 @ 90 MPH

| | | | |
|------------|------------|------------|------------|
| 90.0 (mph) | 88.0 (mph) | 91.0 (mph) | 92.0 (mph) |
| 92.0 (mph) | 90.0 (mph) | 91.0 (mph) | 89.0 (mph) |

Engine RPM: 4100 @ 110 MPH

| | | | |
|-------------|-------------|-------------|-------------|
| 109.0 (mph) | 108.0 (mph) | 111.0 (mph) | 110.0 (mph) |
| 108.0 (mph) | 112.0 (mph) | 108.0 (mph) | 111.0 (mph) |

Engine RPM: 4300 @ 115 MPH

| | | | |
|-------------|-------------|-------------|-------------|
| 118.0 (mph) | 115.0 (mph) | 116.0 (mph) | 116.0 (mph) |
| 116.0 (mph) | 114.0 (mph) | 116.0 (mph) | 114.0 (mph) |

Revised: 6/2/2014

Author Jose Sanchez
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Form Number IN 509-27

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TAS 100 (A) Calibration Records
Wind Stream Calibration

Engine RPM: 4400 @ 120 MPH

| | | | |
|------------|------------|------------|------------|
| 119.0(mph) | 119.0(mph) | 121.0(mph) | 121.0(mph) |
| 121.0(mph) | 120.0(mph) | 122.0(mph) | 120.0(mph) |

Engine RPM: 4800 @ 125 MPH

| | | | |
|------------|------------|------------|------------|
| 125.0(mph) | 125.0(mph) | 121.0(mph) | 125.0(mph) |
| 122.0(mph) | 126.0(mph) | 126.0(mph) | 124.0(mph) |

Engine RPM: 4900 @ 130 MPH

| | | | |
|------------|------------|------------|------------|
| 130.0(mph) | 131.0(mph) | 132.0(mph) | 131.0(mph) |
| 133.0(mph) | 134.0(mph) | 132.0(mph) | 132.0(mph) |

Engine RPM: 5100 @ 135 MPH

| | | | |
|------------|------------|------------|------------|
| 135.0(mph) | 133.0(mph) | 135.0(mph) | 133.0(mph) |
| 135.0(mph) | 134.0(mph) | 133.0(mph) | 134.0(mph) |

Engine RPM: 5300 @ 140 MPH

| | | | |
|------------|------------|------------|------------|
| 141.0(mph) | 139.0(mph) | 141.0(mph) | 143.0(mph) |
| 140.0(mph) | 142.0(mph) | 139.0(mph) | 138.0(mph) |

Wind speed (mph) shall not exceed or decrease any more than $\pm 10\%$ of the required wind speed as per TAS 100-95(A) section 7.1.2

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TAS 100 (A) Calibration Records

Simulated Rainfall and Flow Meter Calibration

| Reading # | Flow meter read out gallon/minute | inches/hour | Allowable Standard Tolerance $\pm 5\%$ of 8.8 |
|-----------|-----------------------------------|-------------|---|
| 1 | 4.3 | 8.62 | 8.36-9.24 in/hr |
| 2 | 4.3 | 8.62 | 8.36-9.24 in/hr |
| 3 | 4.3 | 8.62 | 8.36-9.24 in/hr |

Section 7.2.3

Formula:

$$[(\text{Gal}/\text{min}) \times (60 \text{ min}/1 \text{ hr}) \times (231 \text{ in}^3/1 \text{ gal})] / 6912 \text{ in}^2 = \text{inches}/\text{hour}$$

Simulated Rainfall and Flow Meter Calibration

Status- 1 minute filling time

| Test Number | Weight of Water Bucket | Weight of Bucket Tare | Weight of Water | Divide | Weight of One Gallon | Gallon/minute Collected | Inches/hour | Allowable Standard Tolerance $\pm 5\%$ of 7.2.3 |
|-------------|------------------------|-----------------------|-----------------|--------|----------------------|-------------------------|-------------|---|
| 1 | 36 lbs | (-) 1.0 lbs | 35 lbs | / | 8.34 lbs | 4.19 | 8.40 | 8.19-9.05 in/hr |
| 2 | 36 lbs | (-) 1.0 lbs | 35 lbs | / | 8.34 lbs | 4.19 | 8.40 | 8.38-9.26 in/hr |
| 3 | 35 lbs | (-) 1.0 lbs | 34 lbs | / | 8.34 lbs | 4.08 | 8.18 | 8.38-9.26 in/hr |

Section: 7.2.5

Formula:

$$[(\text{inches}^3/6912 \text{ inches}^2)/1 \text{ minute}] \times (60 \text{ minutes}/1 \text{ hour}) = \text{inches}/\text{hour}$$

Note: 231 in³ = 1 gallon

Water Distribution Check

10) 24"x24" Absorbent Cloth Material

| | | | | |
|----------|----------|----------|----------|-----------|
| #1) 244g | #2) 241g | #3) 251g | #4) 247g | #5) 250g |
| #6) 242g | #7) 242g | #8) 246g | #9) 247g | #10) 251g |

Total of all ten squares= 2461 g

Average of ten squares= 246 g

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TAS 100 (A) Calibration Records
 Water Distribution Check @ 35 (mph)

| | | | |
|--|---|---|--|
| Reading #1 Total Weight <u>915g</u> (-) tare <u>246g</u> = <u>669g</u> = <u>0.59 inches/hour</u> | Reading #2 Total Weight <u>936g</u> (-) tare <u>246g</u> = <u>690g</u> = <u>0.61 inches/hour</u> | Reading #3 Total Weight <u>936g</u> (-) tare <u>246g</u> = <u>690g</u> = <u>0.61 inches/hour</u> | Reading #4 Total Weight <u>935g</u> (-) tare <u>246g</u> = <u>689g</u> = <u>0.61 inches/hour</u> |
| Reading #5 Total Weight <u>924g</u> (-) tare <u>246g</u> = <u>678g</u> = <u>0.60 inches/hour</u> | Reading #6 Total Weight <u>924g</u> (-) tare <u>246g</u> = <u>678g</u> = <u>0.60 inches/hour</u> | Reading #7 Total Weight <u>912g</u> (-) tare <u>246g</u> = <u>666g</u> = <u>0.59 inches/hour</u> | Reading #8 Total Weight <u>952g</u> (-) tare <u>246g</u> = <u>706g</u> = <u>0.62 inches/hour</u> |
| Reading #9 Total Weight <u>929g</u> (-) tare <u>246g</u> = <u>683g</u> = <u>0.60 inches/hour</u> | Reading #10 Total Weight <u>941g</u> (-) tare <u>246g</u> = <u>695g</u> = <u>0.61 inches/hour</u> | Reading #11 Total Weight <u>929g</u> (-) tare <u>246g</u> = <u>683g</u> = <u>0.60 inches/hour</u> | Reading #12 Total Weight <u>1000g</u> (-) tare <u>246g</u> = <u>754g</u> = <u>0.66 inches/hour</u> |

Formula: 7.3.5.1

1 gram = 0.061 inches³

$[(\text{in}^3/576^2) / (\text{hours})] = x$ (inches/hour)

Run Time = 0.12 hour

No one particular square shall be greater than or less than $\pm 15\%$ of any other square as per TAS 100(A)-95 Section 7.3.6

Revised: 6/2/2014

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TAS 100 (A) Calibration Records
 Water Distribution Check @ 70 (mph)

| | | | |
|---|--|--|---|
| Reading #1 Total Weight <u>1029g</u> (-) tare <u>246g</u> = <u>783g</u> = <u>0.69 inches/hour</u> | Reading #2 Total Weight <u>1020g</u> (-) tare <u>246g</u> = <u>774g</u> = <u>0.68 inches/hour</u> | Reading #3 Total Weight <u>1048g</u> (-) tare <u>246g</u> = <u>804g</u> = <u>0.71 inches/hour</u> | Reading #4 Total Weight <u>1028g</u> (-) tare <u>246g</u> = <u>782g</u> = <u>0.69 inches/hour</u> |
| Reading #5 Total Weight <u>1044g</u> (-) tare <u>246g</u> = <u>798g</u> = <u>0.70 inches/hour</u> | Reading #6 Total Weight <u>1018g</u> (-) tare <u>246g</u> = <u>772g</u> = <u>0.68 inches/hour</u> | Reading #7 Total Weight <u>1026g</u> (-) tare <u>246g</u> = <u>780g</u> = <u>0.69 inches/hour</u> | Reading #8 Total Weight <u>1042g</u> (-) tare <u>246g</u> = <u>796g</u> = <u>0.70 inches/hour</u> |
| Reading #9 Total Weight <u>1026g</u> (-) tare <u>246g</u> = <u>780g</u> = <u>0.69 inches/hour</u> | Reading #10 Total Weight <u>1044g</u> (-) tare <u>246g</u> = <u>798g</u> = <u>0.70 inches/hour</u> | Reading #11 Total Weight <u>1049g</u> (-) tare <u>246g</u> = <u>808g</u> = <u>0.71 inches/hour</u> | Reading #12 Total Weight <u>999g</u> (-) tare <u>246g</u> = <u>753g</u> = <u>0.66 inches/hour</u> |

Formula: 7.3.5.1

1 gram = 0.061 inches³

$[(\text{in}^3/576^2) / (\text{hours}) = x (\text{inches/hour})$

Run Time= 0.12 hour

No one particular square shall be greater than or less than ±10 % of any other square as per TAS 100(A)-95 Section 7.3.7.1

Revised: 6/2/2014

Author Jose Sanchez
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Form Number IN 509-27

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Appendix B

TAS 100(a)-95 0.05% Maximum Allowable Leakage Calculations

Test Frame Size:

8'-0" by 6'-0" or 6912 inches²

8.8 inches/hour of rain in a 15 minute duration:

(8.8 inches/hour) x (15 minutes) x (1hour/60 minutes) = 2.2 inches

2.2 inches of water sprayed over the test frame:

(6912 inches²) x (2.2 inches) = 15,206.4 inches³ of water

1 inch³ of water or 0.576 ounces of water

(15,206.4 inches³) x (0.576 ounces of water) = 8,758.8 ounces of water

0.05% maximum allowable:

(8,758.8) x (0.05%) = 4.379 ounces of water



Notes

* Designates measurements by laboratory
** as per manufacturer

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Drawings referenced in this document are an integral part of this report, therefore, are required when distributing this test report. Test results obtained represent the actual value of the tested specimens and do not constitute opinion, endorsement, or certification by this laboratory.

REMARKS

This product was tested and is in compliance with the Florida Building Code (2023) TAS 100-23(A) with no deviations.

See Appendix A for the calibration records as indicated in TAS 100-23(A). Total water sprayed was 8.8 inches per hour.

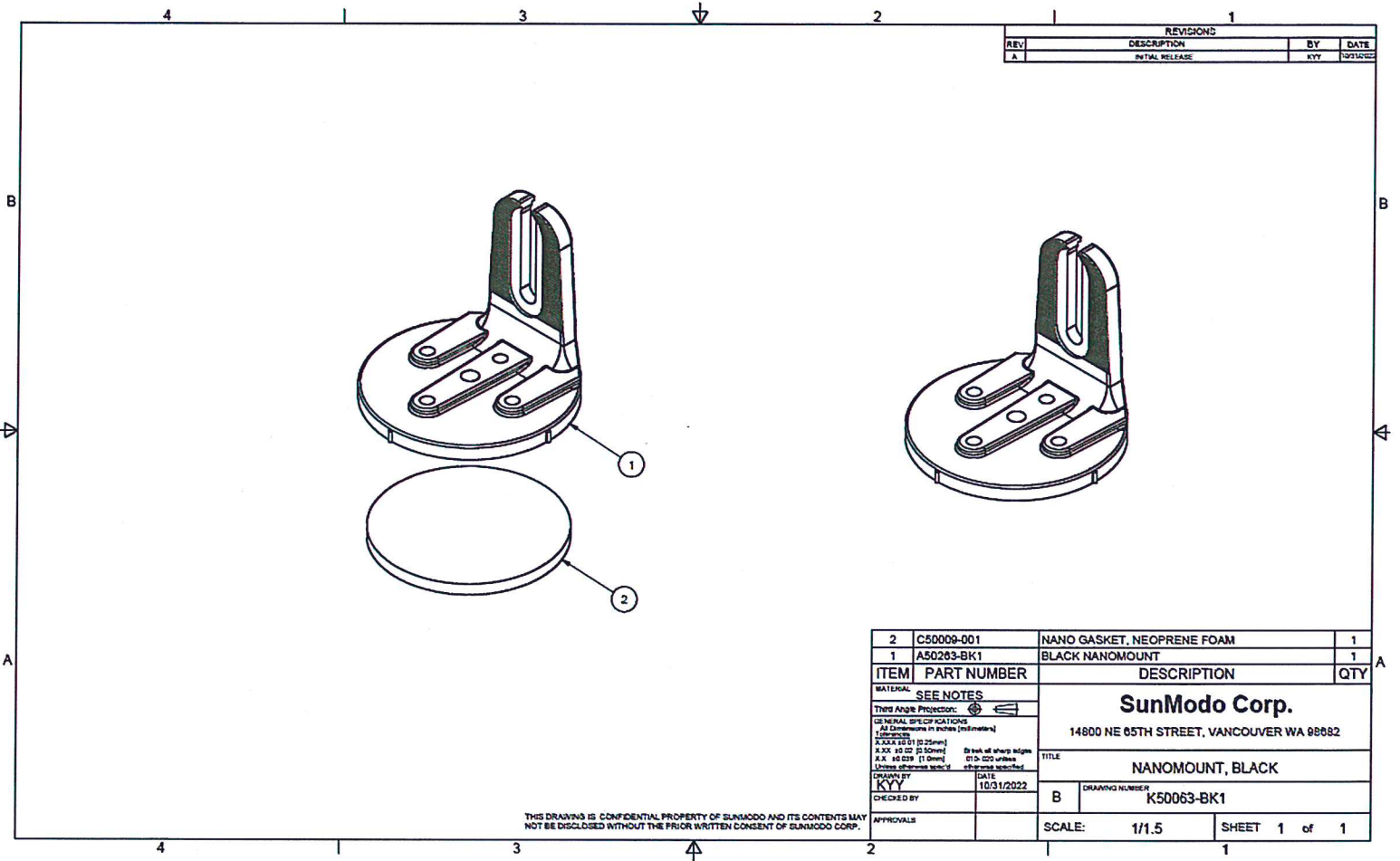
REVISION HISTORY:

12/27/2023: Initial report release

1/18/2024: Added part number and removed the word "New" from the description, per clients request.

*****END REPORT*****


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| REVISIONS | | | |
|-----------|-----------------|-----|------------|
| REV | DESCRIPTION | BY | DATE |
| A | INITIAL RELEASE | KYY | 10/31/2022 |

| 2 | C50009-001 | NANO GASKET, NEOPRENE FOAM | 1 |
|---|-------------|--|-----|
| 1 | A50263-BK1 | BLACK NANOMOUNT | 1 |
| ITEM | PART NUMBER | DESCRIPTION | QTY |
| MATERIAL: SEE NOTES | | | |
| Three Angle Projection <small>USE METRIC SPECIFICATIONS All Dimensions in inches (millimeters) Tolerances: X.XX & X.X1 (0.25mm) X.XX (0.02 (0.50mm)) X.X (0.039 (1.0mm)) Unless otherwise specified otherwise specified</small> | | SunModo Corp. 14800 NE 65TH STREET, VANCOUVER WA 98682 | |
| DRAWN BY: KYY CHECKED BY: APPROVALS: | | TITLE: NANOMOUNT, BLACK DRAWING NUMBER: B K50063-BK1 SCALE: 1/1.5 SHEET 1 of 1 | |
| DATE: 10/31/2022 | | | |

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| | |
|---|------------------------------|
|  | QAI LABORATORY |
| | LABORATORY NUMBER: MED-1200a |
| | DATE: 1/18/2024 |
| | DRAWINGS VERIFIED BY: LD |