

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

APPLICATION FOR HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0463

| HCAI Preapprova | l of Manufacturer's | Certification (OPM |
|-----------------|---------------------|---------------------------|
|-----------------|---------------------|---------------------------|

Type: X New Renewal/Update

Manufacturer Information

Manufacturer: bioMérieux, Inc.

Manufacturer's Technical Representative: Mehrdad Kianian

Mailing Address: 595 Anglum Road, Hazelwood, MO 63042

Telephone: (314) 731-8326

Email: mehrdad.kianian@biomerieux.com

Product Information

Product Name: VIRTUO® - INSTRUMENT FOR BLOOD CULTURE DETECTION

Product Type: Clinical instrument classified as other mechanical or electrical components per ASCE 7-10 Table 13.6-1.

Product Model Number: None provided

General Description: Automated clinical instrument for blood culture detection used in a hospital microbiology laboratory.

Applicant Information

Applicant Company Name: bioMérieux, Inc.

Contact Person: Mehrdad Kianian

Mailing Address: 595 Anglum Road, Hazelwood, MO 63042

Telephone: (314) 731-8326

Email: mehrdad.kianian@biomerieux.com

Title:

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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

| Registered De | sign Professonal Preparii | ng Engineering Reco | nmendations | | | |
|------------------------|---|--|---|--|--|--|
| Company Name: | CYS STRUCTURAL ENGIN | EERS, INC. | | | | |
| Name: David Ca | ame: David Calia California License Number: S5614 | | | | | |
| Mailing Address: | 2495 Natomas Park Drive, S | Suite #650, , Sacramento, | CA 95833 | | | |
| Telephone: () - | | Email: davidc@cys | seng.com | | | |
| | | | | | | |
| | | | | | | |
| HCAI Special S | Seismic Certification Prea | approval (OSP) | | | | |
| Special Seis | mic Certification is preapprove | ed under OSP | OSP Number: | | | |
| | | | | | | |
| | | CODA | | | | |
| Certification M | lethod | FOR CODE | CO | | | |
| Testing in accord | ance with: ICC-ES A | C156 FM 1950-1 | 6 | | | |
| X Other(s) (Ple | ease Specify): Calculations in | accordance with the 20 [°] | 16 CBC. | | | |
| and attachments | are not permitted. For distribu | ution system, interior part 2016 may be used when | dards Code, 2016 (CBSC 2016) for component supports ition wall, and suspended ceiling seismic bracings, test approved by HCAI prior to testing. | | | |
| X Analysis | | BY: Jeffrey Kik | | | | |
| | Data 💡 | DATE: 06/24/201 | | | | |
| Combination | of Testing, Analysis, and/or E | Experience Data (Please | Specify): | | | |
| | THO Y | RAVIA | CODÉ | | | |
| HCAI Approva | l | BUILDIN | 3 | | | |
| Date: 6/24/2019 |) | | | | | |
| Name: Jeffrey | Kikumoto | | Title: Senior Structural Engineer | | | |
| Condition of Appr | oval (if applicable): | | | | | |

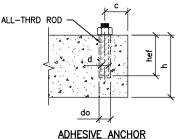




GENERAL NOTES:

- 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016. 2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO
- VERIFY: A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WEIGHT SPECIFIED
- FOR EA COMPONENT IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
- B. THAT THE ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPGS.
- C. THAT THE ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. THE SPACING SHOWN IN THE TEST VALUES TABLE ON THIS PAGE IS THE REQ SPACING FROM ANCHORS OF OTHER DIAMETERS & EMBEDMENTS WILL VARY.
- D. THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2016 CBC & WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.
- E. THAT THE ACTUAL EQUIPMENT'S WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, & THE MATERIAL & GAGE OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
- 3A. EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONC SHALL BE STAINLESS STEEL HILTI KB-TZ EXPANSION ANCHORS COMPLYING WITH ICC-ES ESR-1917 REISSUED MAY 2017. ADHESIVE ANCHORS INSTALLED IN NORMAL WEIGHT CONC SHALL BE ASTM F593 CW1 (316) INSTALLED USING HILTI HIT-RE 500 V3 ADHESIVE COMPLYING WITH ICC-ES ESR-3814 RE-ISSUED JANUARY 2017.
- B. INSTALLATION: INSTALL THE POST-INSTALLED DRILLED-IN CONC ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVEN IN THE TABLES ON THIS PAGE.
- C. TESTING:
- JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING IN ACCORDANCE WITH THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 50% OF THE INSTALLED ANCHORS. FOR TENSION TESTING, THE TEST LOAD MAY BE APPLIED BY ANY OPM METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK OR CALIBRATED SPRING LOADING DEVICES. FOR TORQUE TESTING, THE TEST LOAD SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY EFFT BE DONE PRIOR TO EQUIP INSTALLATION. ALSO REFER TO CBC 1910A.5.5 "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".
- FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF
 INSTALLED ANCHORS:
 - <u>HYDRAULIC RAM METHOD:</u> APPLY & HOLD TEST LOAD FOR A MIN OF 15 SECONDS. THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD WHERE WASHERS ARE USED. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE OR BY A CONTINUOUS LOSS OF JACKING PRESSURE.
 - •• <u>TORQUE WRENCH METHOD (EXPANSION ANCHORS ONLY)</u>: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: ONE-HALF (½) TURN OF THE NUT.

3D. TEST VALUES: APPLY TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT.

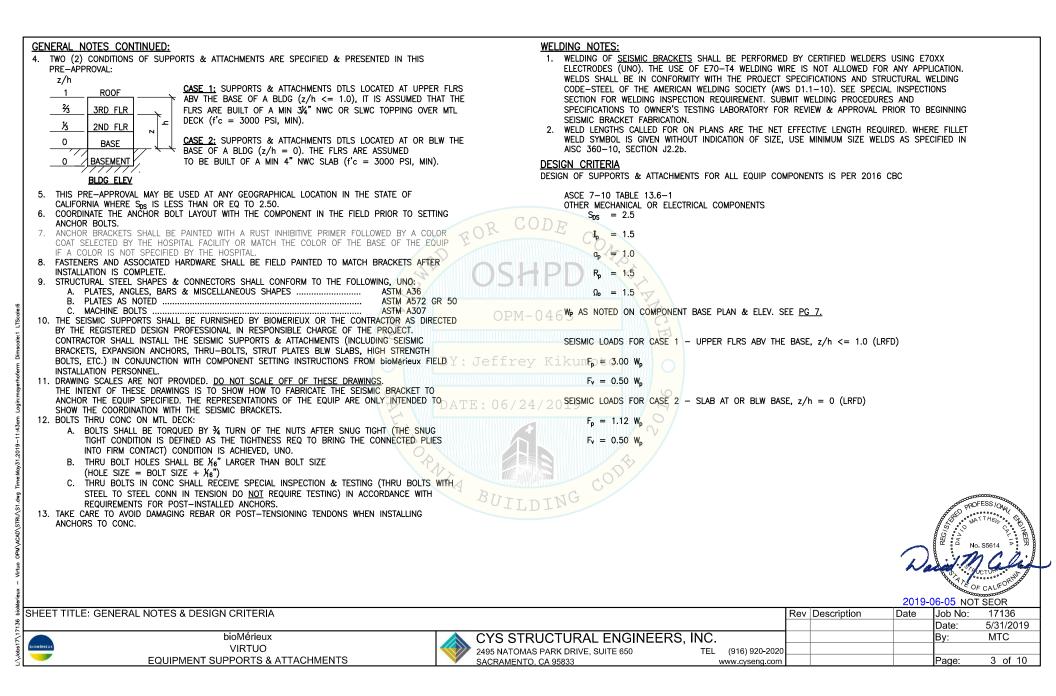


(THRD ROD / REINFORCING BAR)

| | POST-INSTALLED ADHESIVE ANCHOR SCHEDULE | | | | | | | |
|-----|---|--------------------------|-------------------------------------|--------------------------------------|---|------------------------------------|----------------------------|------------------------------|
| - | ANCHOR TYPE & DIA (INCH) d | HOLE DIA (INCH) do | EFFECTIVE EMBED (INCH) hef | MIN CONC THICKNESS (INCH) h | MIN CONC EDGE DISTANCE (INCH) c | MIN AB SPACING UNO (INCH) | tension test Load (LBS) | Condition Of Anchorage |
| — (| 4 2 HILTI HAS-R (ASTM F593 CW1 316 SS) ALL THRD ROD | 0.5625 | 2.75 | 4 | 12 | 6.75 | 2550 | CASE 2 |

| ey | Kikumoto POST-INSTALLED MECHANICAL ANCHOR SCHEDULE | | | | | | | | | | | | |
|-----|--|-----------------------|----------------|---------------|-------------|--------------------|--|-----------------------|--------------------|--------------------|--|-----------|--|
| | ANCHOR TYPE | INSTALLATION EMBED | | HOLE DEPTH | | | | | | TEST LOAD | | CONDITION | |
| 2.4 | / & DIA (INCH) | (INCH) hnom | (INCH) heff | (INCH) ho | (INCH) h | DISTANCE (INCH) | (INCH) | TENSION LOAD (LBS) | TORQUE (FT-LBS) | OF ANCHORAGE | | | |
| | KB–TZ 304 SS 0.375"ø | 2.3125 | 2.00 | 2.625 | SEE DTLS | 12 | 6.75 PARALLEL TO MTL DECK FLUTES | 1190 | 25 | CASE 1 | | | |
| | KB-TZ CS 0.5"ø | 2.375 | 2.00 | 2.625 | SEE DTLS | 12 | 6.75 PARALLEL TO MTL DECK FLUTES | - | 40 | CASE 1 & CASE 2 | | | |

| Merieux - V | | | | | 2019-(| 06-05 NOT | CALIFORNIC |
|-------------|----------------------------------|--|-----|-------------|--------|-----------|------------|
| <u>۽</u> ۾ | SHEET TITLE: GENERAL NOTES | | Rev | Description | Date | Job No: | 17136 |
| 136 | | | | | | Date: | 5/31/2019 |
| έſ | bioMérieux | \land CYS STRUCTURAL ENGINEERS, INC. | | | | By: | MTC |
| SO | VIRTUO | 2495 NATOMAS PARK DRIVE, SUITE 650 TEL (916) 920-202 | | | | | |
| Ľ | EQUIPMENT SUPPORTS & ATTACHMENTS | SACRAMENTO, CA 95833 www.cyseng.com | | | | Page: | 2 of 10 |



| | ABBREVIATIONS: Image: Construction of the second | L LENGTH LBS POUNDS LRFD LOAD & RESISTANCE FACTOR DESIGN LFRS LATERAL FORCE RESISTING SYSTEM MAX MAXIMUM MB MACHINE BOLT MFR MANUFACTURER MIN MINIMUM MTL METAL NO. (#) NUMBER OR POUNDS NTS NOT TO SCALE NS&FS NEAR SIDE & FAR SIDE NWC NORMAL WEIGHT CONCRETE OPG OPENING OSHPD OFFICE OF STATEWIDE HEALTH PLANNING |
|--|--|---|
| BY: Jeffrey DATE: 06/24 HROR 00 BY: Jeffrey DATE: 06/24 BUILD | FF FINISHED FLOOR FLG FLANGE FLR FLOOR FRMG FRAMING FT (') FOOT/FEET Fy SPECIFIED VIELD STRENGTH OF REINFORCING, PSI OR SPECIFIED MINIMUM VIELD STRESS OF STEEL, KSI GA GAUGE HEIGHT ICC INTERNATIONAL CODE COUNCIL | R RADIUS REQ REQUIRED SEOR STRUCTURAL ENGINEER OF RECORD SIM SIMILAR SLWC SAND-LIGHTWEIGHT CONCRETE SOG SLAB ON GRADE SQ SQUARE SS STAINLESS STEEL STL STEEL T&B TOP & BOTTOM TEMP TEMPORARY THRD THREAD OR THREADED TOC TOP OF CONCRETE TU ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE TYP TYPICAL UNO UNLESS NOTED OTHERWISE V ANCHORAGE SHEAR REAC VERT VERTICAL VU ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE W/ WITH Wp COMPONENT SELF-WEIGHT |
| SHEET TITLE: ABBREVIATIONS | IN (") INCH KSI KIPS PER SQUARE INCH UCTURAL ENGINEERS, INC. SPARK DRIVE, SUITE 650 TEL (916) 920-20 CA 95833 TEL (916) 920-20 Www.cyseng.co | |

