

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

APPLICATION FOR HCAI PREAPPROVA	L OF OFFICE USE ONLY
MANUFACTURER'S CERTIFICATION (OP	PM) APPLICATION #: OPM-0751
HCAI Preapproval of Manufacturer's Certification (O	PM)
Type: X New Renewal/Update	
Manufacturer Information	
Manufacturer: Labconco Corporation	
Manufacturer's Technical Representative: David Wasescha	
Mailing Address: 8811 Prospect Ave, Kansas City, MO 6413	2
Telephone: (800) 821-5525 Email: d	wasescha@labconco.com
EDFORC	ODE COMP.
Product Information	
Product Name: Labconco Logic+ Biosafety Cabinet	10751
Product Type: Class II Biosafety Cabinet	1-0731
Product Model Number: 3023, 3024, 3025, 3026, 3034, and	3036 taehlin
General Description: Fume Hoods and Stand/Wall mount	
DATE: 07	7/23/2025
Applicant Information	
Applicant Company Name: Labconco Corporation	
Contact Person: David Wasescha	DING
Mailing Address: 8811 Prospect Ave, Kansas City, MO 6413	2
Telephone: (800) 821-5525 Email: dv	wasescha@labconco.com

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

HCAi

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Title: Director of Biosafety Products



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

Registered Design Professonal Preparing Engineering Recommendations							
Company Name: CUSHING TERRELL							
Name: Sushil Shenoy	California License Number: CE87108						
Mailing Address: 5915 S Regal St, STE	314, Spokane, WA 99223						
Telephone: (509) 921-7731	Email: sushilshenoy@cushingterrell.com						
Certification Method							
Testing in accordance with:	-ES AC156 FM 1950 ASHRAE 171 FEMA 461						
Other(s) (Please Specify):	D FOR COLUMN COL						
and attachments are not permitted. For	by the California Building Standards Code, 2022 (CBSC 2022) for component supports distribution system, interior partition wall, and suspended ceiling seismic bracings, test CBSC 2022 may be used when approved by HCAI prior to testing.						
X Analysis	OPM-0751						
Experience Data	DV. William Stacklin						
Combination of Testing, Analysis, a	nd/or Experience Data (Please Specify):						
5	DATE: 07/23/2025						
HCAI Approval							
Date: 7/23/2025	Runnal Title: Senior Structural Engineer						
Name: William Staehlin	BUILDINGTitle: Senior Structural Engineer						
Condition of Approval (if applicable):							

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

HCA

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



EXP: 9/30/2025

Cushing Terrell

cushingterrell.com 800.757.9522 PROJECT #: 24-01-058

LABCONCO LOGIC BIOLOGICAL SAFETY FUME HOOD WALL MOUNT OPM: 0751

PROJECT LOCATION: CALIFORNIA, USA

DATE: 7.23.25

SHEET TITLE

COVER &

GENERAL NOTES

SHEET

S1

LABCONCO LOGIC SERIES CLASS II BIOLOGICAL SAFETY FUME HOOD; SERIES 3023, 3024, 3025, 3026, 3034, AND 3036

GENERAL NOTES - LABCONCO BIO CABINETS OPM

I. GENERAL REQUIREMENTS:

- THIS HCAI PRE APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CALIFORNIA BUILDING CODE (CBC). THE DEMAND (DESIGN FORCES) FOR USE WITH THE OPM SHALL BE BASED ON THE 2022 CBC.
- DESIGN CRITERIA AND LIMITATIONS:

A. $S_{DS} \leq 1.5 \text{ AND} \leq 2.5$

E. Ω_0 2.0 (LABORATORY EQUIPMENT PER ASCE 7-16 TABLE 13.5-1)

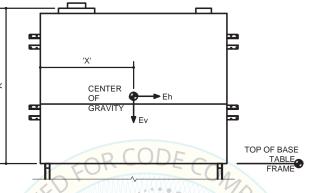
II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

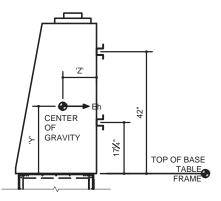
- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS, MATERIAL, AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THESE DOCUMENTS.
- VERIFY THAT THE PROJECT SPECIFIC VALUES OF Sos AND z/h FOUND ON THESE DOCUMENTS ARE NOT EXCEEDED.
- 3. PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS. VERIFY THE ADEQUACY OF THE STRUCTURE THAT SUPPORTS THE EQUIPMENT FOR THE LOADS IMPOSED ON THEM BY THE EQUIPMENT IN ADDITION TO ALL OTHER LOADS.

III. COMPONENT, SUPPORT, AND ATTACHMENT MATERIALS

- 1. BASE TABLE SUPPORT FRAME TUBING: ASTM A513, TYPE 2; Fy = 32 KSI
- 2. THREADED RODS AND STRUCTURAL STEEL ANGLES: ASTM A36; Fy = 36 KSI
- 3. BOLTS: ASTM A307
- 4. NUTS: ASTM A563
- 5. HARDENED PLAIN WASHERS: ASTM F436
- 6. SHEET METAL SCREWS: TEKS BY ITW BUILDEX, ICC-ES ESR-3223. SCREWS SHALL HAVE TEKS/5 DRILL POINT WITH DRILLING CAPACITY OF 0.125" OF MATERIAL, MINIMUM, AND 0.500", MAXIMUM. SCREWS ARE SPECIFIED THUS: 12-24 x 1 1/4" IS A #12 DIAMETER SCREW WITH 24 THREADS PER INCH AND 1 1/4" LONG.
- 7. SHEET STEEL PLATES AND BENT PLATES (12GA THICKNESS OR LESS): ASTM A568; Fy = 33 KSI, MIN
- 8. BIO CABINET WALL/FLANGE AT INTERFACE WITH BASE TABLE SUPPORT FRAME: ASTM A276; Fy = 30 KSI
- IV. LOAD COMBINATIONS
- 1. 1.2 DL + Ev + Eh + L + 0.2S
- 2. 0.9 DL Ev + Eh







ELEVATION VIEW: SIDE



LABCONCO

Cushing Terrell

cushingterrell.com 800.757.9522 PROJECT #: 24-01-058

LABCONCO LOGIC BIOLOGICAL SAFETY FUME HOOD WALL MOUNT OPM: 0751

PROJECT LOCATION: CALIFORNIA, USA

DATE: 7.23.25

SHEET TITLE
CABINET
DIMENSIONS &
SCHEDULE

SHEET

S2

PLAN VIEW OF CABINET (COMPONENT)

CABINET DIMENSIONS

1/2" = 1'-0"

CABINE	LOADS AT INTERFACE WITH WAL	L
(.0 x E, STRENGTH DESIGN)	

CABINET		= 0 ≤ 1.5		= 1 ≤ 1.5		= 0 ≤ 2.5	z/h = 1 S _{DS} ≤ 2.5		
SERIES	Ev (LBS)	Eh (LBS)	Ev (LBS)	Eh (LBS)	Ev (LBS)	Eh (LBS)	Ev (LBS)	Eh (LBS)	
3023	126	151	126	454	210	252	210	756	
3024	153	184	153	551	255	306	255	918	
3025	180	216	180	648	300	360	300	1080	
3026	207	248	207	745	345	414	345	1242	
3034	162	194	162	583	270	324	270	972	
3036	216	259	216	778	360	432	360	1296	

OPM-0751

ELEVATION VIEW: FRONT

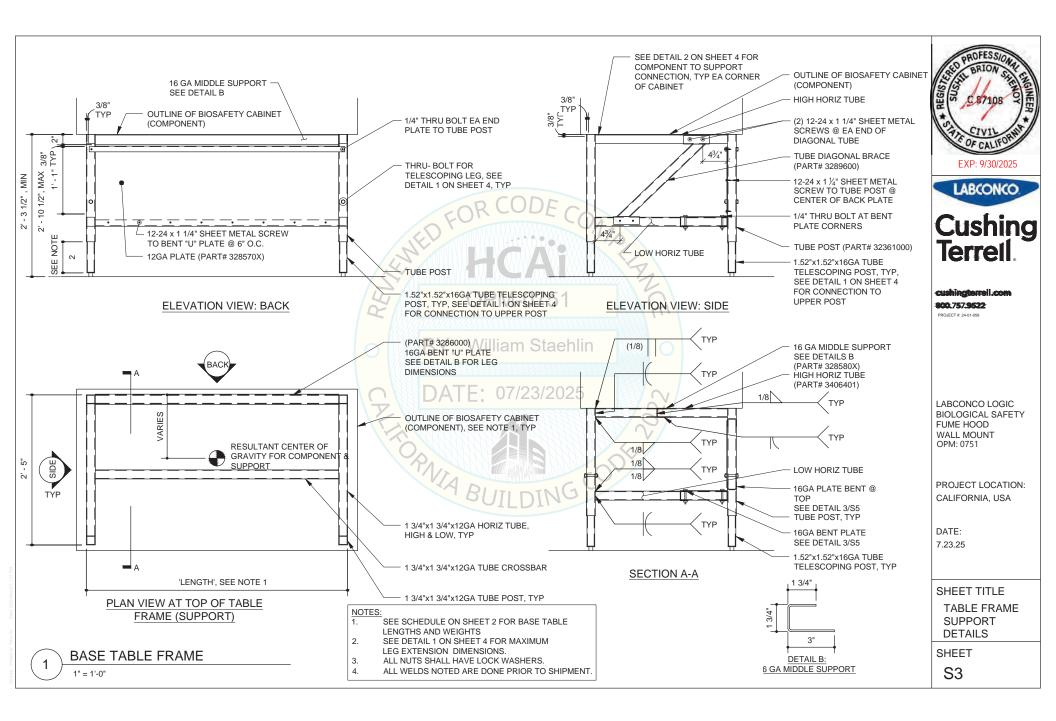
BY: William Staehlin

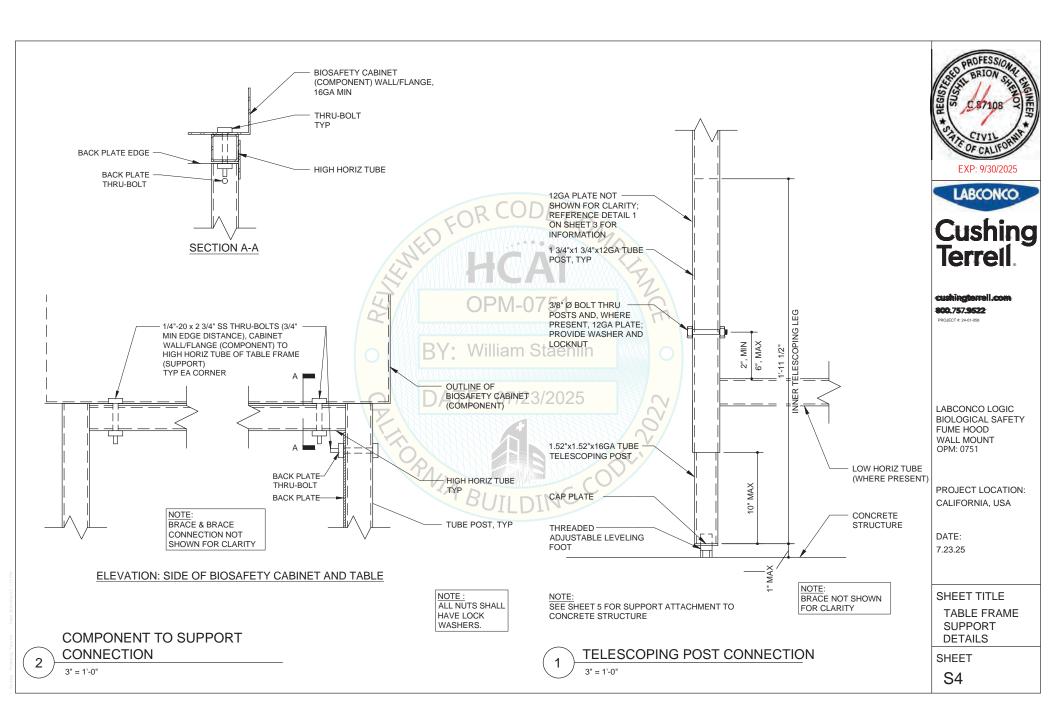
DATE: 07/23/2025

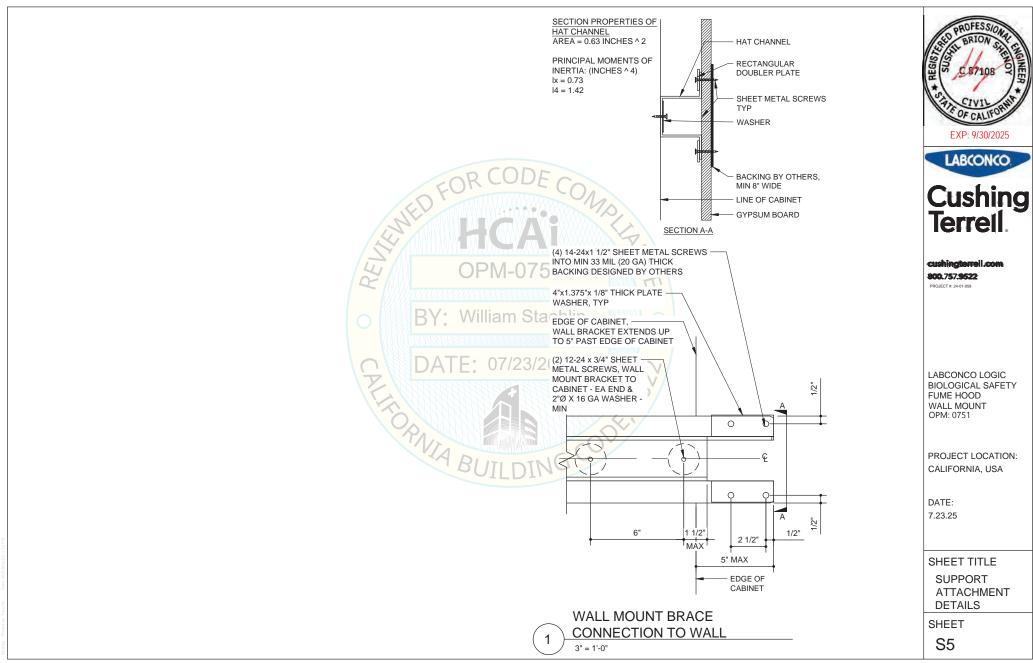
		CABINET DIMENSIONS AND CENTER OF GRAVITY						MAX	MAX BASE TABLE			TOTAL	
CABINET SERIES	TYPE	A	В	С	х	Υ	Z	CABINET WEIGHT (LBS)	MODEL	LENGTH	WEIGHT (LBS)	WEIGHT (LBS)	
3023	A2	61.7"	42.2"	31.2"	21.06"	34.36"	13.51"	420	3401003	38.5"	117	537	
3024	A2	61.7"	54.2"	31.2"	27.03"	33.32"	13.40"	510	3401004	50.5"	125	635	
3025	A2	61.7"	66.2"	31.2"	32.37"	33.70"	13.61"	600	3401005	62.5"	133	733	
3026	A2	61.7"	78.2"	31.2"	38.28"	34.62"	13.53"	690	3401006	74.5"	150	839	
3034	B2	61.6"	54.2"	31.2"	27.54"	34.48"	14.16"	540	3401004	50.5"	125	665	
3036	B2	61.6"	78.2"	31.2"	39.10	33.98"	13.20"	720	3401006	74.5"	150	869	

SCHEDULE NOTE:

CENTER OF GRAVITY AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHTS SHOWN.







07/23/2025

LABCONCO LOGIC SERIES CLASS II BIOLOGICAL SAFETY FUME HOOD: SERIES 3023, 3024, 3025, 3026, 3034, AND 3036

GENERAL NOTES - LABCONCO BIO CABINETS OPM

GENERAL REQUIREMENTS:

- THIS HCAI PRE APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CALIFORNIA BUILDING CODE (CBC), THE DEMAND (DESIGN FORCES) FOR USE WITH THE OPM SHALL BE BASED ON THE
- DESIGN CRITERIA AND LIMITATIONS:

 S_{DS} ≤ 2.5

z/h INSTALLED AT GROUND LEVEL W/SDS ≤ 2.5

2.0 (LABORATORY EQUIPMENT PER ASCE 7-16 TABLE 13.5-1)

THE DESIGN OF THE SUPPORTS AND ATTACHMENTS DEPICTED ARE ADEQUATE FOR NORMAL WEIGHT CONCRETE SUBSTRATE WITH f'c≥ 3000 PSI

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS, MATERIAL, AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THESE DOCUMENTS.
- VERIFY THAT THE PROJECT SPECIFIC VALUES OF SDS AND z/h FOUND ON THESE DOCUMENTS ARE NOT EXCEEDED.
- VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE POST-INSTALLED ANCHOR ICC-ES EVALUATION REPORT.
- VERIFY THAT THE POST-INSTALLED ANCHORS COMPLY WITH THE MINIMUM SPACING AND EDGE DISTANCE REQUIREMENTS DEFINED IN THESE DOCUMENTS
- VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6 x Hof FROM THIS LINIT'S ANCHORS
- PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS. VERIFY THE ADEQUACY OF THE STRUCTURE THAT SUPPORTS THE EQUIPMENT FOR THE LOADS IMPOSED ON THEM BY THE EQUIPMENT IN ADDITION TO ALL OTHER LOADS.

POST-INSTALLED ANCHORS:

07/23/2025

POST-INSTALLED ANCHORS FOR ATTACHING THE EQUIPMENT SUPPORT TO THE STRUCTURE SHALL BE KWIK BOLT TZ2 (ICC-ES ESR-4266; REISSUED DECEMBER, 2021) BY HILTI AND SHALL COMPLY WITH THE FOLLOWING. REFERENCE THE PRODUCT ICC-ES EVALUATION REPORT FOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ANCHOR DIAMETER	CONCRETE TYPE	CONCRETE f'c	MIN SLAB THICKNESS	TORQUE TEST LOAD
5/8"	NWC	3000 psi	5" SLAB	40 ft-lb

- REFERENCE THE DETAILS IN THE DRAWINGS FOR ANCHOR MINIMUM EFFECTIVE EMBEDMENT (hef, NOT NOMINAL EMBEDMENT), MINIMUM SPACING, AND MINIMUM EDGE DISTANCE.
- THIS DOCUMENT ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, SEE DETAIL 2 ON SHEET 5.
- CARE AND CAUTION SHALL BE EXERCISED TO AVOID DAMAGING REINFORCING OR TENDONS IN THE EXISTING SLAB DURING DRILLING FOR ANCHORS.
- EXPANSION ANCHORS SHALL BE LONG ENOUGH TO PROVIDE FULL ENGAGEMENT OF THE NUT AND WASHER FOR THE SPECIFIED EMBEDMENT DEPTH.

TESTING OF POST-INSTALLED CONCRETE ANCHORS:

- COMPLY WITH SECTION 1910A.5 OF THE 2022 CBC. AFTER A MINIMUM OF 24 HOURS HAVE ELAPSED SINCE INSTALLATION, TORQUE TESTING OF AT LEAST 50% OF THE POST-INSTALLED ANCHORS SHALL BE PERFORMED
- ACCEPTANCE CRITERIA: TORQUE WRENCH METHOD. ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN ½ TURN OF THE NUT. IF ANY ANCHOR FAILS, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED. WHICH ARE INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.

COMPONENT, SUPPORT, AND ATTACHMENT MATERIALS

- BASE TABLE SUPPORT FRAME TUBING: ASTM A513, TYPE 2; Fv = 32 KSI
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- BIO CABINET WALL/FLANGE AT INTERFACE WITH BASE TABLE SUPPORT FRAME: ASTM A276; Fy = 30 KSI

LOAD COMBINATIONS

- 1.2 DL + Ev + Emh + L + 0.2S
- 0.9 DL Ev + Emh





Cushing

cushingterrell.com 800,757,9522

PROJECT #: 24-01-058

LABCONCO LOGIC BIOLOGICAL SAFETY **FUME HOOD** FLOOR MOUNT OPM: 0751

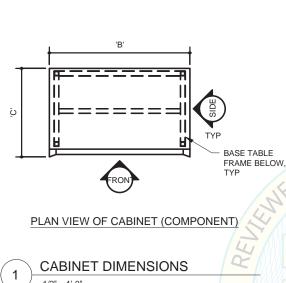
PROJECT LOCATION: CALIFORNIA, USA

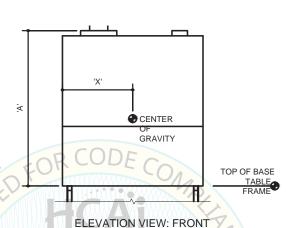
DATE: 7.23.25

SHEET TITLE COVER & **GENERAL NOTES**

SHEET

S1





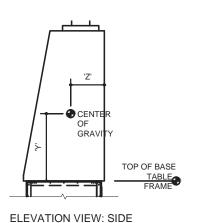


TABLE FRAME POST VERTICAL (UPLIFT, TU)

& HORIZONTAL (VU) REACTIONS AT

INTERFACE WITH CONCRETE STRUCTURE (MAX REACTION FROM LOAD COMBINATIONS PER S1.1)

(LBS)

161

197

230

265

206

273

z/h = 0

S_{DS} ≤ 2.5

Tu/POST Vu/POST

(LBS)

271

332

387

446

347

464

(LBS)

539

744

851

688

896

z/h = 0

S_{DS} ≤ 1.5

Tu/POST Vu/POST

(LBS)

283

335

383

435

356

462

CABINET

SERIES

3023

3025

3026

3034

3036



LABCONCO. Cushing Terrell

cushingterrell.com 800,757,9522

PROJECT #: 24-01-058

LABCONCO LOGIC BIOLOGICAL SAFETY FUME HOOD

FLOOR MOUNT

OPM: 0751

PROJECT LOCATION:

CALIFORNIA, USA

DATE: 7.23.25

SHEET TITLE **CABINET DIMENSIONS & SCHEDULES**

SHEET

S2

9 of 12

BY: William Staehlin

OPM-0751

DATE: 07/23/2025

		C/	ABINET DIME	ENSIONS A	ND CENTER	OF GRAVIT	MAX	BASE TABLE			TOTAL	
CABINET SERIES	TYPE	А	В	С	Х	Υ	Z	CABINET WEIGHT (LBS)	MODEL	LENGTH	WEIGHT (LBS)	WEIGHT (LBS)
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07/23/2025

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