

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OSM)

OFFICE USE ONLY

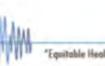
MANUFACTURER'S CERTIFICATION (OSM)	APPLICATION #: OPM-0204
OSHPD Preapproval of Manufacturer's Certification OPM)	
Type: New X Renewal/Update	
Manufacturer Information	
Manufacturer: NUAIRE, INC.	
Manufacturer's Technical Representative: WILLIAM PETERS	
Mailing Address: 2100 FERNBROOK LANE, PLYMOUTH, MN 55447	
Telephone: (763) 553-1270 Email: BPETERS	@NUAIRE.COM
Product Information CODI	
Product Name: BIOLOGICAL SAFETY CABINETS	COMB
Product Type: Class II	
Product Model Number: Numerous models, see drawing 1 of 7 - 0 2 0	4
General Description: Biological safety cabinets (Class II) providing permaterials used in the life sciences, pharmaceutic	ersonnel, produ <mark>ct and</mark> environmental protection from cals, pharmacy and other industries.
Applicant Information	0
Applicant Company Name: LTK ASSOCIATES, INC.	70
Contact Person: RAYMOND Z. URIBES	
Mailing Address: 745 DISTEL DRIVE, SUITE 7, LOS ALTOS, CA 940	22 602
Telephone: () - Email: LTK@LTK	SE.COM
Title:	
Registered Design Professonal Preparing Engineering Reco	ommendations
Company Name: LTK ASSOCIATES, INC.	
Name: Raymond Z. Uribes Californ Number	rnia License S2479 er:
Mailing Address: 745 Distel Drive, Suite 7, Los Altos, CA 94022	
Telephone: (650) 967-8465 Email: Itk@ltkse.c	com
OSHPD Special Seismic Certification Preapproval (OSP)	
Special Seismic Certification is preapproved under OSP	OSP Number:





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Certification Method	
Testing in accordance with:	CC-ES AC156
Other(s) (Please Specify):	
and attachments are not permitted. F	ted by the California Building Standards Code, 2019 (CBSC 2019) for component supports or distribution system, interior partition wall, and suspended ceiling seismic bracings, test e CBSC 2019 may be used when approved by OSHPD prior to testing.
X Analysis	
Experience Data	
Combination of Testing, Analysis	s, and/or Experience Data (Please Specify):
OSHPD Approval	
Date: 3/19/2020	EOR CODE
Name: Haeseong Lim	Title: Senior Structural Engineer
Condition of Approval (if applicable):	OSAPD (
	OPM-0204
	BY: Haeseong Lim
	DATE: 03/19/2020





	Mo	-
Model Number	Associated Basestand Model Number	
NU-425-300	NU-400-229	
NU-427-300	NU-400-229	
NU-430-300	NU-400-229	
NU-435-300	NU-400-229	
NU-437-300	NU-400-229	
NU-440-300	NU-400-229	
NU-475-300	NU-500-121	
NU-477-300	NU-500-121	
NU-480-300	NU-500-121	
NU-540-300	NU-500-121	
NU-543-300	NU-500-121	
NU-545-300	NU-500-121	
NU-550-300	NU-500-121	
NU-560-300	NU-500-121	
NU-565-300	NU-500-121	
NU-425-400	NU-400-230	
NU-427-400	NU-400-230	
NU-430-400	NU-400-230	
NU-435-400	NU-400-230	
NU-437-400	NU-400-230	
NU-440-400	NU-400-230	
NU-475-400	NU-500-122	
NU-477-400	NU-500-122	
NU-480-400	NU-500-122	
NU-540-400	NU-500-122	
NU-543-400	NU-500-122	
NU-545-400	NU-500-122	
NU-550-400	NU-500-122	
NU-560-400	NU-500-122	
NU-565-400	NU-500-122	
NU-425-500	NU-400-231	
NU-427-500	NU-400-231	
NU-430-500	NU-400-231	
NU-435-500	NU-400-231	
NU-437-500	NU-400-231	
NU-440-500	NU-400-231	
NU-475-500	NU-500-123	
NU-477-500	NU-500-123	
NU-480-500	NU-500-123	
NU-540-500	NU-500-123	
NU-543-500	NU-500-123	
NU-545-500	NU-500-123	
NU-550-500	NU-500-123	
NU-560-500	NU-500-123	
NU-565-500	NU-500-123	

Biosafety Cabinet

Model Number

NU-425-600

NU-427-600

NU-430-600

NU-435-600

NU-437-600

NU-440-600

NU-475-600

NU-477-500

NU-480-600

NU-540-600

NU-543-600

NU-545-600

NU-550-600

NU-560-600

NU-565-600

Associated Basestand

Model Number

NU-400-232

NU-400-232

NU-400-232

NU-400-232

NU-400-232

NU-400-232

NU-500-124

NU-500-124

NU-500-124

NU-500-124

NU-500-124

NU-500-124

NU-500-124

NU-500-124

NU-500-124

REV	ECO	DESCRIPTION	DATE	DRFT	CHKD
Α		RELEASED TO PRODUCTION	01/09/18	LS	BP

PRE-APPROVAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 AND 13.3-3, WHERE: S_{DS} = 2.0, ap = 1.0, AND Rp = 2.5. (FORCE LEVEL FOR Eh & Ev IS ASD) HORIZONTAL FORCE (Eh) = 1.00Wp, VERTICAL FORCE (Ev) = 0.28Wp.
- THE DETAILS IN THIS PRE-APPROVAL ARE APPLICABLE TO ANY LOCATION IN THE STATE OF CALIFORNIA WHERE S_{DS} IS NOT GREATER THAN 2.0. THE DETAILS WERE DEVELOPED USING h=z AND MAY BE USED AT ANY HEIGHT IN THE BUILDING WHERE z/h <= 1.0.
- DESIGN FORCES SHOWN ON THE DRAWINGS ARE BASED ON WORKING STRESS LOADS AND MAY BE USED FOR ALLOWABLE STRESS DESIGN.
- 5. THIS PRE-APPROVAL COVERS ONLY THE ATTACHMENT OF THE UNIT TO THE STRUCTURE. IT DOES NOT CONSTITUTE SEISMIC CERTIFICATION OF THE EQUIPMENT.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

- VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE WEIGHT AND FORCES SHOWN IN THIS PRE-APPROVAL IN ADDITION TO ALL OTHER WEIGHTS AND FORCES THAT ARE IMPOSED ON IT.
- PROVIDE ANY SUPPLEMENTARY STRUCTURE REQUIRED FOR STRENGTH AND STABILITY.
- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE NOTES AND DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE CONFORM WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.





Structural Engineers 745 Distel Drive Los Altos, CA 94022



SUPPORTS AND ATTACHMENTS DETAILS (WALL MOUNT) BENCH TOP **BIOLOGICAL SAFETY CABINET**

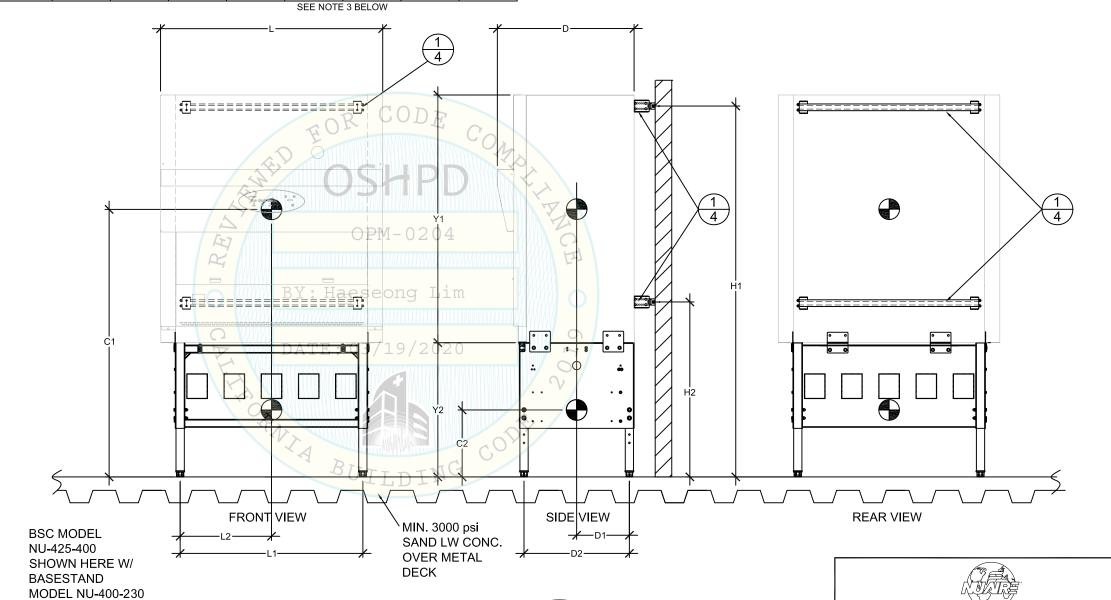
02/29/20 | CHKD | BP | SHEET 1 OF 7 DFTM LS

DRAWING BCD-19632 NUMBER

Α

Biological Safety Cabinet (BSC) Data										
Model no.	HOOD = W1 (lb)	CONTENT = W2 (lb)	STAND = W3 (lb)							
NU-425/427/430/435/437/440-300	425	100	82 (NU-400-229)							
NU-425/427/430/435/437/440-400	550	100	84 (NU-400-230)							
NU-425/427/430/435/437/440-500	590	100	86 (NU-400-231)							
NU-425/427/430/435/437/440-600	740	100	88 (NU-400-232)							

		•		•								
DIMENSIONS												
Model no.	C1	C2	D	D1	D2	L	L1	L2	H1	H2	Y1	Y2
NU-425/427/430/435/437/440-300	69.00	13.00	33.12	12.00	25.50	41.62	32.00	16.00	89.75	41.00	60.00	34.00
NU-425/427/430/435/437/440-400	68.00	13.00	33.12	12.00	25.50	53.62	44.00	22.00	89.75	41.00	60.00	34.00
NU-425/427/430/435/437/440-500	69.00	13.00	33.12	12.00	25.50	65.62	56.00	28.00	89.75	41.00	60.00	34.00
NU-425/427/430/435/437/440-600	68.00	13.00	33.12	12.00	25.50	77.62	68.00	34.00	89.75	41.00	60.00	34.00



NOTE:

IF BSC IS USED FOR PHARMACY APPLICATION, WALL MOUNT BRACKETS MUST BE ENCLOSED ON TOP AND SIDES FOR CLEANING PURPOSES, SUBJECT TO THE APPROVAL BY THE CA BOARD OF PHARMACY PRIOR TO INSTALLATION.

NOTE:

- 1. SEE ALL NOTES SHEET 1 OF 7.
- 2. FOR ANCHOR SCHEDULE AND SUPPORTS AND ATTACHEMENTS DETAILS, SEE SHEET 4 OF 7.
- 3. THE "H" DIMENSIONS SHOWN ABOVE ARE BASED ON MAXIMUM BASE STAND HEIGHTS, WITH OTHER BASE STAND HEIGHTS, THE WALL BRACKET LOCATIONS SHALL BE LOCATED APPROPRIATELY.



Structural Engineers 745 Distel Drive Los Altos, CA 94022 (650) 967-8465 Itk@ltkse.com

REV ECO

DESCRIPTION

UPDATE STAND MODEL NUMBERS

DATE

6/18/2019

DRFT CHKD

LTK

SUPPORTS AND ATTACHMENTS DETAILS (WALL MOUNT) BENCH TOP BIOLOGICAL SAFETY CABINET

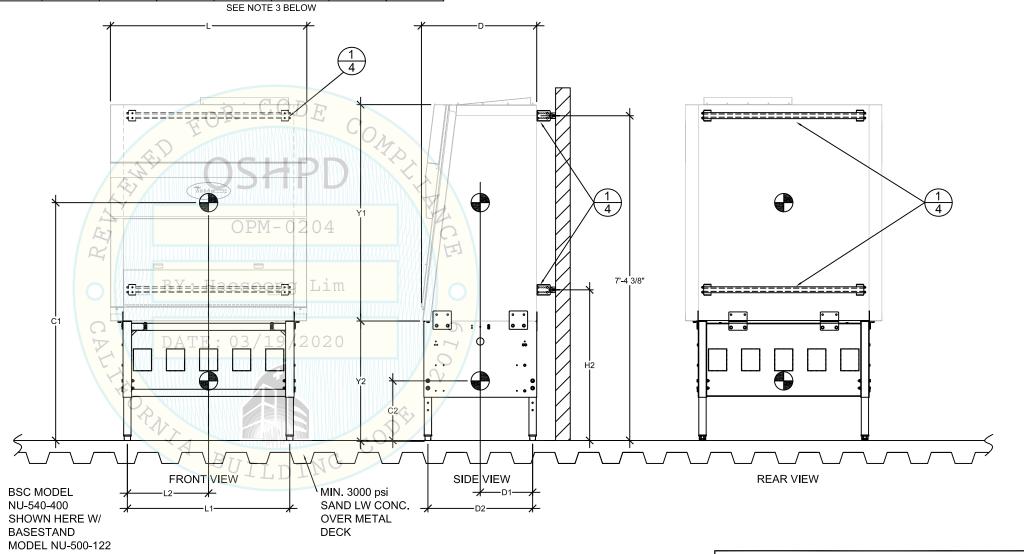
DFTM LS 02/29/20 CHKD BP SHEET 2 OF 7

DRAWING NUMBER BCD-19632

Biological Safety Cabinet (BSC) Data									
Model no.	HOOD = W1 (lb)	CONTENT = W2 (lb)	STAND = W3 (lb)						
NU-475/477/480/540/543/545/550/560/565-300	425	100	82 (NU-500-121)						
NU-475/477/480/540/543/545/550/560/565-400	520	100	84 (NU-500-122)						
NU-475/477/480/540/543/545/550/560/565-500	600	100	86 (NU-500-123)						
NU-475/477/480/540/543/545/550/560/565-600	700	100	88 (NU-500-124)						

REV	ECO	DESCRIPTION	DATE	DRFT	CHKD
		UPDATE STAND MODEL NUMBERS	6/18/2019	LTK	

DIMENSIONS												
Model no.	C1	C2	D	D1	D2	L	L1	L2	H1	H2	Y1	Y2
NU-475/477/480/540/543/545/550/560/565-300	66.00	13.00	31.50	13.00	28.50	41.50	32.00	16.00	88.75	41.00	59.00	33.00
NU-475/477/480/540/543/545/550/560/565-400	65.00	13.00	31.50	13.00	28.50	53.50	44.00	22.00	88.75	41.00	59.00	33.00
NU-475/477/480/540/543/545/550/560/565-500	65.50	13.00	31.50	13.00	28.50	65.50	56.00	28.00	88.75	41.00	59.00	33.00
NU-475/477/480/540/543/545/550/560/565-600	65.00	13.00	31.50	13.00	28.50	77.50	68.00	34.00	88.75	41.00	59.00	33.00



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- SEE ALL NOTES SHEET 1 OF 7.
- FOR ANCHOR SCHEDULE AND SUPPORTS AND ATTACHMENTS DETAILS, SEE SHEET 4 OF 7.
- THE "H" DIMENSIONS SHOWN ABOVE ARE BASED ON MAXIMUM BASE STAND HEIGHTS, WITH OTHER BASE STAND GIGHTS, THE WALL BRACKET LOCATIONS SHALL BE LOCATED APPROPRIATELY.





Structural Engineers 7 4 5 Distel Drive Los Altos, CA 94022 ASSOCIATES (650) 967-8465 Incorporated Itk@itkse.com (650) 967-8465



SUPPORTS AND ATTACHMENTS DETAILS (WALL MOUNT) BENCH TOP **BIOLOGICAL SAFETY CABINET**

02/29/20 CHKD BP SHEET 3 OF 7 DFTM LS

DRAWING NUMBER

BCD-19632

