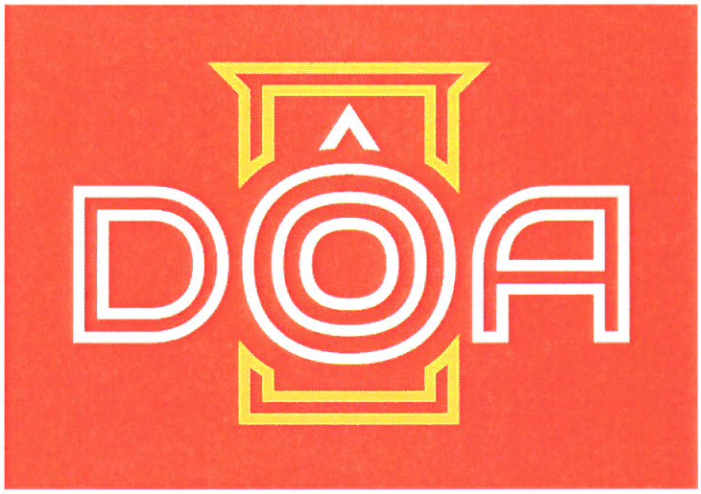
DOA

Table of Contents

I. OPERATIONAL BUSINESS PLAN

DÔA is a true neighborhood styled eatery with an Asian Cantina concept, serving high quality chef driven LatAsian cuisine, which features flavors unique to Asian influenced cuisine born in Latin America. Affordable, casual and approachable, DÔA will be open seven days of the week for unique offerings in dinner, weekend brunch, and late night dining.

The operators of DÔA manage other high end dining venues listed below in the Miami area:

- Zuma in the EPIC Hotel, a world renowned, high end & high volume Japanese restaurant
- Coya, a popular, high-end contemporary Peruvian restaurant
- Tamarina, a popular, elegant, high-end Coastal Italian restaurant
- La Petite Maison, a world renowned, high-end French Brasserie restaurant

A copy of the restaurant's proposed menu is included with the application materials.

DÔA's hours of operation for the interior dining area will be will be from 11:00 A.M. through 5:00 A.M. with entertainment.

The hours of operations for the outdoor dining area will be from 11:00 A.M. through 1:00 A.M. The outdoor dining area will have background music played at a volume that does not interfere with normal conversation during those hours.

DÔA will employ approximately sixty (60) to seventy (70) employees for the restaurant operations.

II. PARKING PLAN

The building in which the DÔA is located is connected to a structure containing a parking garage, which will supply parking for the restaurant patrons. DÔA's patrons will valet at the entrance to the parking garage to the west of the restaurant's 20th Street entrance and exit. There are fifty-five (55) parking spaces allotted to this restaurant contained entirely within the parking garage on-site. In addition to the on-site parking garage, there are a host of other parking options for patrons in the immediate area including:

- (1) 23rd Street and Liberty (East)
- (2) 23rd and Liberty (West)
- (3) 21st Street and Collins Avenue
- (4) 18th Street and Meridian Avenue
- (5) 17th Street Garage
- (6) City Hall Parking Garage

However, even considering those parking accommodations, the venue is located within an area of the City where patrons can easily walk instead of drive (and the applicant anticipates many patrons will walk or take public transportation, such as a taxi).

III. CROWD CONTROL PLAN

There are two entrances for patrons to gain access to DÔA. The main entrance to the restaurant is located on 20th Street as indicated on the enclosed architectural plans. Patrons are also able to gain access to the restaurant via the entrance located along Collins Avenue. DÔA will have both security staff and a hostess present every evening to assist in directing the flow of people.

III. SECURITY PLAN

All staff will be trained and certified with regard to patron age restrictions and will enforce such. DÔA will have in-house security present every evening at the restaurant.

IV. TRAFFIC CIRCULATION PLAN

The valet operation which will be servicing DÔA's patrons takes place entirely in the adjacent garage. There will not be a separate valet operation located on 20th Street.

V. DELIVERY AND SANITATION PLAN

The Applicant will utilize the existing sanitation facilities location within the building in which it is located, which are designed to serve the commercial uses within the site and consist of an air conditioned trash room and sufficient trash containers.

DÔA will utilize the City of Miami Beach designated commercial loading zones for all deliveries, which will typically occur between the hours of 10:00 a.m. and 4:00 p.m. The closest City of Miami Beach designated loading zone is located at 1941 20th Street (at the corner between 20th Street and Liberty Street).

VI. NOISE ATTENUATION PLAN

Although the Applicant will have a DJ, the entertainment program will be significantly less intense than that of the prior operator, Barezzito. DÔA will provide patrons with a true dining experience while enjoying music at a less intensive level. Furthermore, the "entertainment" component of the Restaurant is completely contained within the interior of the venue and the outdoor seating will only have background music.

The sound system will be kept under lock and key and will only be accessible to the venue's management team.

Dinner Menu

RAW

Ceviche

Traditional

Nikkei

Tiraditos

Hamachi

Kampachi

Tartar

Arjun Scallop

Dressed Nigiri

Salmon

Tuna

Kampachi

Sashimi

Tuna

Hamachi

Kampachi

Salmon

Eel

Chef Selection

Maki Rolls

DOA Roll

Spicy Tuna

Softshell Roll

Vegetable Roll

FOR THE TABLE

Snacks

Edamame

Shishito Peppers

Crispy Rice

Crispy Squid

Rock Shrimp Tempura

Vegetable Tempura

Lettuce Wrap

Chicken Wings

Salads

Quinoa

Tomato & Hearts of Palm

Noodle

Skewers

Chicken

Beef

Shiitake Mushroom

STEAMED

Dim Sum

Beef Gyoza

Prawn Siu Mai

Pork Siu Mai

Vegetable Dumpling

Buns

(Chicken Bun)

Pork Bun

Softshell Tempura Bun

Mushroom Bun

GRILLED

FROM OUR ROBATA & ROTISSERIE

Spicy Beef

Rib Eye

(Skirt Steak)

New York Strip

Nikkei Chicken ½ or whole

Pork Ribs

(Short Rib)

Lamb Chops

(Salmon)

Whole Local Fish

Local Chifa Fish

WOK & HOT POTS

DOA Rice

Nikkei Seafood Hot Pot

SIDES

Grilled Corn

Crispy Yucca

Wok Cauliflower

Vegetable Chaufa (Quinoa or Rice)

Grilled Asparagus

Grilled Broccoli

THE AUDIO BUG, INC.
3800 HILLCREST DRIVE, # 102 • HOLLYWOOD, FL 33021-7937 • PHONE: 954-983-2788 • FAX: 954-983-2789 • audiobug1@aol.com

June 4, 2012

Richard G. Lorber, Director
City of Miami Beach Planning Department
1700 Convention Center Drive, 2nd Floor
Miami Beach, FL 33139
Phone: (305) 673-7550, Fax: (786) 394-4799

Reference: 0 Entertainment Group USA, LLC
Barezzito Restaurant
2000 Collins Avenue (Units 6, 7, 8 and 10)
Miami Beach, Florida 33139

Dear Mr. Lorber,

The Audio Bug, Inc. was recently engaged by the applicant to perform a Noise Impact Study at the above referenced property on Miami Beach. Their application is for a Conditional Use Permit for a Neighborhood Impact Establishment, consisting of a restaurant and alcoholic beverage establishment also operating as an entertainment establishment, with an occupant content of more than 200 persons, defined as a Neighborhood Impact Establishment under §142-1361 of the City Code.

The building in which the proposed restaurant is located is a multilevel structure containing multiple uses, including retail, apartment/condo, proposed restaurant and entertainment uses. The restaurant is comprised of four combined commercial spaces within the overall structure, which are situated along the corner of 20th Street and Collins Avenue. The property in which the restaurant is located is within the CD-3 (Commercial, High Intensity) zoning district, which is designed to accommodate a highly concentrated business core in which activities serving the entire City are located.

Those elements of the establishment which are of interest in terms of noise include interior and exterior music playback systems, outside dining and traffic.

The sound system will consist of a distributed loudspeaker design both inside and outside the building. The interior system will be capable of generating substantial full-range entertainment sound levels, including bass (low frequency) content consistent with entertainment. The exterior system shall consist of small, low output loudspeakers played only at background levels, so the music will not interfere with normal conversation. Separate level controls will be provided for the inside and outdoor areas. The sound level of the outdoor portion of the system will be no greater

than 60 dBA, so sound emission onto adjacent properties can be controlled, ensuring no impact whatsoever on neighboring properties. At this level, there will be times when traffic noise will overwhelm the music, rendering it inaudible even on the dining patio.

A site visit was conducted on May 17, 2012, to examine the facility, conduct exterior sound level tests and discuss operational conditions and how they might impact the structure. It was determined that music will be played at entertainment levels inside the building while background level music will be played outside on the dining patio along Collins Avenue. The exterior music will not present a problem as noise levels along Collins Avenue are relatively high (see attached sound level charts) due to noise generated by buses and other passing vehicles. Anticipated music levels would be so low as to be masked by traffic noise and therefore inaudible on the east side of Collins Avenue. Therefore no impact is anticipated on properties to the east such as The Setai and other nearby properties.

Entertainment level music played inside the building will be effectively contained by vestibules on the two main entrances to the restaurant as shown on the plans. These vestibules will be provided with acoustically absorbent panels overhead to help attenuate sound escaping to the outside.

In order to address the concern of music from inside impacting residential condo spaces located directly above the restaurant, the applicant will implement sound attenuation measures to ensure there is no sound transmission from the restaurant into the residential condo spaces, including using a sealant on the ceiling of the restaurant. The applicant will conduct sound transmission tests to assess the potential for sound transmission to these spaces and determine appropriate actions to mitigate any identified issues.

The applicant will use shock mount devices, such as those manufactured by Kinetics Noise Control or Mason Industries, to decouple all interior loudspeakers from the building structure. This will help minimize the transmission of vibration to the living spaces above the restaurant. The selection of exact models will be governed by the size, type and weight of loudspeakers used in the proposed sound system.

The applicant will incorporate a device capable of displaying sound levels into the sound system with the capability of sampling sound levels in several areas within the facility from a central location. This will provide management a means of monitoring interior music levels on an ongoing basis. Such a device will be included in the final design documents for the sound system and included is information on a device suitable for this task, the Gold Line SPL 120RM3.

In addition to the capability of monitoring sound levels within the restaurant, the sound system will include a device which will provide automatic reduction of sound levels should a preset sound level threshold be surpassed, such as the Gold Line Model SLC-1, which will also be included in the final sound system design. Information on this device is also attached.

The exterior envelope of the building is at this point not built-out, so assessing sound transmission

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to the outside of the building will be addressed throughout the construction process. Once the interior has been finished off and window frames and other openings in the envelope have been sealed, the applicant will conduct a set of ASTM façade transmission tests to ensure there is no adverse impact from the music played inside at entertainment levels on the outside.

There is a parking garage located in the attached building, so no additional noise associated with traffic is anticipated.

Based on my on-site observations and review of building documents, it is my professional opinion that the proposed property usage will have no adverse acoustical impact on neighboring properties. No violation of the City of Miami Beach Noise Ordinance is anticipated.

I welcome any questions you and your staff may have concerning our report and look forward to assisting you with this matter in the future.

Respectfully submitted,

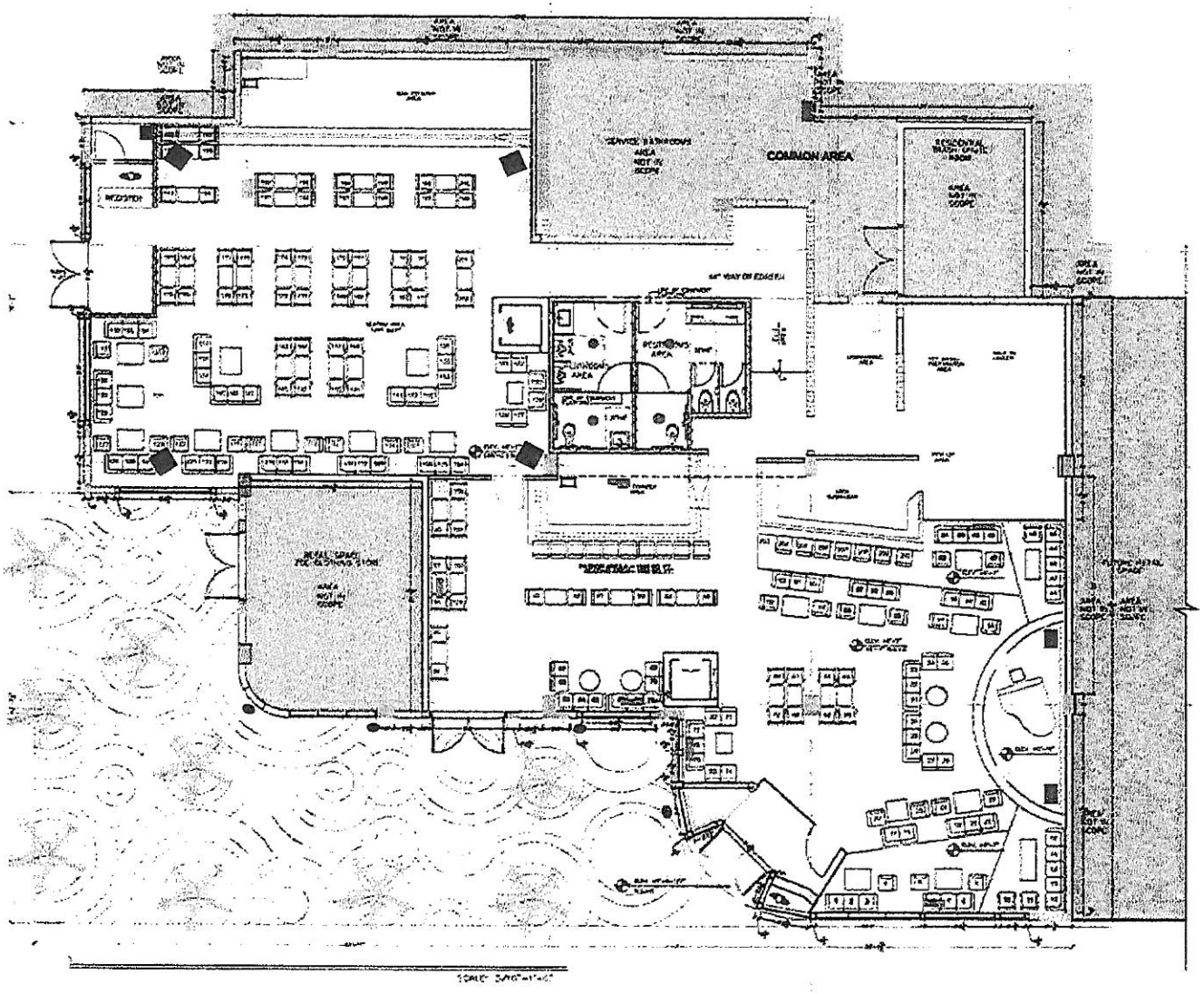
Donald J. Washburn

Donald J. Washburn
President

Double door vestibules at both main entrances
Outdoor Dining Area
PROPOSED FLOOR PLAN – TO INCLUDE PROPOSED EXTERIOR SEATING
LEGEND OF AREAS
PARKING
PARKING

BAREZZITO
2000 COLLINS AVE
MIAMI BEACH, FL 33139

PROPOSED SPEAKER LAYOUT



LEGEND:
- MID/HIGH RANGE SPEAKER; SURFACE MOUNTED
- SUBWOOFER; ON THE FLOOR
- MID/HIGH RANGE SPEAKER; FLOWN
- FULL RANGE SPEAKER; FLOWN
- OUTSIDE BGM SPEAKER; SURFACE MOUNTED
- BATHROOM BGM SPEAKER; CEILING FLUSH MOUNTED
- AMP RACK AND DSP
- VOLUME CONTROL/SOURCE SELECTOR REMOTE

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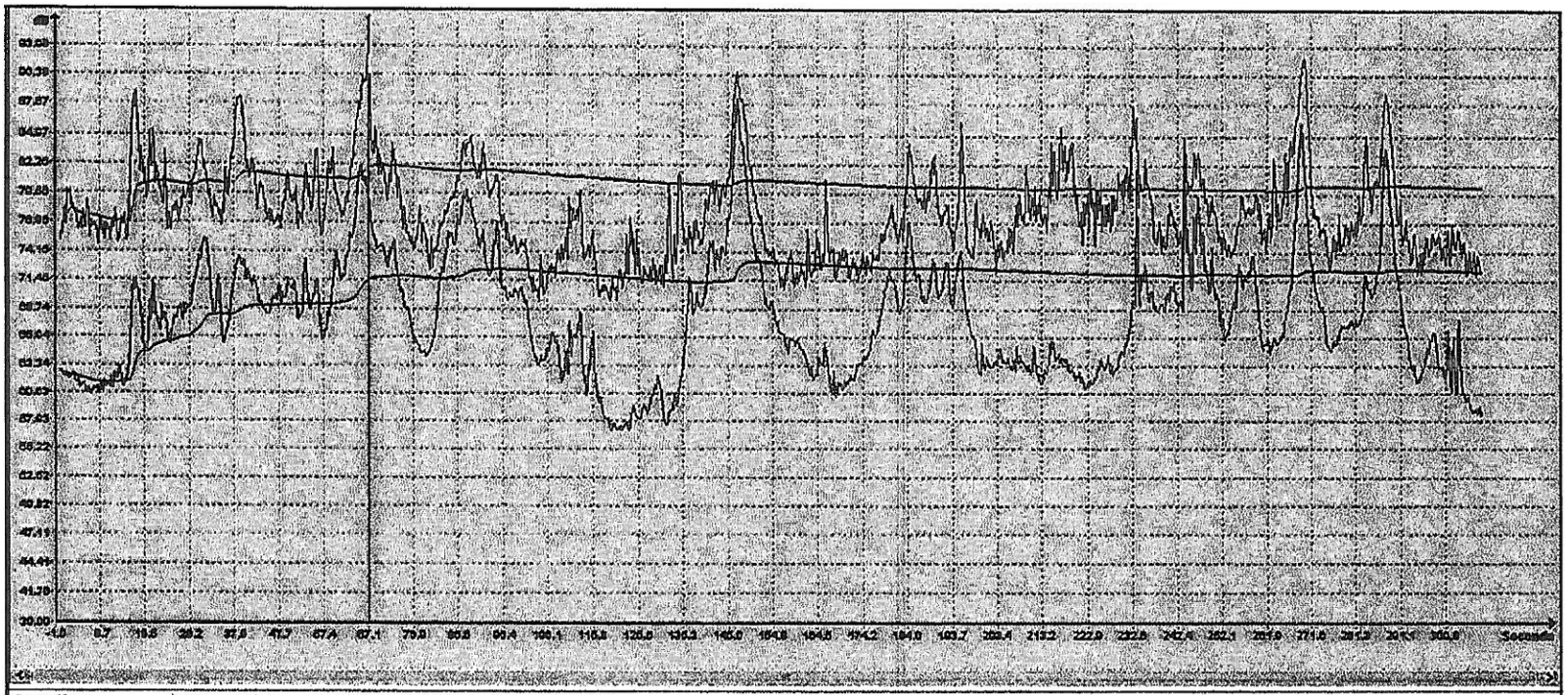
Barezzito Restaurant

2000 Collins Avenue, Miami Beach, Florida
Acoustical Data gathered May 17, 2012



Data Type	Cursor Value	Avg Selection Value	Cumulative Value
A fast	79.33		
A leq	71.46		72.41
C fast	90.44		
C leq	81.93		80.23

5-minute measurement of ambient noise on Collins Avenue outside Barezzito Restaurant to assess noise levels of traffic. Maximum sound level measured was 90.44 dBC.

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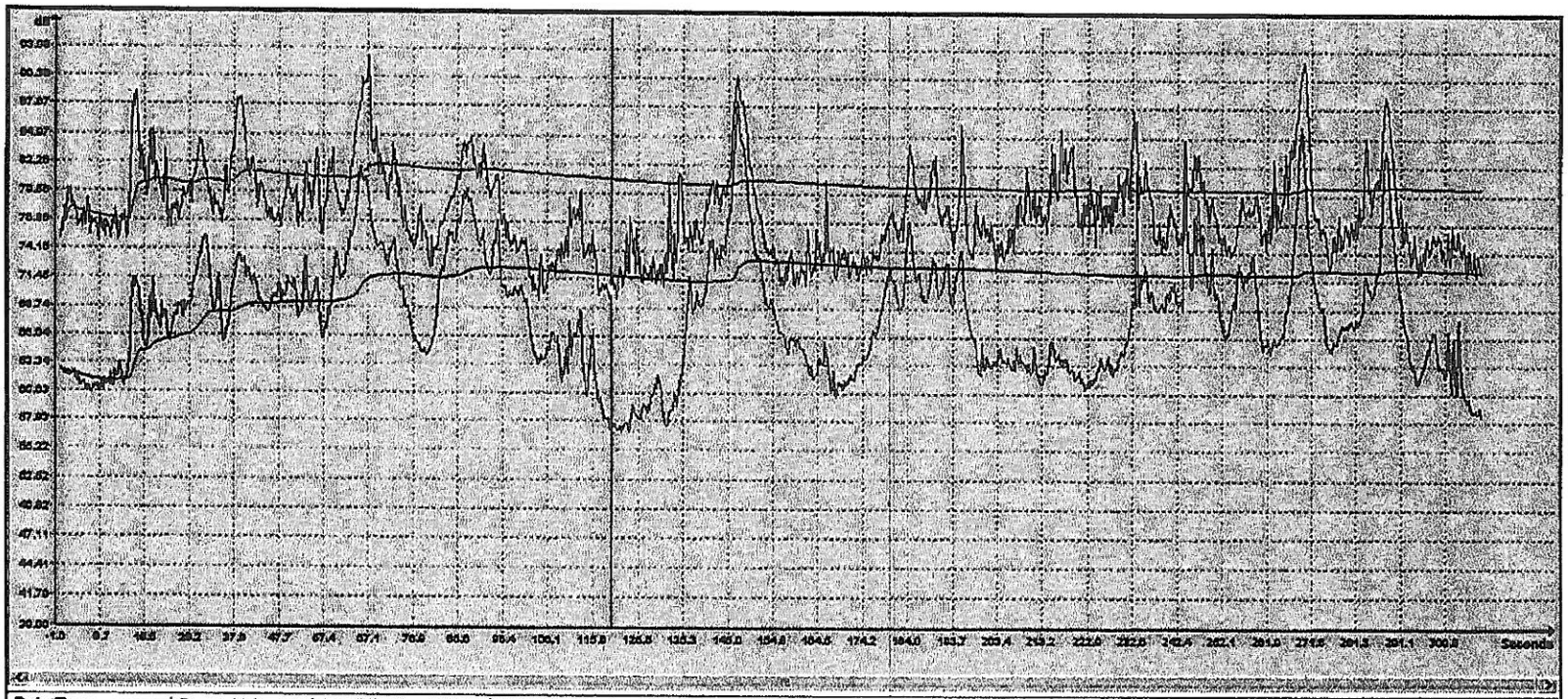

Data Type	Cursor Value	Avg Selection Value	Cumulative Value
A fast	56.88		
A leq	71.86		72.41
C fast	68.91		
C leq	80.91		80.23

5-minute measurement of ambient noise on Collins Avenue outside Barezzito Restaurant to assess noise levels of traffic. Minimum sound level measured was 56.88 dBA.

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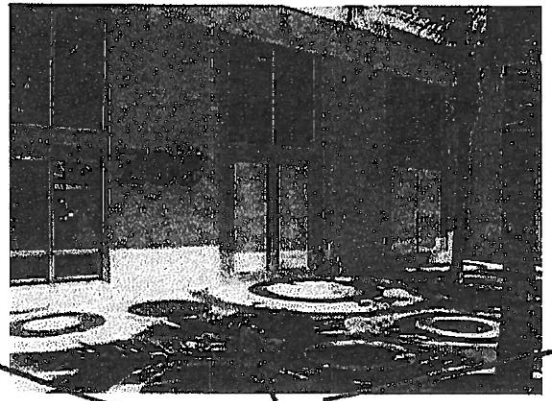
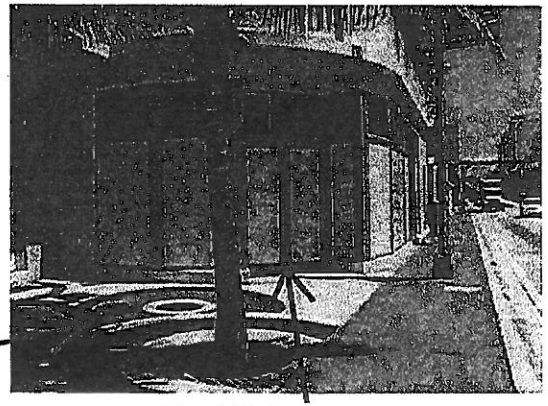
Barezzito Restaurant

2000 Collins Avenue, Miami Beach, Florida
Site Photographs taken May 17, 2012

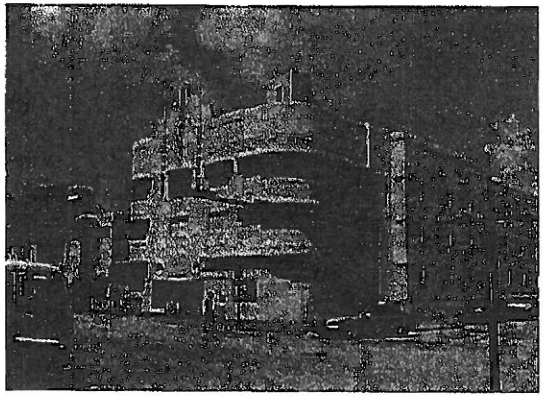
South Entrance

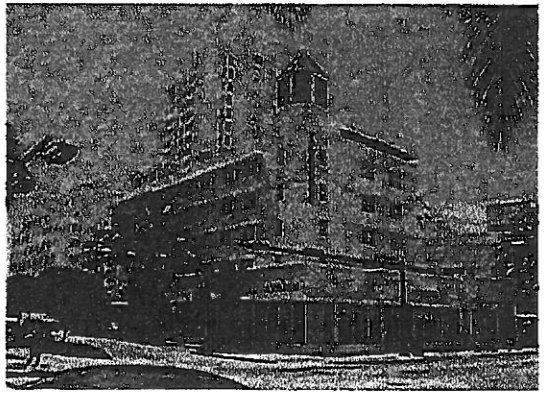


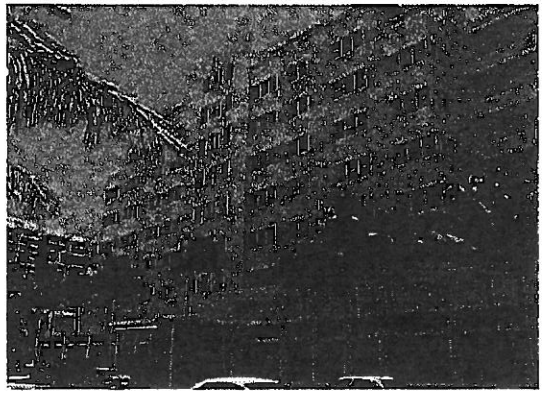
Outdoor Dining Patio



East Entrance







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Barezzito Restaurant

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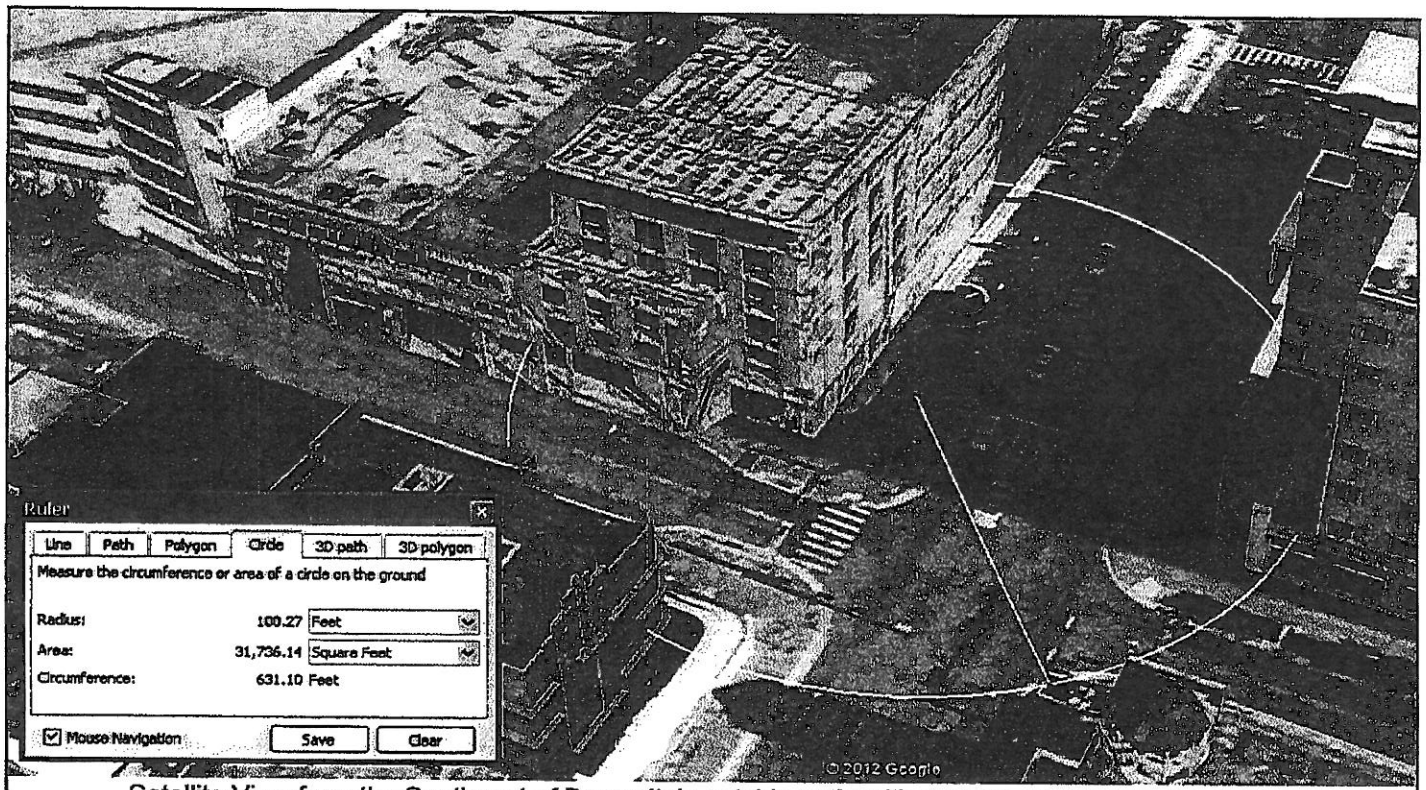


Satellite View from the Southeast of Barezzito's outside patio with a 100 ft. radius from the center.
This distance represents approximately 30 decibels of acoustical attenuation.

GOLDLINE
MANUFACTURED IN U.S.A. SINCE 1961

http://www.gold-line.com
P.O. Box 500, West Redding, Connecticut 06896
Telephone: (203) 938-2588 • Fax: (203) 938-8740

PRECISION SOUND LEVEL METERS & SOUND CONTROL SYSTEMS

For detailed information refer to http://www.gold-line.com/spl.htm

Gold Line **SOUND PRESSURE LEVEL METER (dB METERS)** are precision Instruments and feature digital numeric displays which can easily be read from a distance. These meters have been designed to ANSI S1.4 standard as published by the American National Standards for sound level meters.

SPL 120

Model SPL 120–Portable battery operated dB meter with built-in microphone

Model SPL 120L–Portable battery operated dB meter with detachable omni microphone Range 35dB to 123dB

Model SPL 162–portable 162dB SPL meter

Model SPL 162R–Portable 162dB SPL meter with detachable microphone (included)

Model SPL 120RM3–Rack mount dB meter with 3 switchable inputs 3 MK8 microphones included

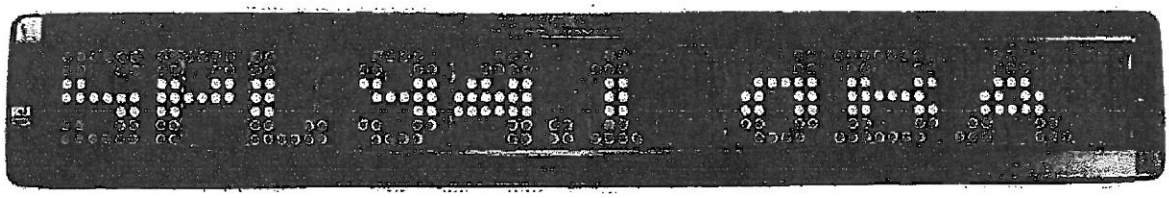
SPL 120RM3

CONTROL SOUND LEVELS

http://www.gold-line.com/slc1.htm

Model SLC 1– The Model SLC 1 is a single rack space Sound Pressure Level meter with special triggering circuits. When monitored sound exceeds a specified level, a relay connected to a switched output is activated. The switched output can then activate connected ancillary equipment which can be used to notify the manager, light a light, ring a bell, or activate a compressor. It can even be used to activate a counter to determine how often sound exceeds the specified level. The choice of ancillary equipment is made by the installer to accommodate the particular situation. A second relay allows the SLC1 to reduce sound levels by 6dB (20%) for 5 seconds. This feature is designed to encourage performers / DJs to reduce to the specified sound level.

SPL SIGN



- Rack Mounted Pressure Level Meter with electronic message display.
- Combine SPL readings with custom display messages.
- Visible at 150 feet

The **SPL SIGN** consists of a 19 inch rack mounted sound level meter that interfaces with a Beta Brite sign. It is supplied with a measurement microphone. The standard model measures sound levels up to 123dB. It can be supplied with a high SPL microphone to measure levels of sound up to 162dB. The SPL Sign is supplied with a controller allowing the user to either display the SPL or to program the display to show Specials, Upcoming Events, or any other message.

http://www.gold-line.com/splsign.htm

KINETICS
1" and 2" Deflection Isolation Hangers
Model SRH

Features
- **Epoxy Powder Coated Bracket and Spring Coil**
- **Self-Centering Cap Patent No. 5,653,426**

Application
Kinetics Model SRH hangers are used to isolate suspended sources of both noise and vibration. Suspended mechanical equipment such as in-line fans, cabinet fans, and piping and ductwork in close proximity to mechanical equipment are typical uses of Model SRH hangers featuring the patented ***No-Short*** self-centering cap.

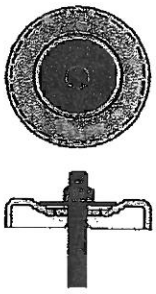
Kinetics' minimum recommendation for the placement of spring hangers is that they be installed on all piping in the equipment room and on the first 50' (15 m) for piping that extends outside of the equipment room. For typical installations, the three spring hangers closest to the equipment should have equal deflection to the equipment isolators. The remaining spring hangers should have a minimum deflection of 1" (25 mm). In noise sensitive areas, the pipe hangers selected should have the same deflection as that specified for the equipment isolation and all piping in the building should be isolated.

High sound transmission loss ceiling systems can be isolated by the use of Model SRH hangers in the ceiling suspension system.

Standard Model SRH hangers are shipped fully assembled and ready for installation in threaded metal rod suspension systems.

Model SRH hangers are available in a wide range of load and static deflection selections and can be provided with labor-saving accessories for adaption to wire or strap suspension systems, and may be preloaded or provided with positioning plates for ease in erecting piping at a fixed elevation.

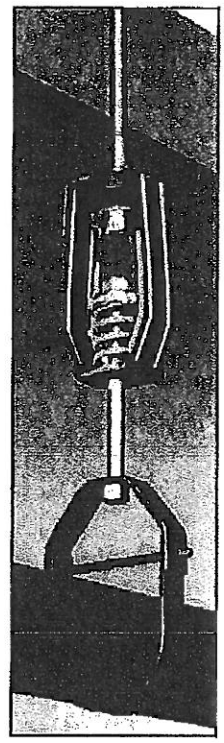
Self-Centering No-Short Cap



How the self-centering no-short cap works:

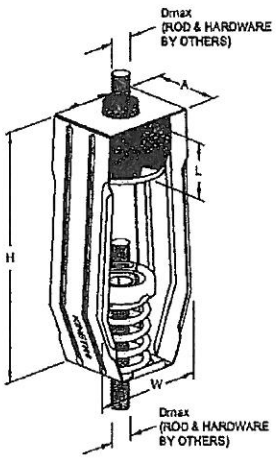
Indexed steps in spring cap correspond to standard washer diameters for the appropriate rod diameter. The washer and rod stay centered in the cap.

Patent No. 5,653,426



Description
Kinetics Model SRH vibration isolation hangers consist of free-standing, large diameter, laterally stable steel springs in series with an elastomer-in-shear insert, assembled into a stamped or welded hanger bracket. To assure stability, the spring element has a minimum lateral spring stiffness of 1.0 times the rated vertical stiffness. Hangers with properly deflected coils will allow a support rod misalignment through a 30° arc without short circuiting. Isolation brackets will carry a 500% overload without failure. Hangers are available in deflections from 1.20" to 2.40" (30 to 61 mm), and in capacities from 35 to 3500 lbs. (16 to 1588 kg). Model SRH hangers are superior to hangers which incorporate only springs, which can transmit noise through the all metal construction, and hangers which incorporate only pads, which can transmit low frequency vibration. Kinetics Model SRH hangers are recommended for the isolation of vibration produced by suspended mechanical equipment, low-speed suspended fans, transformers, ductwork, piping, etc.

Isolator Type	Spring Color	Rated Capacity		Rated Deflection		Spring O.D.		L		H		W		A		Dmax	
		Lbs	kg	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
SRH-1-35	Blue	35	16	1.61	41	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-70	Green	70	32	1.55	39	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-125	Gray	125	57	1.56	40	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-245	Brown	245	111	1.52	39	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-370	Orange	370	168	1.29	33	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-500	Beige	500	227	1.45	37	1.75	45	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-600	Chrome	600	273	1.35	34	1.75	45	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-700	Beige/Wh	700	318	1.40	36	1.75	45	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-805	Chr/Wh	805	365	1.25	32	1.75	45	1.89	48	7.38	187	3.69	94	2.25	57	0.63	16
SRH-1-250	Blue	250	113	2.12	54	3.00	76	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-450	Green	450	204	1.94	49	3.00	76	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-625	Black	625	283	1.80	46	3.00	76	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-800	Gray	800	363	1.55	39	3.00	76	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-1000	Red	1000	454	1.45	37	3.00	76	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-1250	Brown	1250	567	1.38	35	3.00	76	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-1700	Orange	1700	771	1.35	34	3.00	76	2.00	51	8.59	218	5.58	142	3.63	92	0.88	22
SRH-1-2200	Org/Gray	2200	998	1.52	39	3.00	76	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-1-2465	Blue	2465	1118	1.58	40	3.00	76	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-1-2865	Blu/Gray	2865	1300	1.69	43	3.00	76	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-1-3500	Blu/Brn	3500	1588	1.82	46	3.00	76	1.85	47	9.50	241	5.00	127	4.75	121	0.88	22
SRH-2-35	Blue	35	16	2.09	53	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-70	Green	70	32	2.19	56	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-120	Gray	120	54	2.32	59	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-220	Brown	220	100	2.29	58	1.75	45	1.72	44	7.38	187	3.69	94	2.25	57	0.50	13
SRH-2-260	Blue	260	118	2.21	56	3.00	76	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-465	Green	465	211	2.01	51	3.00	76	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-720	Black	720	327	2.07	53	3.00	76	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-850	White	850	386	1.97	50	3.00	76	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-1025	Beige	1025	465	1.99	51	3.00	76	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-1200	Chrome	1200	544	2.00	51	3.00	76	1.75	44	8.59	218	5.58	142	3.63	92	0.88	22
SRH-2-2000	Orange	2000	907	2.08	53	5.00	127	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-2500	Blue	2500	1134	2.10	53	5.00	127	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-2750	Blu/Blu	2750	1247	2.12	54	5.00	127	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-3025	Blu/Gm	3025	1372	2.14	54	5.00	127	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25
SRH-2-3250	Blu/Blk	3250	1474	2.14	54	5.00	127	1.75	44	12.00	305	6.00	152	6.00	152	1.00	25



Specifications

Vibration isolators for suspended equipment with minimum static deflection requirement exceeding 0.4" (10 mm), and where both high and low frequency vibrations are to be isolated, shall be hangers consisting of a laterally stable spring in series with an elastomer-in-shear insert complete with load transfer plates and assembled in a stamped or welded steel bracket.

The bracket shall be finished with an epoxy-based powder coating. The manufacturer shall provide independent laboratory testing showing that the bracket with this finish has endured a minimum of 1,000 hours of exposure to salt spray fog testing per ASTM B117 without signs of corrosion.

The elastomer insert shall be molded from oil-resistant compounds and shall be color coded to indicate load capacity and selected to operate within its published load range.

The spring element shall have a minimum lateral stiffness of 1.0 times the rated vertical stiffness.

Springs shall be color coded or otherwise identified to indicate load capacity.

The hanger bracket shall be designed to carry a 500% overload without failure and to allow a support rod misalignment through a 30° arc without metal-to-metal contact or other short circuit.

The hanger bracket shall incorporate spring caps with indexed steps which correspond to the washer diameter of the appropriately sized hanger rod to keep the rod centered in the spring cap and reduce rod misalignment.

Isolation hangers shall be selected by the manufacturer for each specific application to comply with deflection requirements as shown on the *Vibration Isolation Schedule* or as indicated on the project documents.

The combination isolation hanger assembly with neoprene insert shall be Model SRH, as manufactured by Kinetics Noise Control, Inc.

KINETICS Noise Control

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INSTALLATION INSTRUCTIONS FOR SRH HANGER

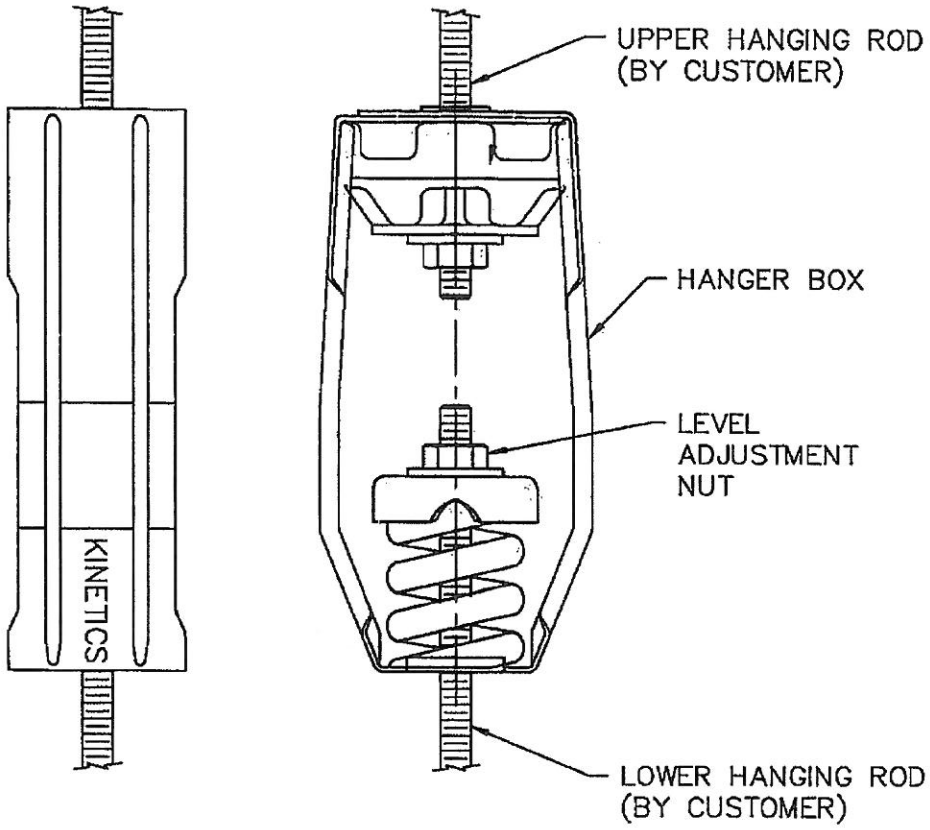
1) LOCATE EACH HANGER INTO POSITION BASED ON SUBMITTAL DRAWING USING COLOR CODED SPRINGS AS IDENTIFICATION.

2) ATTACH HANGER BOX TO UPPER HANGING ROD AS SHOWN IN SKETCH.

3) ATTACH EQUIPMENT TO LOWER HANGING ROD AS SHOWN IN SKETCH.

4) IF NECESSARY, ADJUST EQUIPMENT LEVEL BY THE LEVEL ADJUSTMENT NUT ON THE TOP OF THE COIL SPRING AS SHOWN IN SKETCH.

5) CHECK TO ENSURE ADEQUATE ALIGNMENT BETWEEN THE LARGE HOLE IN THE HANGER BOX (AT THE BASE OF SPRING) AND THE LOWER HANGING ROD.

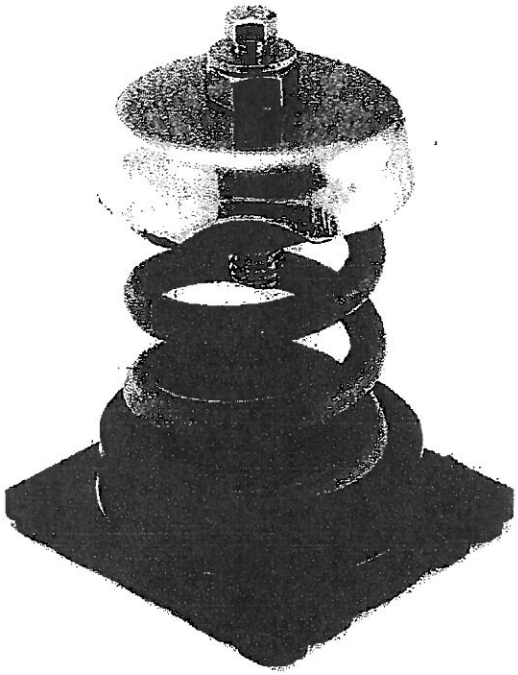


KINETICS Noise Control	TITLE MODEL SRH HANGER INSTALLATION INSTRUCTIONS	LAST DATE REVISED 07/23/98	DRAWN BY DCB	DRAWING NO. SS-980723

KINETICS™
Free Standing Spring Isolators
Model FDS 1 and 2

Description

Kinetics Model FDS Spring Vibration Isolators consist of high deflection, free-standing, unhoused, large diameter, laterally stable steel springs assembled into an upper load plate and leveling assembly. To assure stability, the spring isolators have lateral spring stiffness greater than 1.0 times the rated vertical stiffness and are designed to provide a minimum of 50% overload capacity. Springs are epoxy powder coated, with a 1000-hour salt spray rating per ASTM B-117. In lighter capacities, FDS Spring Isolators have molded neoprene bottom load plate assemblies. In heavier capacities, springs are welded to the load plate assemblies and are furnished with a neoprene noise isolation pad. FDS Isolators have provisions for bolting the isolator to the structure. FDS Isolators are available with deflections to 2" (51 mm) and with load capacities to 18,000 lbs. (8165 kg) as standard products. Custom isolators with higher deflection and greater load capacities are also available. Kinetics Model FDS Spring Isolators are highly effective for control of both high and low frequency vibration produced by reciprocating air or refrigeration compressors, pumps, packaged air handling and air conditioning equipment, centrifugal and axial fans, internal combustion engines, etc.

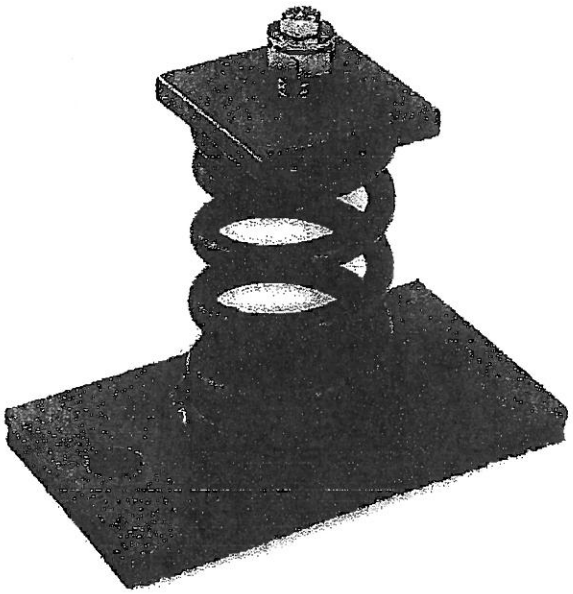


Application

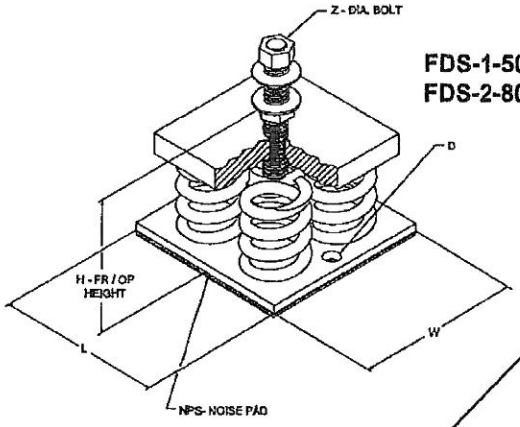
Kinetics Model FDS spring mounts are recommended for use in isolating floor mounted sources of noise and vibration located near critically quiet areas.

Model FDS spring mounts are typically used to reduce the transmission of noise and vibration from low speed mechanical equipment into a building structure. Operating static deflections are available to 2" (51 mm) to compensate for long span floor structures.

Model FDS spring mounts are used in a wide range of applications, some requiring Kinetics equipment bases in addition to spring isolators, and can be used to support and isolate the following equipment types: reciprocating air or refrigeration compressors, close coupled and base mounted pumps, packaged air handling and refrigeration equipment, centrifugal fans, internal combustion engines, and similar equipment. Model FDS Isolators are for use on equipment that is not subject to lateral forces such as wind.



Isolator Type	Spring Color	Rated Capacity		Rated Deflection		Rated O.D.		Free Height		L		W		D		H		Z	
		lbs.	kg	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
FDS-1-35	Blue	35	16	1.52	39	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-70	Green	70	32	1.36	35	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-120	Gray	120	54	1.18	30	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-220	Brown	220	100	1.07	27	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-370	Orange	370	168	0.96	24	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-500	Beige	500	227	1.00	25	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-600	Chrome	600	272	1.00	25	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-700	Beige/Wh	700	318	1.00	26	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-805	Chr/Wh	805	365	1.01	26	1.75	44	3.19	81	2.63	67	2.63	67	0.69	17	4.19	106	0.38	10
FDS-1-50	Beige	50	23	1.00	25	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-100	Chrome	100	45	1.00	25	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-250	Blue	250	113	1.79	45	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-450	Green	450	204	1.54	39	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-625	Black	625	283	1.44	37	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-800	Gray	800	363	1.31	33	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-1000	Red	1000	454	1.15	29	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-1250	Brown	1250	567	1.09	28	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-1700	Orange	1700	771	0.95	24	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-2200	Org/Gray	2200	998	1.00	26	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-2465	Blue	2465	1118	1.00	25	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-2865	Blue/Gray	2865	1300	1.00	25	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-3500	Blue/Brn	3500	1588	1.00	25	3.00	76	4.20	107	3.88	98	3.88	98	1.00	25	5.44	138	0.38	10
FDS-1-120B	Gray	120	54	1.18	30	1.75	44	3.19	81	4.50	114	2.50	64	0.56	14	4.25	108	0.38	10
FDS-1-220B	Gray	220	100	1.07	27	1.75	44	3.19	81	4.50	114	2.50	64	0.56	14	4.25	108	0.38	10
FDS-1-370B	Gray	370	168	0.96	24	1.75	44	3.19	81	4.50	114	2.50	64	0.56	14	4.25	108	0.38	10
FDS-1-500B	Gray	500	227	1.00	25	1.75	44	3.19	81	4.50	114	2.50	64	0.56	14	4.25	108	0.38	10
FDS-1-600B	Gray	600	272	1.00	25	1.75	44	3.19	81	4.50	114	2.50	64	0.56	14	4.25	108	0.38	10
FDS-1-700B	Gray/Gray	700	318	1.00	25	1.75	44	3.19	81	4.50	114	2.50	64	0.56	14	4.25	108	0.38	10
FDS-1-805B	Gray/Gray	805	365	1.01	26	1.75	44	3.19	81	4.50	114	2.50	64	0.56	14	4.25	108	0.38	10
FDS-1-50B	Gray	50	23	1.00	25	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-100B	Gray	100	45	1.00	25	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-250B	Gray	250	113	1.79	45	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-450B	Gray	450	204	1.54	39	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-625B	Grey	625	283	1.44	37	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-800B	Gray	800	363	1.31	33	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-1000B	Gray	1000	454	1.15	29	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-1250B	Gray	1250	567	1.09	28	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-1700B	Gray	1700	771	0.95	24	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-2200B	Gray/Gray	2200	998	1.00	26	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-2465B	Gray	2465	1118	1.00	25	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-2865B	Gray/Gray	2865	1300	1.00	25	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-3500B	Gray/Gray	3500	1588	1.00	25	3.00	76	4.20	107	7.00	178	4.00	102	0.69	17	5.63	143	0.38	10
FDS-1-2500B	Gray/Gray	2500	1134	1.09	28	3.00	76	4.20	107	10.00	254	4.00	102	0.69	17	6.25	159	0.50	13
FDS-1-3400B	Gray/Gray	3400	1542	0.95	24	3.00	76	4.20	107	10.00	254	4.00	102	0.69	17	6.25	159	0.50	13
FDS-1-4400B	Gray/Gray	4400	1996	1.00	26	3.00	76	4.20	107	10.00	254	4.00	102	0.69	17	6.25	159	0.50	13
FDS-1-4930B	Gray/Gray	4930	2236	1.00	25	3.00	76	4.20	107	10.00	254	4.00	102	0.69	17	6.25	159	0.50	13
FDS-1-5730B	Gray/Gray	5730	2599	1.00	25	3.00	76	4.20	107	10.00	254	4.00	102	0.69	17	6.25	159	0.50	13
FDS-1-7000B	Gray/Gray	7000	3175	1.00	25	3.00	76	4.20	107	10.00	254	4.00	102	0.69	17	6.25	159	0.50	13
FDS-1-5000B	Gray	5000	2268	1.09	28	3.00	76	4.20	107	8.00	203	8.00	203	0.69	17	6.88	175	0.50	13
FDS-1-6800B	Gray	6800	3084	0.95	24	3.00	76	4.20	107	8.00	203	8.00	203	0.69	17	6.88	175	0.50	13
FDS-1-8800B	Gray/Gray	8800	3992	1.00	26	3.00	76	4.20	107	8.00	203	8.00	203	0.69	17	6.88	175	0.50	13
FDS-1-9860B	Gray	9860	4472	1.00	25	3.00	76	4.20	107	8.00	203	8.00	203	0.69	17	6.88	175	0.63	16
FDS-1-11460B	Gray/Gray	11460	5198	1.00	25	3.00	76	4.20	107	8.00	203	8.00	203	0.69	17	6.88	175	0.63	16
FDS-1-14000B	Gray/Gray	14000	6350	1.00	25	3.00	76	4.20	107	8.00	203	8.00	203	0.69	17	6.88	175	0.63	16



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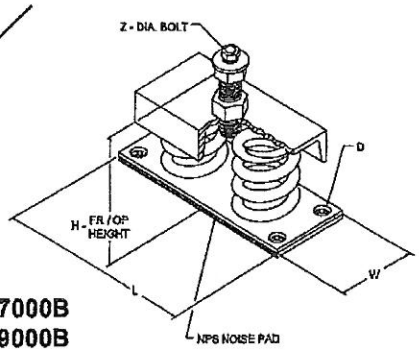

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