May 29th, 2014

RE: ADDENDUM #2
Project Address – 513 Garden Street

Prepared by: Mark Shkolnikov

The following is a list of responses to RFI's received up until the end of Wednesday, May 28th, 2014

ARCHITECTURAL:

1. **Acoustical underlayment under tile, shown on Sheet A8.4/Detail 2 is not described in the specs. Please clarify locations and product.**

   Response: Per info provided by the following link:
   http://www.ctioa.org/reports/fr66.html

   Either "0.4 inch thick Enkasonic"
   http://www.maxxon.com/enkasonic/data

   Or

   "5/8 inch SR Floorboard"
   http://www.kineticsnoise.com/arch/pdf/sr.pdf

   (See Cut Sheet(s) attached)

2. **Indicate the finish for the apron of the bathtubs.**

   Response: The apron of the bathtubs will be finished in Solid Surface Paneling, Typ. (Note 131)

3. **In the Project Manual, Pg. 39, 11-450 Appliances, it reads: "contractor to furnish and install all items per appliance schedule." Conversely, in the Appliance Schedule Note it reads: "All appliances to be provided by Owner and installed by contractor. Please clarify which party is supplying and/or installing the appliances.**

   Response: Contractor to furnish and install all appliances.

CIVIL

1. **What is the sewer depth?**

   Response: The topo provided did not have manhole invert elevations in the area but we assume a sewer depth of 8-10 ft. The site is being served currently with a 4" service and we assumed that a new adjacent 6" connection would mimic the existing service path of travel. Preferable we would like to see an invert of 7.5 at the onsite cleanout if feasible.

2. **Where is the dry utility information?**

   Responses: We do not provide dry utility design but looking at the existing information it appears a dry utility run could be proposed down the middle of the driveway, this of course would need to be coordinated with the appropriate agencies.

ELECTRICAL:

1. **The Door Signal Device is indicated on A0.3/Note 259. I do not see any information on these devices in the electrical drawings or specs. Please clarify make and model.**

   Response: Manufacturer: LifeSource Water Systems
   Model: 2250 (Premiere Series)

   (See Cut Sheet attached)

2. **Electrical Fixture Type D has been discontinued.**

   Response: Please provide an allowance of $125 / fixture in place of Type D - which will be selected at a later date.

3. **Electrical Fixture Type B model number has been mislabeled.**

   Response: Model: 4157.13 Drum (Satin Nickel)

   (See Cut Sheet attached)

4. **Electrical Fixture Type K "Glarebuster" no longer offered in Bronze finish.**

   Response: Proceed with Glarebuster in **White**. 10' **White** Pole (special order available) from Ruud Lighting or approved equal.

   (See Cut Sheet attached)

PLUMBING:

1. **Sheet M2.1/Note 12 indicates a water softening system. This system is not identified or described in the plumbing drawings. Please advise.**

   Response: Manufacturer: LifeSource Water Systems
   Model: 2250 (Premiere Series)

LANDSCAPE:

1. **The landscape plan L-1 references a patio and seat wall on the civil and architectural plans (in common outdoor living space). This is not reflected in the civil or architectural plans. Would you please provide details for this area or should we assume it is some form of hardscape by others?**

   Response: Consistent with the architectural and civil plans, the seatwall shown on sheet L-1 shall be deleted.

2. **The landscape plans show a gravel bike parking area with a redwood header (type of gravel not specified, Sht:L-1, Sht:L-5. A.), while the civil plans show GravelPave. Please clarify type of gravel or that this area will be GravelPave?**

   Response: Per the civil plans, the gravel bike parking area shall be GravelPave, with 3/8" 'California Gold' gravel cover.

3. **Will the LiveRoof system have an automated irrigation system (Sht:L-2, Notes, LiveRoof #3 & Sht:L-5, Notes, Irrigation Notes #5) or will they be hand watered (L-4, top callout)? Please clarify and provide detail for automated irrigation system.**

   Response: Regarding the LiveRoof on roof level 3, the LiveRoof configuration shall be revised from four separate live roof elements as shown on the plans to one large contiguous rectangle incorporating the same outside footprint as the four smaller live roof elements as currently shown. Contractor shall provide and install all additional LifeRoof trays, plantings, equipment and irrigation system to accommodate the additional LifeRoof materials.

   The Contractor shall provide and install a overhead microspray irrigation system for all LiveRoof plantings. Point-of-connection shall be at the one of the hose bibs shown. Work shall include but not limited to the installation of a ball valve, backflow device, pressure regulator, piping and spray nozzles and battery-operated control valve. Installation shall be per manufacturer's recommendations. Final layout shall be approved by the Landscape Architect.

4. **How will the LiveRoof system integrate with the surrounding rooftop? Is there a finished header around the modules?**

   Response: The LiveRoof system shall incorporate the use of standard edge modules per the manufacturer's recommendations.

5. **Shall the planting areas receive bark (L-1, Landscape Notes) or DG mulch (L-5, Plant Notes)? Please clarify.**

   Response: Bark mulch (3") shall be installed in all planting areas.

6. **Will the parking lot trees be staked and should root barriers be used?**

   Response: Root control barriers (panel-type) shall be installed with all trees. All trees shall be double-staked per detail

Additional Information:

1. The contractor shall provide and install an automatic drip irrigation system for the purpose of irrigating all rectangular planters shown on the plans (all round planters shall be self-watering type). The point-of-connection(s) shall be at the hose bibs shown on the plans. The irrigation system shall include but not be limited to ball valves, backflow device, pressure regulator, y-filter, irrigation pipe, drip tubing and emitters, and battery-operated remote control valves. The Contractor shall provide and submit a shop drawing for review and approval by the Landscape Architect prior to installation. Final layout of all piping shall be approved by the Landscape Architect.

2. Contractor shall coordinate the installation of four (4) additional hose bibs on the roof as shown on the attached plan revisions. **Coordinate with Plumbing.**

END ADDENDUM #2

Please let me know if you have any questions or comments.

Thanks,
Mark

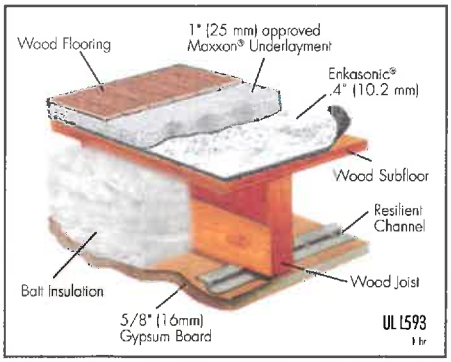
another superior product from
MAXXON
CORPORATION

THE ORIGINAL SOUND CONTROL MAT

ENKASONIC®

UPGRADED SOUND CONTROL FOR HIGH END MULTIFAMILY HOUSING

Ideal for luxury developments, Enkasonic® creates sound-rated floors that achieve the higher IIC and STC levels established by the International Code Council for 'recommended' or 'preferred' noise reduction. A durable and proven solution, it is the only mat that has been tested after 10 years of use. Enkasonic retained 97% of its original thickness, was as pliable as a new roll, and performed equally to a newly manufactured roll. It increases IIC levels up to 12 points over wood frame, and up to 20 points over concrete. When installed with a Maxxon Underlayment, it also increases the STC rating 6–15 points over a bare wood frame system. Enkasonic meets the stringent VOC emissions criteria of GREENGUARD Gold Certification and is always made with 40% pre-consumer recycled content. It is also offered with optional water resistant fabric.



ENKASONIC
Always a "Green" Building Material

Enkasonic®
The Original Sound Control Mat

SOUND TESTS

Floor System	Topping	Insulation	Resilient Channel	Ceiling Drywall	Floor Covering	Rating	Test Numbers
2x10 WOOD JOIST *w/ 5/8" (16 mm) plywood subfloor*	1 ½" min. (38 mm) Maxxon*	Yes	Yes	5/8" (16 mm)	Ceramic Tile	57 IIC	IN88-2
PARALLEL CHORD TRUSS *16" deep, 24" oc plywood subfloor*	1" min. (25 mm) Maxxon*	Yes	Yes	5/8" (16 mm)	Tile	54 IIC	F13-131
	1" min. (25 mm) Maxxon*	Yes	Yes	5/8" (16 mm)	Vinyl Plank	54 IIC	F13-130
	1" min. (25 mm) Maxxon*	Yes	Yes	5/8" (16 mm)	None	62 F-STC	22613-4STC
4" PRECAST CONCRETE *4'x2' (102 mm x 610 mm)*	Double layer cement board	No	No	None	Tile	55 F-STC	90-155
	Double layer cement board	No	No	None	Tile	52 F-IIC	90-8
8" HOLLOWCORE PRECAST CONCRETE *8'x2' (203 mm x 610 mm)*	7/16" (11 mm) Wonder-Board	No	No	None	Tile	59 STC, 52 IIC	83-17, 83-1
	1¼" (32 mm) mortar bed	Yes	Yes	5/8" (16 mm)	Tile	61 STC, 62 IIC	82-165, 82-11
	1¼" (32 mm) mortar bed	No	No	None	Tile	60 STC, 54 IIC	82-166, 82-12
	1¼" (32 mm) mortar bed	Yes	Yes	5/8" (16 mm)	Vinyl	61 STC, 67 IIC	82-141, 82-9
	2 layers - 3/8" plywood	Yes	Yes	5/8" (16 mm)	T&G Oak	60 STC, 61 IIC	82-98, 82-7
8" HOLLOWCORE PRECAST CONCRETE *8'x2' (203 mm x 610 mm), no ceiling*	1 ½" min. (38 mm) Maxxon*	No	No	None	Vinyl Plank	57 F-IIC	B2863.08-201-10
	1 ½" min. (38 mm) Maxxon*	No	No	None	DuraCeramic Tile	61 F-IIC	B2863.07-201-10
	1 ½" min. (38 mm) Maxxon*	No	No	None	Wood	61 F-IIC	B2863.09-201-10
No Enkasonic (control)	1 ½" min. (38 mm) Maxxon*	No	No	None	None	19 F-IIC	B2863.13-201-10
HAMBRO D-500 COMPOSITE FLOOR SYSTEM	1 ½" min. (38 mm) Maxxon*	No	Yes	1/2" (12 mm)	Vinyl	53 IIC	7004079
	1 ½" min. (38 mm) Maxxon*	No	Yes	1/2" (12 mm)	Quarry Tile	54 IIC	7004078
	1 ½" min. (38 mm) Maxxon*	No	Yes	1/2" (12 mm)	Floating Laminate	55 IIC	7004080
	1 ½" min. (38 mm) Maxxon*	No	Yes	1/2" (12 mm)	Quarry Tile	54 STC	5004027
	1 ½" min. (38 mm) Maxxon*	No	Yes	1/2" (12 mm)	Glue Down Wood	51 IIC	7004084
TJI JOIST *w/ 3/4" (19 mm) T&G Plywood subfloor*	1¼" min. (32 mm) Maxxon*	Yes	Yes	2 layers - 5/8" (2x16 mm)	Ceramic	56 F-IIC	48-06-01
	1¼" min. (32 mm) Maxxon*	Yes	Yes	2 layers - 5/8" (2x16 mm)	Ceramic	57 F-STC	48-06-02

* Approved Maxxon Underlayment

SOUND TEST INFORMATION: F-IIC (Field Impact Insulation Class) sound tests were performed in accordance with ASTM E 1007 and E989. F-STC (Field Sound Transmission Class) sound tests were performed in accordance with ASTM E 336 and E 492. Actual tests and assembly details are available upon request. Maxxon Underlayments and Enkasonic® are but single components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the installation of all components of construction to ensure the ultimate designed acoustical performance.

WARRANTY: Maxxon® Corporation warrants Enkasonic to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of Enkasonic. Because Maxxon Corporation does not perform the actual installation, it cannot be held responsible for the results of the application. Maxxon Corporation specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques. This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of a particular purpose and of all other obligations or liabilities on Maxxon Corporation's part. Maxxon Corporation neither assumes nor authorizes any person to assume for Maxxon Corporation any liability in connection with the sale and installation of Enkasonic.

TECHNICAL DATA

Description ..... Entangled polymeric filament mat
Thickness ..... 0.4" (10.2 mm)
Density ..... 4.65 pcf (74.4 kg/m³)
Thermal Resistance R-Value (ft²•°F•h/BTU)
- Mat Only 0.780
- 1" Maxxon Underlayment 0.193
- Mat/Underlayment System 0.973

Underlayment Depth ..... 1" (25 mm)
Fire Performance ASTM E-84
(with approved Maxxon Underlayment)
- Fuel Contribution 0
- Smoke Contribution 0
- Flame Spread 0

Pressure/Deflection
- 500 psf (2,440 kg/m²) ..... 0.067" (1.70 kg/m³)
- 1000 psf (4,880 kg/m²) ..... 0.116" (2.95 kg/m³)
- 2000 psf (9,760 kg/m²) ..... 0.172" (4.37 kg/m³)
- 4000 psf (19,520 kg/m²) ..... 0.244" (6.20 kg/m³)

FIRE/SOUND RATINGS

Evaluation Reports - Meeting fire and sound codes together

Accepted by local building officials for fire and sound code compliance, Evaluation Reports are technical reports which verify that specific products meet the following code requirements and warrant regulatory approval. Minimum code requirements: Sound - 50 STC/IIC, Fire - 1 Hour

International Code Council

ICC ESR #2540 *For the following assembly types:*
- Parallel Chord Truss
- I-Joist
- Precast Concrete
- 2x10 Wood Truss
- Steel Joist

Additional ICC ES Reports: ESR #1141, ESR #1153, ESR #1774

Underwriters Laboratory International

UL ER #8477-01 *For the following assembly types:*
- Parallel Chord Truss
- I-Joist
- Steel Joist
- 2x10 Wood Truss
- Hambro
- Precast Concrete

FIRE RATINGS

UL Design

G230	L006	L516	L542	L583
G516	L201	L517	L543	L585
G524	L202	L518	L545	L588
G551	L206	L519	L546	L589
G553	L208	L520	L547	L590
G560	L209	L522	L549	L592
G561	L210	L523	L551	L593
G563	L211	L524	L552	L599
G566	L212	L525	L556	M500
G569	L501	L526	L557	M502
G571	L502	L527	L558	M503
G574	L503	L528	L560	M504
G576	L504	L529	L562	M505
G587	L505	L530	L563	M507
J917	L506	L532	L564	M508
J919	L507	L533	L565	M510
J920	L508	L534	L569	M511
J924	L509	L535	L570	M513
J927	L510	L536	L573	M514
J931	L511	L537	L574	M515
J957	L512	L538	L576	M518
J958	L513	L539	L577	M519
J991	L514	L540	L579	
J994	L515	L541	L581	

ULC Design

I530	L511	M501	M520
L003	L512	M503	M521
L201	M500	M514	

LEED® INFORMATION

For information regarding how Enkasonic may contribute toward points for LEED project contribution, contact your Regional Representative at (800) 356-7887 or visit www.maxxon.com/go_green.

ENKASONIC INSTALLATION

step 1 Sound mat is loose laid over the entire concrete or wood subfloor.

step 2 Seams between sections of sound mat are adhered with zip-strips or taped.*

*Once the mat has been loose laid, no further penetrations should be made. Rigid attachment through the sound mat minimizes the sound performance.

step 3 Isolation strips are installed, then taped, around the perimeter of the entire room to eliminate flanking paths. Isolation strips are also installed, then taped, around any vertical penetration through the floor.

step 4 Sound mat is topped with an approved Maxxon Underlayment, at a depth specific to the application. To ensure uniform depth and a smooth finish, installers use a screed to finish the underlayment surface. (If Enkasonic is installed only in hard surface areas, the underlayment is poured directly over the subfloor in areas to be covered with carpet and pad.)

step 5 In as little as two hours after the underlayment has been poured, the floor is hard enough to accommodate foot traffic, so light subtrades may continue working. Total drying time varies depending on the type of finished floor goods to be installed, but is generally completed within 5 to 7 days.

GREENGUARD

Underwriters Laboratories Inc.® Listed

Enkasonic®

The Original Sound Control Mat

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www.MaxxonCorporation.com

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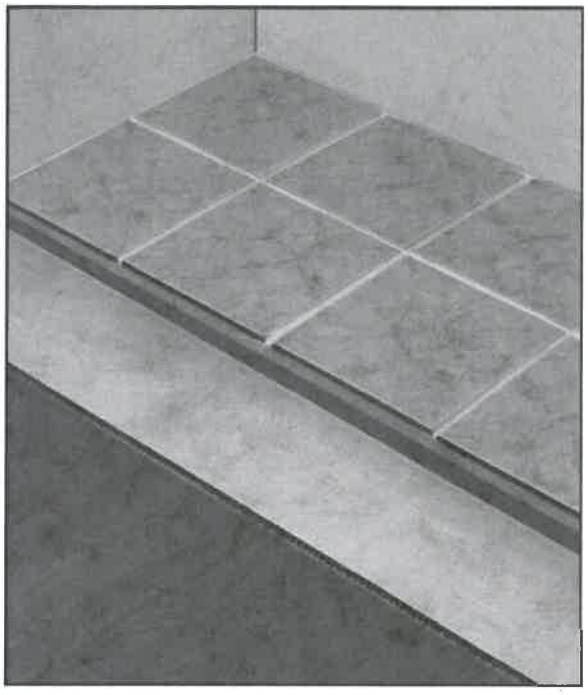
Hamel, MN 55340 USA • 763-478-9600 • Fax: 763-478-2431

KINETICS Noise Control

Sound Rated Floor System

Model SR



Kinetics Model SR Floorboard is a unique underlayment material which substantially reduces sound transmission through hard surface floor systems. Acoustical Lab Ratings of IIC (Impact Insulation Class) 59 to 65 have been achieved in typical applications, compared with IIC-25 to 34 with conventional construction.

Model SR Floorboard is a new concept in the control of noise in condominiums, apartments, multifamily dwellings, commercial buildings, and other areas where footfall and impact noise can be the cause of occupant complaints.

SR Floorboard is a 5/8" (16 mm) thick composite of high density molded glass fibers separated by a rigid phenolic-treated honeycomb core and provides a system which is stiff enough to prevent grout cracking in tile floors while being soft enough to absorb impact loads.

Application

Many occupants have a preference for hard surface floors such as ceramic tile, quarry tile, marble, hardwood flooring, engineered floors, or vinyl tile. Without carpeting to cushion footfalls, impact noise will be heard clearly in the occupied spaces below.

Many localities have adopted building codes which require minimum IIC and STC ratings for floor/ceiling systems. An IIC of 50 or less will result in disturbing impact sounds below. With an IIC of 50 to 60, certain sounds may be audible in the spaces below. Acousticians familiar with noise issues in high end condominium buildings often recommend a lab tested assembly with ratings in the 55 to 60 range to minimize occupant complaints.

For use with either wood frame or concrete structural floors, Model SR Floorboard can be installed with a 1½" (38 mm) reinforced mortar bed or 7/16" (11 mm) glass mesh mortar units to provide a stable underlayment for ceramic tile installations.

Model SR Floorboard systems have successfully met the requirements for durability in accordance with ASTM C627 as tested with ceramic tile finished floors.

Benefits

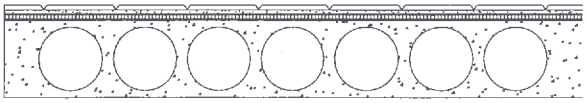
- **Improved IIC +38 points, IIC 21 to IIC 59** on a concrete subfloor with ceramic tile finish
- SR Floorboard will withstand live loads up to 1000 psf
- SR Floorboard maintains its strength even when wet
- SR Floorboard cuts easily using standard construciton knife
- Floor compsites with finished tile flooring can be under two-inches (2") high
- Does not shrink or curl like nylon fiber products

Acoustical Tests

Ceramic Tile
7/16" Glass Mesh Mortar Unit & Bond Coat
Kinetics® SR Floorboard
8" Flexicore Precast Subfloor

This assembly achieves a residential rating per ASTM C627

STC 59 **IIC 59**

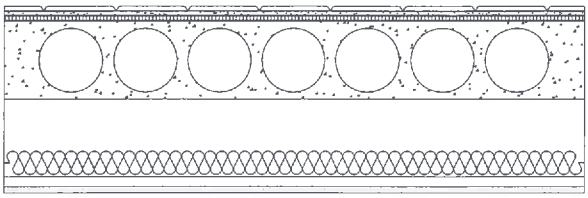


Kinetics Test Number B1

+38 IIC points over bare concrete floor, IIC 21

Ceramic Tile
7/16" Glass Mesh Mortar Unit & Bond Coat
Kinetics® SR Floorboard
8" Flexicore Precast Subfloor
3-1/2" Fiberglass Fill in 10" Air Space
5/8" Gypsum Board on Resilient Channel

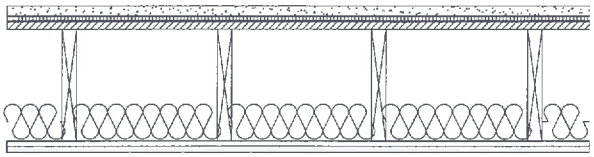
STC 60 **IIC 65**



Kinetics Test Number B3

Vinyl Flooring
1-1/2" Gypcrete
Kinetics® SR Floorboard
3/4" OxBoard
2" x 12" Joist
R-11 Fiberglass Insulation
1/2" Resilient Channel
5/8" Gypsum Board

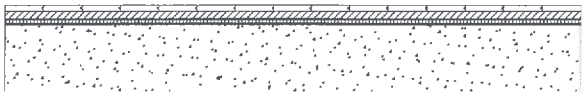
FSTC 53 **FIIC 54**



Kinetics Test Number B5

5/8" Hardwood Flooring
3/4" Plywood Subfloor
Kinetics® SR Floorboard
7" Concrete Slab

FIIC 54



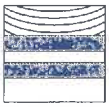
Kinetics Test Number B9

Typical Kinetics Sound Rated Floor Systems

Concrete Structural Floors

STC	IIC	Flooring Material	Flooring Support	Resilent Underlayment	Ceiling Below
60	65	tile	7/16" (11 mm) mortarboard	5/8" (16 mm) SR floorboard	yes
59	59	tile	7/16' (11 mm) mortarboard	5/8" (16 mm) SR floorboard	no
	F-54	wood	3/4' (19 mm) plywood	5/8" (16 mm) SR floorboard	no
44	25	none	none	none	no
Wood Structural Floors					
F-54		Vinyl Tile	1 1/2" (38 mm) gyp-crete	5/8" (16 mm) SR floorboard	yes
34	32	7/8" (22 mm) T & G	none	none	yes

Contact home office for additional details on these and other sound rated floor systems.
Manufactured under U.S. Patent Nos. 4,522,284 and 4,496,024



KINETICS Noise Control

United States
6300 Irelan Place
P.O. Box 655
Dublin, Ohio 43017
Phone: 614-889-0480
Fax: 614-889-0540

Canada
3570 Nashua Drive
Mississauga, Ontario
L4V 1L2
Phone: 905-670-4922
Fax: 905-670-1698

www.kineticsnoise.com
archsales@kineticsnoise.com

Download Model SR information including three-part specification, installation guidelines, and typical installation drawings at **www.kineticsnoise.com/arch/sr.aspx**. *Call the factory at 800-959-1229 if needing additional information; ask for Architectural sales. Purchase Model SR and accessories through your local sales representative* **(www.kineticsnoise.com/arch/rep/)**.

spOre

True | LED illuminated doorbell button
True | standard (non-illuminated) doorbell button

Model: TDB - (LED color choice) - (finish choice)

LED colors: Amber (A), Blue (B), White (W), or non-illuminated (N)

Metal Finishes:
Brushed anodized aluminum (AL)
Architectural Bronze anodize (BZ)
Flat black anodized (BK)

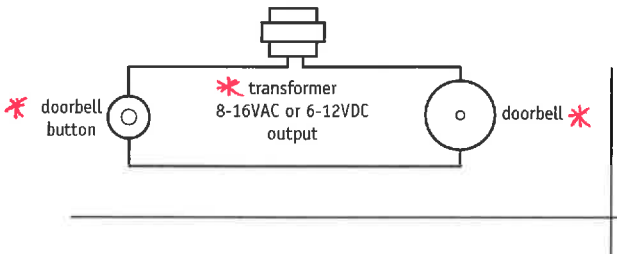
Power Required: 8-16 Volts AC or 6-12 Volts DC
Power Consumption: Less than 1 Watt
Light Source: LED
Switch: Momentary, normally open

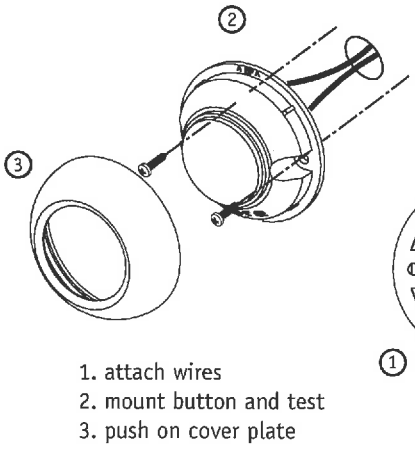
Design: Ted Pierson, 2009. Patents apply.

Applications include call buttons, interactive displays, garage doors, home automation, security systems or as low voltage decorative light points. Custom color or finish may be specified.

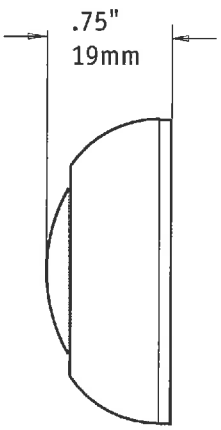
All spOre doorbell buttons work with standard doorbell systems.

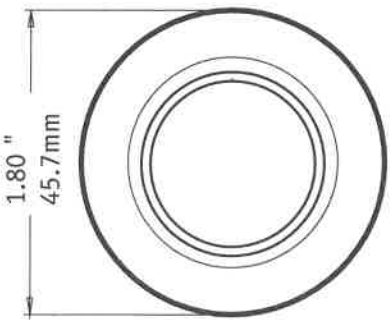
Typical Doorbell System:





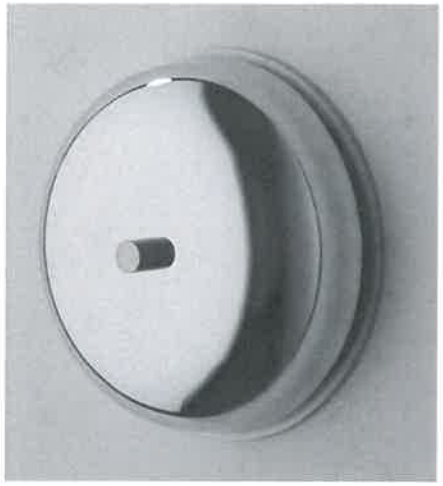
1. attach wires
2. mount button and test
3. push on cover plate





phone | 206 624 9573 fax | 206 374 2729 web | www.sporeinc.com
address | spOre Incorporated PO Box 4758, Seattle,WA 98194 USA

RING | doorbell



The old-school RING doesn't have to hide in the closet. The RING doorbell has a true "ding ding" sound provided by a large 4" diameter bell. RING details and materials are finished to complement spOre doorbell buttons. The hardwire installation is simple.

This spOre doorbell will work with most standard doorbell systems. Typical doorbell systems operate at 8 to 16 Volts AC.

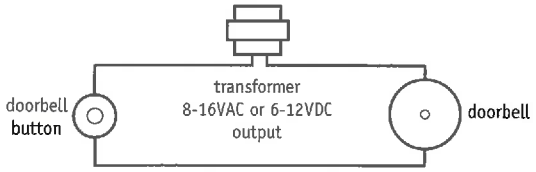
Design: Ted Pierson and Tom Gordon, 2001.

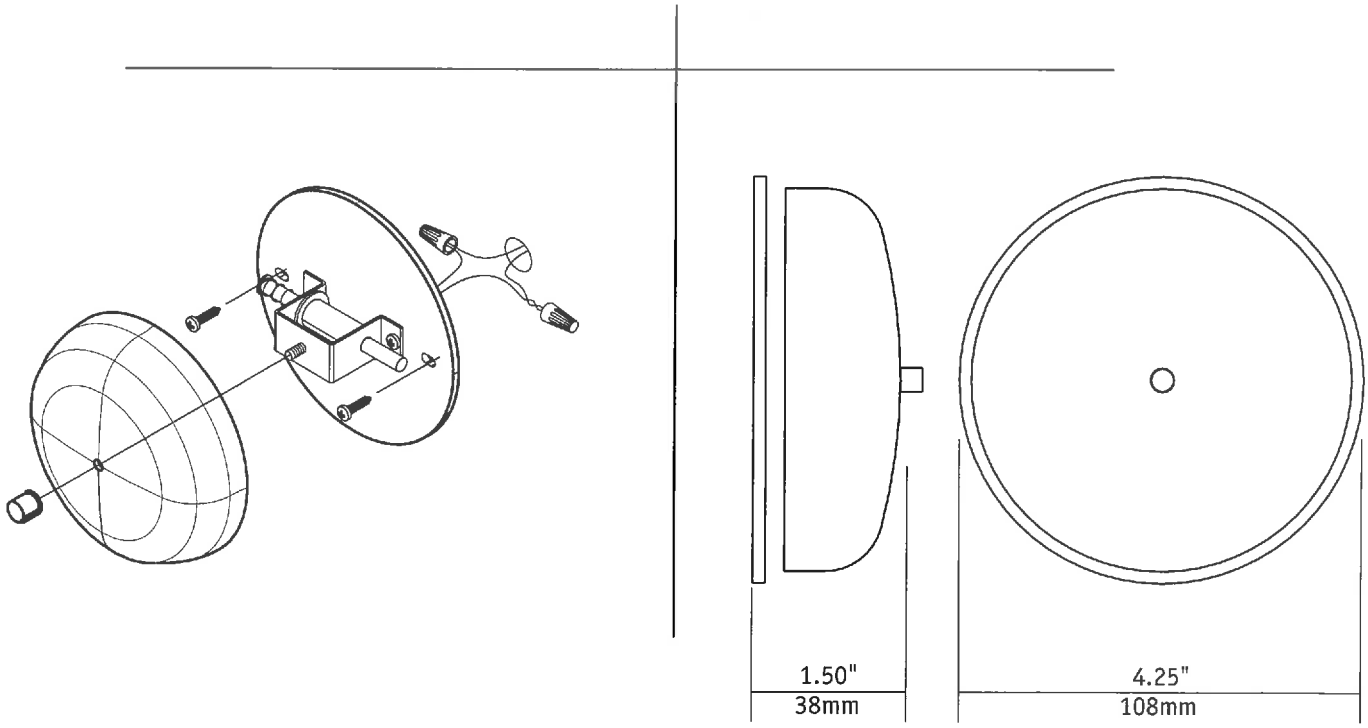
Model: CHR or BZ

Power Required: 8-16 Volts AC or 6-12 Volts DC.

Hardware: The 20 gauge bell is finished with a deep silvery luster. The mounting plate and nut are satin finish anodized aluminum. Mounting screws are provided.

Typical Doorbell System:





phone | 206 624 9573 **fax** | 206 374 2729 **web** | www.sporeinc.com
address | spOre Incorporated PO Box 4758, Seattle,WA 98104 USA

A WAY OF LIGHT

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- GALLERIES
- ABOUT ROBERT SONNEMAN

4157.13 Drum

Like Send

SPECIFICATIONS

UPC	872681011701
Height	6.50
Dia	8.00
Lamping	1
Wattage	60
Bulb Included	N
Bulb Type	A19 Medium Base
Shade Size	4.5"H x 8"Dia
Canopy	6" Dia
Shade Color	White Opal Frosted
Shade Material	Glass
Finishes	Satin Nickel - 4157.13

Drum Family

Download Assembly Instructions

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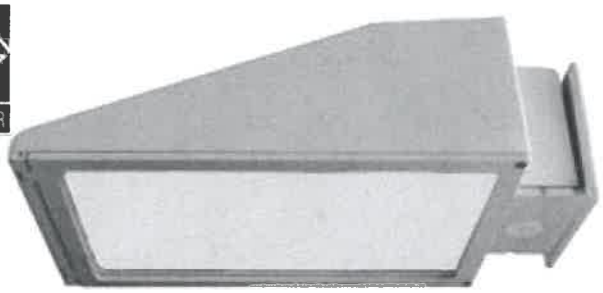
THE ORIGINAL

Approved as 'Dark Sky Friendly' by the International Dark Sky Association

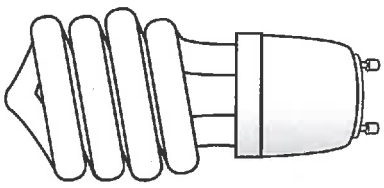
GlareBuster™

Model # GB-2000 • ENERGY STAR®
Patented Design • IES Full Cutoff type



White finish (26w compact fluorescent bulb included)
GlideLock mount • Frosted glass window

Bronze finish (26w compact fluorescent bulb included)
GlideLock mount • Frosted glass window



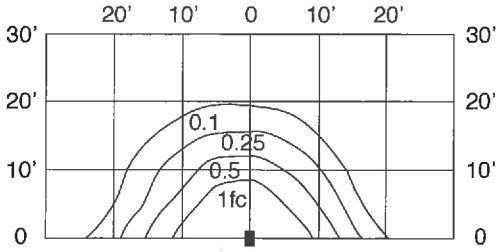
26 watt Bulb (GU-24 base)

Built-in Photocell

Wall/Siding adapters included

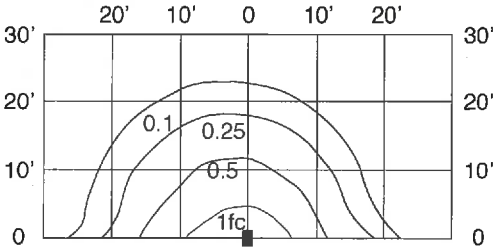
PHOTOMETRIC DATA
(full downloadable info on website)

Iso-Footcandle Curves
26w fluorescent /1700 lumens

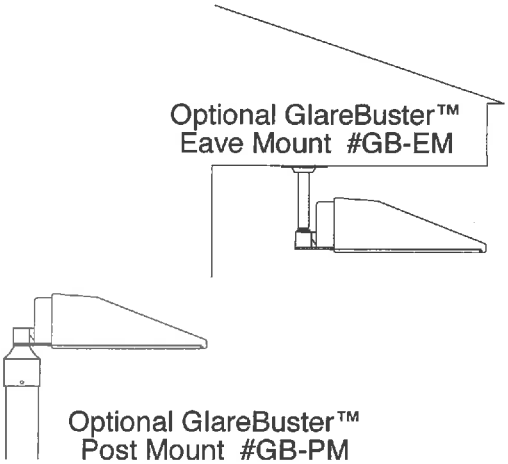


Single GB-2000
Wall Mounted @10'

Iso-Footcandle Curves
26w fluorescent /1700 lumens



Single GB-2000
Wall Mounted @15'



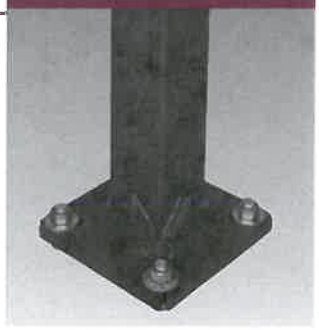
Optional GlareBuster™
Eave Mount #GB-EM

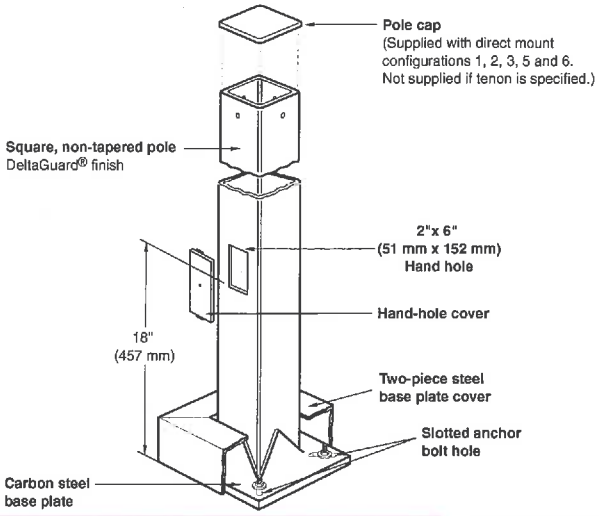
Optional GlareBuster™
Post Mount #GB-PM

PREMIUM STEEL

CROWN-WELD® POLES

PS SERIES





Notes

SPEC #	CATALOG #	POLE SIZE	
		H (ft) x W (in) x Wall (in)	H (m) x W (mm) x Wall (mm)
Square Steel Poles			
☐	SPEC #	PS3S10C(a)BZ	10 x 3 x 0.125	3.0 x 76 x 3
☐	SPEC #	PS3S15C(a)BZ	15 x 3 x 0.125	4.6 x 76 x 3
☐	SPEC #	PS3S20C(a)BZ	20 x 3 x 0.125	6.1 x 76 x 3
☐	SPEC #	PS4S10C(a)BZ	10 x 4 x 0.125	3.0 x 102 x 3
☐	SPEC #	PS4S12C(a)BZ	12 x 4 x 0.125	3.7 x 102 x 3
☐	SPEC #	PS4S15C(a)BZ	15 x 4 x 0.125	4.6 x 102 x 3
☐	SPEC #	PS4S17C(a)BZ	17 x 4 x 0.125	5.2 x 102 x 3
☐	SPEC #	PS4S20C(a)BZ	20 x 4 x 0.125	6.1 x 102 x 3
☐	SPEC #	PS4S22C(a)BZ	22 x 4 x 0.125	6.7 x 102 x 3
☐	SPEC #	PS4S22S(a)BZ	22 x 4 x 0.188	6.7 x 102 x 5
☐	SPEC #	PS4S25C(a)BZ	25 x 4 x 0.125	7.6 x 102 x 3
☐	SPEC #	PS4S25S(a)BZ	25 x 4 x 0.188	7.6 x 102 x 5
☐	SPEC #	PS4S27R(a)BZ	27 x 4 x 0.125	8.2 x 102 x 3
☐	SPEC #	PS4S30R(a)BZ	30 x 4 x 0.125	9.1 x 102 x 3
☐	SPEC #	PS4S30H(a)BZ	30 x 4 x 0.188	9.1 x 102 x 5
☐	SPEC #	PS5S25S(a)BZ	25 x 5 x 0.188	7.6 x 127 x 5
☐	SPEC #	PS5S30S(a)BZ	30 x 5 x 0.188	9.1 x 127 x 5
☐	SPEC #	PS6S30S(a)BZ	30 x 6 x 0.188	9.1 x 152 x 5

Specify (a) pole configuration.

(a) POLE CONFIGURATION

1	Single (direct mount)	5	Triple (direct mount)
2	Twin @ 180° (direct mount)	6	Quad (direct mount)
3	Twin @ 90° (direct mount)	T	Tenon (order tenon separately)

For fixtures with fixed 20° mount, add prefix 2 to configuration numbers:
i.e. 21, 22, 23, 25 and 26.

GENERAL DESCRIPTION

Non-tapered steel poles are supplied with welded base with cover, four galvanized anchor bolts, masonite mounting template and a pole cap (except tenon mount). Each bolt is provided with two washers and two nuts. Steel pole base has slotted holes. Per National Electrical Code requirements, pole is standard with a 2" x 6" (51 x 152 mm) hand hole, located 18" (457 mm) above bottom of pole base. A #10-32 stainless-steel weld stud with grounding lug is located inside pole, opposite hand hole; a hand hole cover is supplied but shipped separately. In addition, 4" x 27' and 4" x 30' poles include an internal 5/16" steel reinforced sleeve welded inside the bottom 24" of the pole, as well as a reinforcement welded around the hand hole for added strength. For EPA ratings, see "Windloading" sheet.

PATENT

US 5,820,255; 6,640,517; Patent pending

MATERIALS

Square, non-tapered pole of structural steel tubing (ASTM A 500); with a minimum yield strength of 46,000 p.s.i. Welded to a formed carbon steel base plate with a minimum yield strength of 36,000 p.s.i.

FINISH

Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with medium bronze ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

LABELS

Ruud Lighting square poles meet or exceed National Electrical Code Requirements. In the US, Ruud square poles are classified by Underwriters Laboratories Inc. for electrical ground bonding; in Canada, they are CSA certified for electrical ground bonding and structural strength.

ACCESSORY

Catalog # REC-GFIBZ (120V)
Wet Listed In-use cover

GFI Outlet Accessory

9201 Washington Avenue Racine, Wisconsin 53406-3772 USA PHONE (262) 886-1900 FAX (262) 884-3309

PREMIUM STEEL

CROWN-WELD® POLES

PS3S10C(a)BZ
10' (3.0 m) x 3" (76 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.50" (13 mm) thick
Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 250 lbs. (114 Kg)
Approximate shipping weight – 58 lbs. (26 Kg)

PS3S15C(a)BZ
15' (4.6 m) x 3" (76 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 250 lbs. (114 Kg)
Approximate shipping weight – 82 lbs. (37 Kg)

PS3S20C(a)BZ
20' (6.1 m) x 3" (76 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 250 lbs. (114 Kg)
Approximate shipping weight – 119 lbs. (54 Kg)

PS4S10C(a)BZ
10' (3.0 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 350 lbs. (159 Kg)
Approximate shipping weight – 78 lbs. (35 Kg)

PS4S12C(a)BZ
12' (3.7 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 300 lbs. (136 Kg)
Approximate shipping weight – 99 lbs. (45 Kg)

PS4S15C(a)BZ
15' (4.6 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 350 lbs. (159 Kg)
Approximate shipping weight – 119 lbs. (54 Kg)

PS4S17C(a)BZ
17' (5.2 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 300 lbs. (136 Kg)
Approximate shipping weight – 131 lbs. (59 Kg)

PS4S20C(a)BZ
20' (6.1 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 350 lbs. (159 Kg)
Approximate shipping weight – 150 lbs. (68 Kg)

PS4S22C(a)BZ
22' (6.7 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 310 lbs. (141 Kg)
Approximate shipping weight – 163 lbs. (74 Kg)

PS4S22S(a)BZ
22' (6.7 m) x 4" (102 mm)
Wall thickness – 0.188" (5 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 310 lbs. (141 Kg)
Approximate shipping weight – 225 lbs. (102 Kg)

PS4S25C(a)BZ
25' (7.6 m) x 4" (102 mm)
Wall thickness – 0.125" (5 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 350 lbs. (159 Kg)
Approximate shipping weight – 182 lbs. (83 Kg)

PS4S25S(a)BZ
25' (7.6 m) x 4" (102 mm)
Wall thickness – 0.188" (5 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 350 lbs. (159 Kg)
Approximate shipping weight – 252 lbs. (114 Kg)

PS4S27R(a)BZ
27' (8.2 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 280 lbs. (127 Kg)
Approximate shipping weight – 232 lbs. (105 Kg)

PS4S30R(a)BZ
30' (9.1 m) x 4" (102 mm)
Wall thickness – 0.125" (3 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 315 lbs. (143 Kg)
Approximate shipping weight – 301 lbs. (137 Kg)

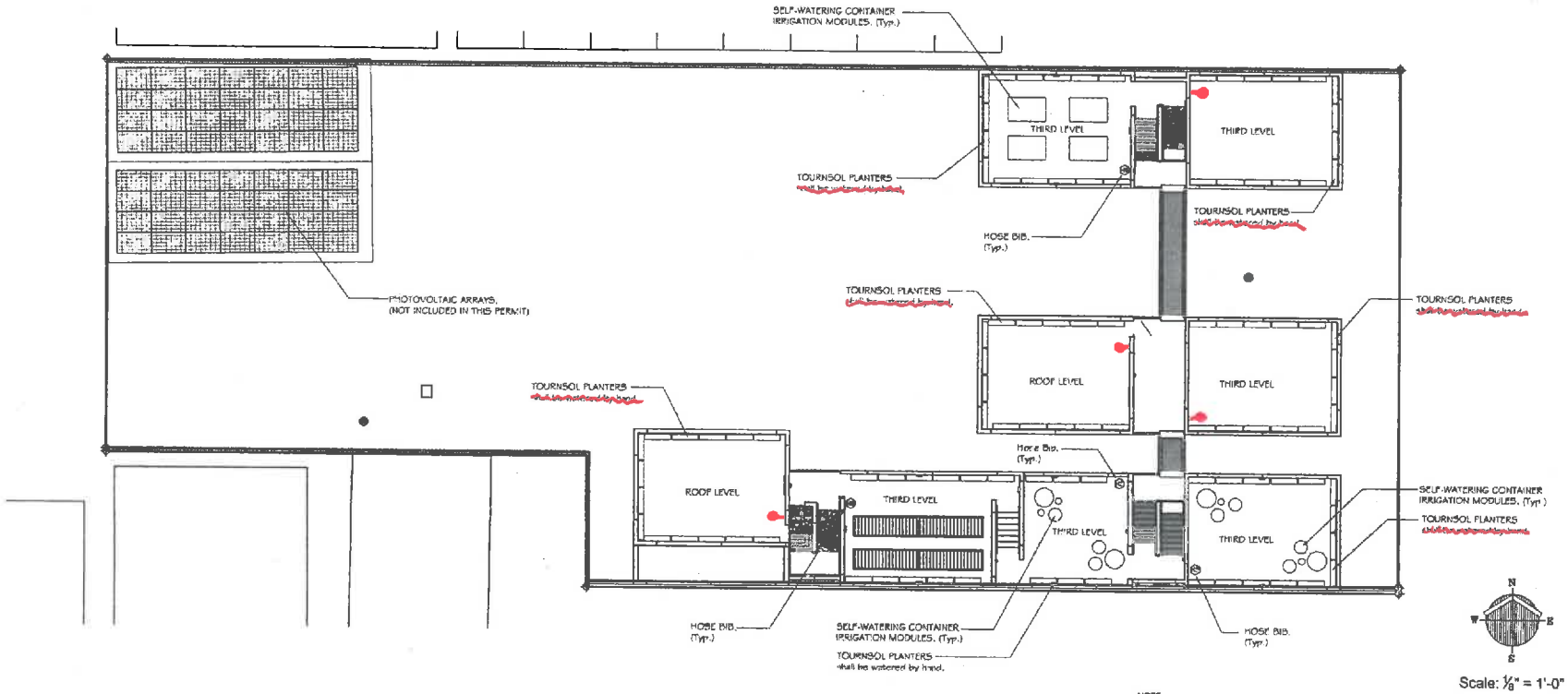
PS4S30H(a)BZ
30' (9.1 m) x 4" (102 mm)
Wall thickness – 0.188" (5 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)
Bolt circle diameter – 10" (254 mm) 9.3" – 11"
(235 mm – 279 mm)
Maximum fixture weight – 340 lbs. (155 Kg)
Approximate shipping weight – 337 lbs. (153 Kg)

PS5S25S(a)BZ
25' (7.6 m) x 5" (127 mm)
Wall thickness – 0.188" (5 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 1"-8 x 36" (914 mm) + 4" (102 mm)
Bolt circle diameter – 10" (254 mm) 9.7" – 11.3"
(248 mm – 287 mm)
Maximum fixture weight – 450 lbs. (204 Kg)
Approximate shipping weight – 320 lbs. (145 Kg)

PS5S30S(a)BZ
30' (9.1 m) x 5" (127 mm)
Wall thickness – 0.188" (5 mm)
Base plate – 10" (254 mm) square x 0.750" (19 mm) thick
Anchor bolts – 1"-8 x 36" (914 mm) + 4" (102 mm)
Bolt circle diameter – 10" (254 mm) 9.7" – 11.3"
(248 mm – 287 mm)
Maximum fixture weight – 375 lbs. (170 Kg)
Approximate shipping weight – 379 lbs. (172 Kg)

PS6S30S(a)BZ
30' (9.1 m) x 6" (152 mm)
Wall thickness – 0.188" (5 mm)
Base plate – 12" (305 mm) square x 1" (25 mm) thick
Anchor bolts – 1"-8 x 36" (914 mm) + 4" (102 mm)
Bolt circle diameter – 11.5" (292 mm) 11.3" – 12.8"
(286 mm – 324 mm)
Maximum fixture weight – 525 lbs. (238 Kg)
Approximate shipping weight – 457 lbs. (207 Kg)

RUUD LIGHTING®
9201 Washington Avenue Racine, Wisconsin 53406-3772 USA PHONE (262) 886-1900 FAX (262) 884-3309



Scale: ⅛" = 1'-0"

NOTE

VERIFY HOSE BIB LOCATIONS PRIOR TO INSTALLATION.

Live Roof Standard Trays:
Soil Approx. 4½" deep
Module Size: 1'x 2' x 3¼"
Saturated Weight: 27-29 lbs / sf saturated vegetated.

Maximum allowable dead weight per structural: 80 psf

Or Additional Hose Bib

Addendum # 2
5/29/2014

DAVID R. BLACK & ASSOCIATES

Project
Santa Barbara Center for Art, Science, & Technology
513 Garden Street
Santa Barbara, CA 93101

Sheet Title
Irrigation Plan
Third Floor & Roof Level

Revisions

No.	Date	Revision
	04/21/15	Revision 1

Date
04/10/14 Bid Set

Scale
⅛" = 1'-0"

Drawn
NJ

Job

Sheet Number
L-4

4 of 6

LICENSED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA