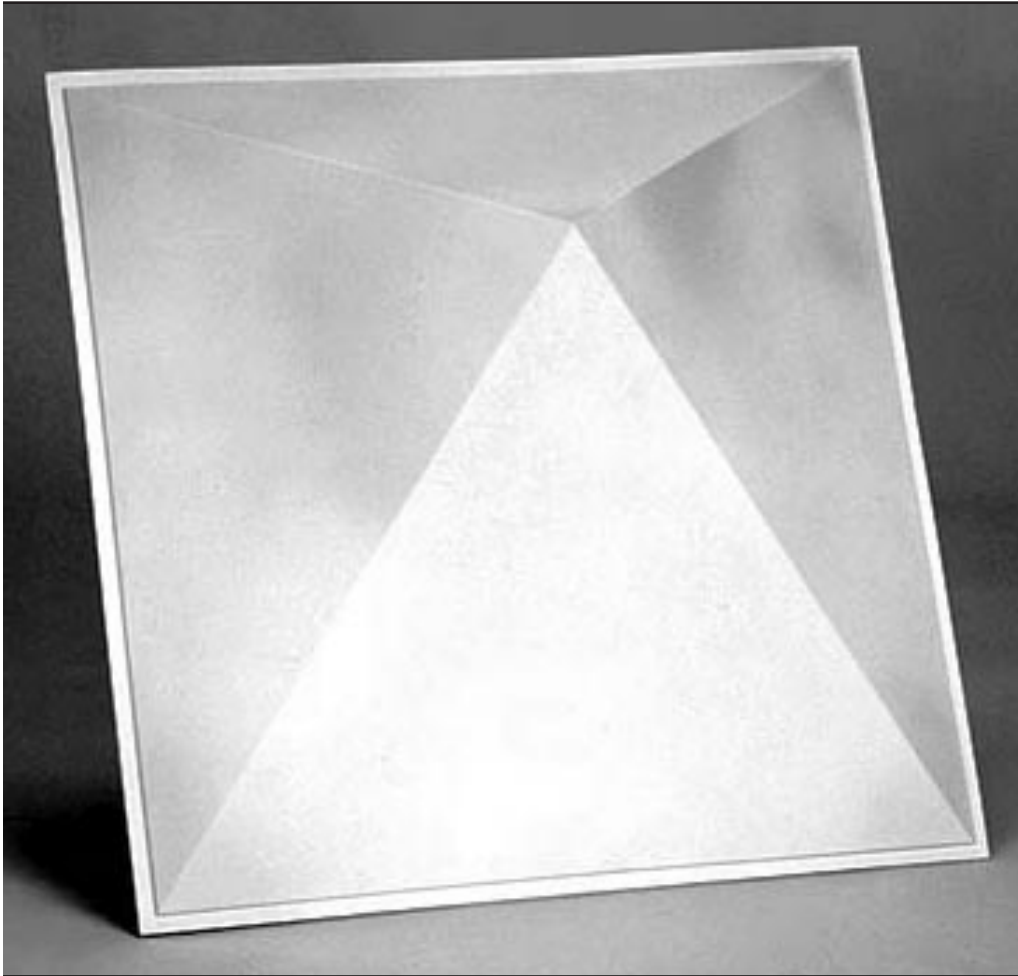


# Golden Pyramid™

---



*The Sound of Innovation*

# Golden Pyramid™

---

## Standard Unit Construction

Fiberglass reinforced gypsum

Painted white

2' height x 2' width nominal (1' 11-3/4" x 1' 11-3/4") x 8-1/4" deep

Regular Dimensions (1' 11" x 1' 11") x 8-1/8" deep

## Product Options\*, \*\*

*Finish Selection*

White

Custom selection

## Option Sheet

*Note:*

*All dimensions are allowed a tolerance of  $\pm 1/16$ " due to material shrinkage and variations.*

*\* Most options merit an increase or, in some cases, a decrease in pricing compared to the standard unit.*

*\*\* Due to material availability, RPG® reserves the right to change options at any time. Therefore, any special options—whether listed or not—must be confirmed prior to submittal of P.O. and acceptance verified by RPG® Diffusor Systems, Inc.*



*The Sound of Innovation*

## Pyramidal Diffusor

## CSI Specifications

- A** The Pyramidal Diffusor shall be the Golden Pyramid™ as manufactured by RPG® Diffusor Systems, Inc., Upper Marlboro, MD 20774. Tel: 301-249-0044, Fax: 301-249-3912.
- B** The Pyramidal Diffusor shall be fabricated from Fiberglass Reinforced Gypsum.
- C** The Pyramidal Diffusor shall be pyramidal in shape and symmetric along one axis and asymmetric along the other axis conforming to proportions as defined by the Golden Mean.
- D** The Pyramidal Diffusor shall be free from excessive resonance and provide diffusion in the far field based on the specular reflection principle. The diffusor may be rotated to achieve a variety of patterns that will provide a highly effective scattering surface.
- E** Absorption Coefficients and Noise Reduction Coefficient for the product shall be measured by an independent, accredited NVLAP facility according to the test methods as defined by ASTM C 423 and ASTM E 795. Random incidence Absorption Coefficients for the product in an E-400 mounting shall be as follows:

125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.82	1.04	1.04	1.04	1.04	1.04	1.00

- F** Diffusion Coefficients for the product shall be measured in accordance with the recommendations of the Audio Engineering Society Working Group SC-04-02 boundary measurement technique. The directional diffusion coefficient is given by the standard deviation of the 1/3-octave polar response, for a given angle of incidence, and normalized by the response of a flat panel of similar size. The average incidence diffusion coefficients determined at 5° intervals between ± 85° are listed below at octave-band centers for the three unique orientations. The mean and standard deviation (SD) of the 1/3-octave-band coefficients are also tabulated.

125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
0.82	1.04	1.04	1.04	1.04	1.04	1.00

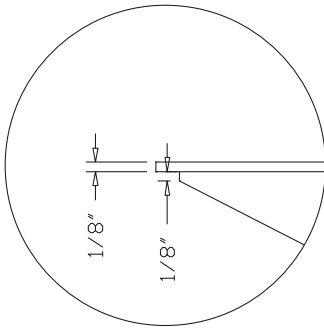
- G** Flame Spread and Smoke Developed shall be tested by an independent, accredited NVLAP facility according to the test methods as defined by ASTM E 84 and NFPA 255. The Pyramidal Diffusor shall have a composite Flame Spread Rating of less than 25 and a Smoke Development of less than 450.
- H** The Pyramidal Diffusor shall be supplied in a painted, ceiling white finish.
- I** The overall dimensions shall be 23-3/4"(H) x 23-3/4"(W) x 8-1/4"(D) and weigh no more than 6 pounds.



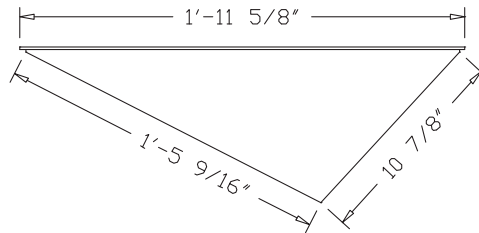
*The Sound of Innovation*

# Golden Pyramid™

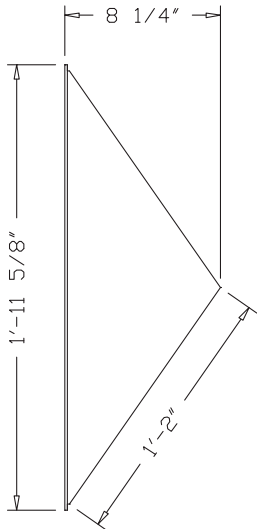
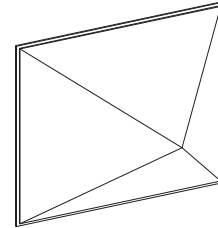
2' x 2' Cutsheet



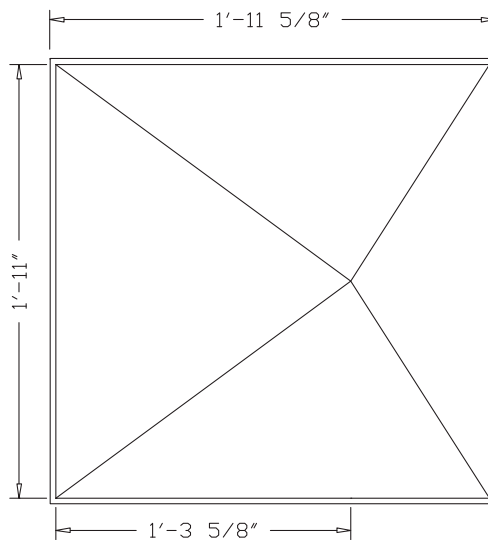
EDGE DETAIL (SCALED UP 4X'S)



TOP VIEW



LEFT SIDE



FRONT VIEW

**Project:**

**Specifier:**

**Drawing Number:**

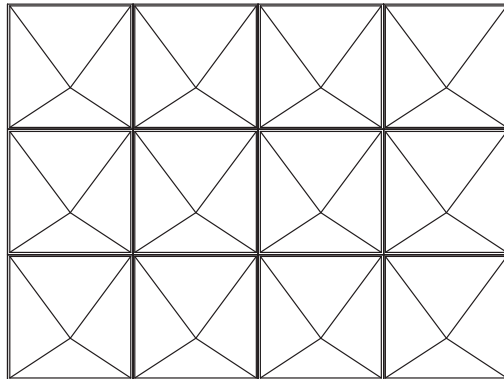
**Date:**

Tolerance:  $\pm 1/16"$

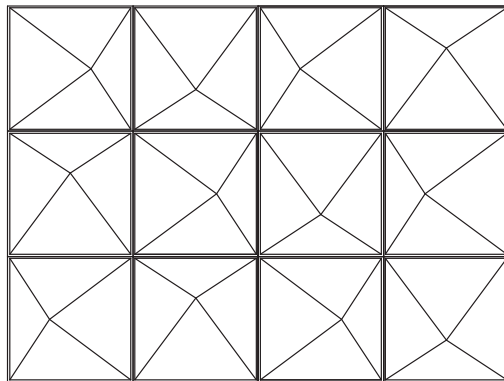


*The Sound of Innovation*

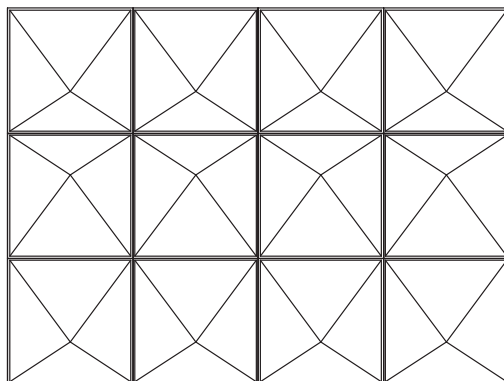




UNITS ROTATED IN ONE DIRECTION



UNITS ROTATED 90DEG. RELATIVE TO ONE ANOTHER



UNITS MOUNTED IN PAIRS RELATIVE TO ONE ANOTHER

*Reflected Ceiling*

**Project:**

**Specifier:**

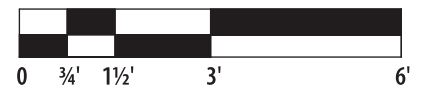
**Drawing Number:**

**Date:**

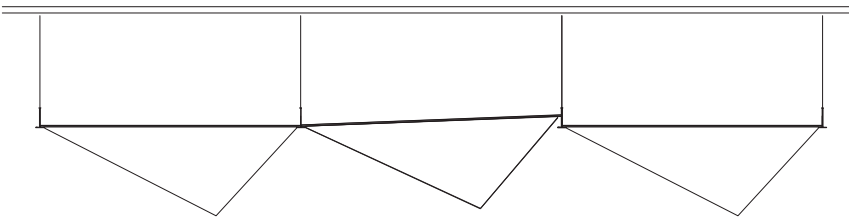
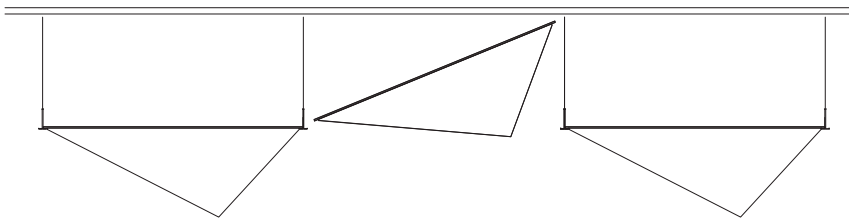
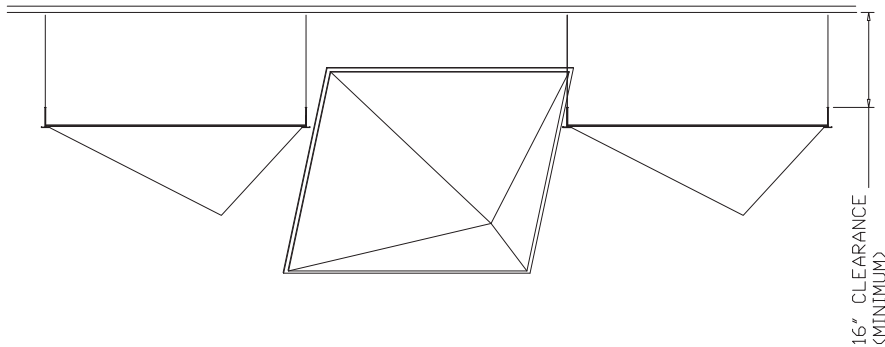
*All dimensions should be field verified prior to installation.*



*The Sound of Innovation*



# Golden Pyramid™



## *T-Bar Tilt and Drop*

**Project:**

**Specifier:**

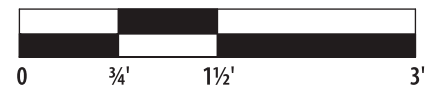
**Drawing Number:**

**Date:**

*All dimensions should be field verified prior to installation.*

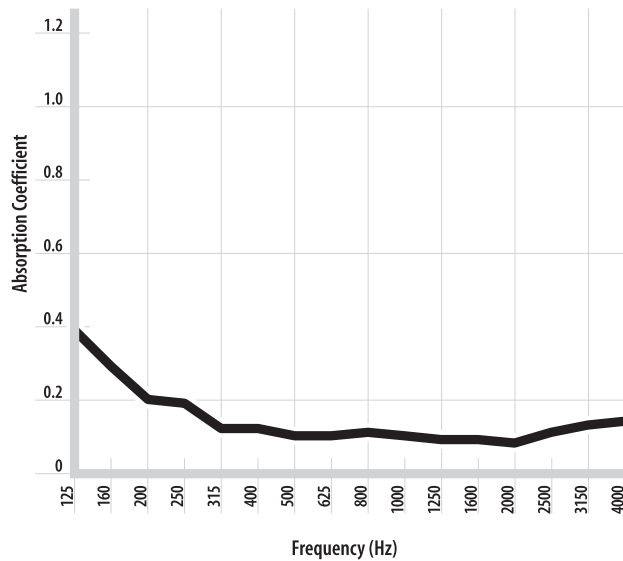


*The Sound of Innovation*



## Absorption Coefficients

*Measured According to ASTM C423 at Riverbank  
Acoustical Laboratories (RAL-A93-218).*

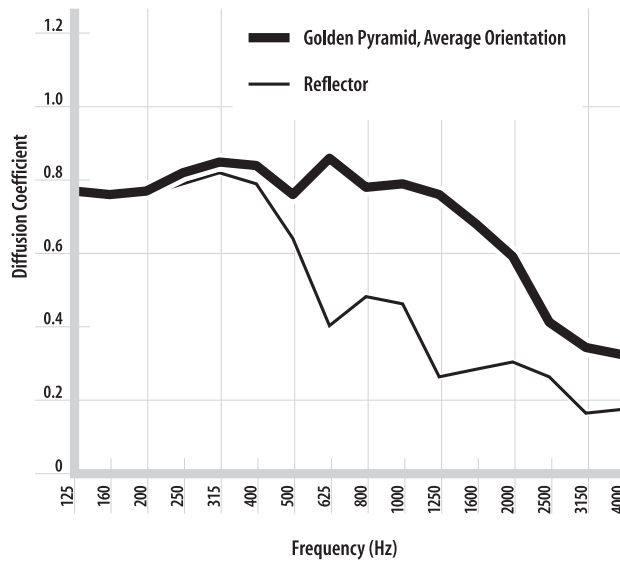


Hz	Absorption Coefficient
125	0.39
160	0.29
200	0.20
250	0.19
315	0.12
400	0.12
500	0.10
625	0.10
800	0.11
1000	0.10
1250	0.09
1600	0.09
2000	0.08
2500	0.11
3150	0.13
4000	0.14



*The Sound of Innovation*

## Diffusion Coefficients



Hz	Golden Pyramid™	Reflector
125	0.76	0.75
160	0.75	0.74
200	0.76	0.75
250	0.81	0.78
315	0.84	0.81
400	0.83	0.78
500	0.75	0.63
625	0.85	0.39
800	0.77	0.47
1000	0.78	0.45
1250	0.75	0.25
1600	0.67	0.27
2000	0.58	0.29
2500	0.40	0.25
3150	0.33	0.15
4000	0.31	0.16



*The Sound of Innovation*