PYRACELL

SAFETY ASSURANCE SECURITY



Suicide Deterrent Security Grilles

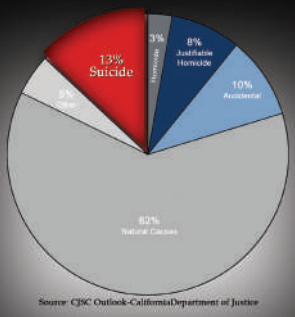
Maximum Airflow Minimum Worry





Inmate Suicide Prevention Facts

1. In 2003 suicides accounted for the second most common cause of inmate deaths (after natural causes): See graph below*



2. For juveniles, the number of suicides nationwide jumps to 46.5% in the years ranging from 2002-2005**

3. It is estimated from the years 2000 - 2005 that an average of 45 out 100,000 inmates nationwide will die from their own hands**

4. A 2005 study of California alone showed that 80% of suicide deaths were a result of hanging. The most common technique was use of an air vent to loop a noose***





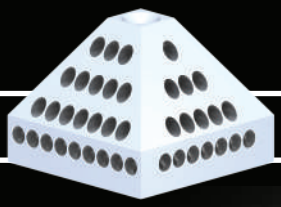


Sources:

*CJSC Outlook-Criminal Justice Statistics Center-California Dept. of Justice Division of California Justice Information Services Bureau of Criminal Information and Analysis

**US Dept. of Justice-Office of Justice programs-Bureau of Justice Statistics

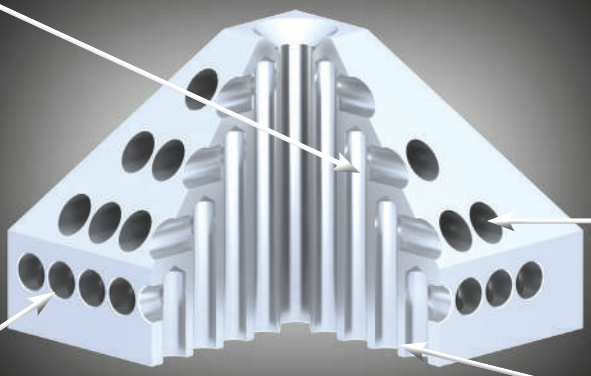
***Bureau of Prisons-Department of Justice



Industry Changing Technology

US Patent Pending

All holes feature a unique bypass prevention design that protects against the looping of materials



7/32” holes to improve air performance

All holes are drilled smooth to reduce noise generation

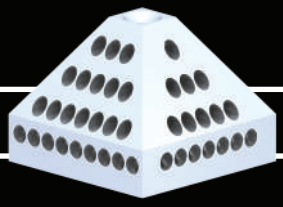
3/16” holes to comply with current Title 24 standard



Polycarbonate

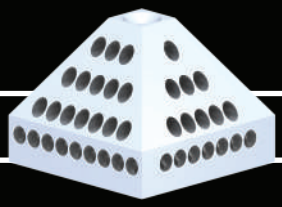


Aluminum



No Comparison

	Meets or exceeds California Title 24 and National Institute of Corrections standards	Effectively reduces ability to use grille to fasten a noose	Eliminates ability to use grille to store & hide illegal contraband	Flush mounting in cell wall	Provides ample air supply to cell	Material options including aluminum and acryllic (cost savings)	Design leaves no sharp edges for clogging	Removable modules for cleaning	Standard duct sizes available
PYRACELL SAFETY ASSURANCE SECURITY	✓	✓	✓	✓	✓	✓	✓	✓	✓
VS									
Leading Competitor	✓	✓	✓	✓	✓				



By The Numbers

Size 6x6									
Face Velocity	88	221	309	397	485	618	706	794	882
Velocity Pressure	0.000	0.001	0.001	0.002	0.003	0.005	0.006	0.008	0.010
Total Pressure	0.007	0.030	0.067	0.119	0.185	0.269	0.364	0.475	0.599
CFM	10	25	35	45	55	70	80	90	100
Throw	1-1-1	1-2-3	2-3-5	3-4-6	3-5-8	4-6-10	5-7-11	5-8-12	6-9-14
NC	-	-	-	-	16	22	25	28	31
Size 9x9									
Face Velocity	102	204	306	408	490	592	694	796	898
Velocity Pressure	0.000	0.000	0.001	0.001	0.002	0.003	0.004	0.005	0.006
Total Pressure	0.008	0.031	0.069	0.122	0.190	0.274	0.373	0.488	0.617
CFM	25	50	75	100	120	145	170	195	220
Throw	1-1-2	1-2-4	2-3-5	3-4-7	4-5-8	4-6-10	5-7-12	6-9-14	6-10-16
NC	-	-	-	-	-	19	23	27	30
Size 12x12									
Face Velocity	103	195	299	402	506	598	701	805	897
Velocity Pressure	0.000	0.000	0.001	0.002	0.003	0.004	0.006	0.008	0.009
Total Pressure	0.008	0.032	0.072	0.129	0.201	0.289	0.393	0.514	0.650
CFM	45	85	130	175	220	260	305	350	390
Throw	1-2-3	3-4-6	4-6-9	5-8-13	7-10-16	8-12-19	9-14-22	11-16-25	12-18-28
NC	-	-	-	17	23	27	31	35	38

Dimensions in inches

Performance Notes:

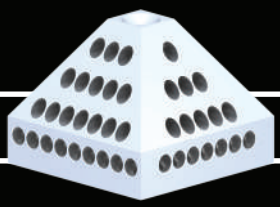
1. Tests conducted in accordance with ANSI/ASHRAE Standard 70-1991
2. Pressures are in inches of water (in. WG)
3. Data is based on supply performance
4. NC values are based on room absorption of 10dB
5. Throw values are shown in feet at terminal velocities of 150, 100 and 50 feet per minute at isotermal conditions
6. Dash (-) in the space indicates NC values of less than 10

**Disclaimer*

The Pyracell is a U.S. Patented design that meets and exceeds the current industry design standards for security products. It is designed to help reduce the risk of occupants from inflicting harm on themselves.

The product is designed to limit the plausibility of someone threading material through the perforated opening and forming a loop.

MET California Group LLC, does not make the claim that the Pyracell is "suicide proof."



Advancing Technology

The tremendous responsibility involved in assuming custody of another life can be an overwhelming duty. The men and women who run America's correctional facilities have chosen to accept the role not only of custodian, but of protector. Despite their best efforts, some in their care will choose to harm themselves or others. Today, MET California Group, Engineering Solution is proud to announce the essential innovation that will dramatically reduce one method of inflicting harm.

For too long and often with disastrous results, correctional facilities have been forced to accept the bare minimum in security grille standards. This standard only requires that all holes be 3/16 inches in diameter. As demonstrated in fig. 1, this standard has literally left too many "loop" holes that can be used by individuals who are at their most vulnerable.

Our U.S. patented system has virtually eliminated the possibility of threading any item through the grille orifices. Nor can anything be hidden inside the grille that could be used to cause harm. Additionally, The Pyracell system will not impede the airflow passing through it, making it the most advanced security grille on the market.

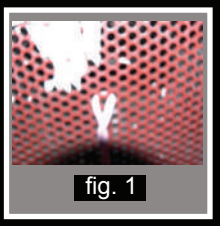
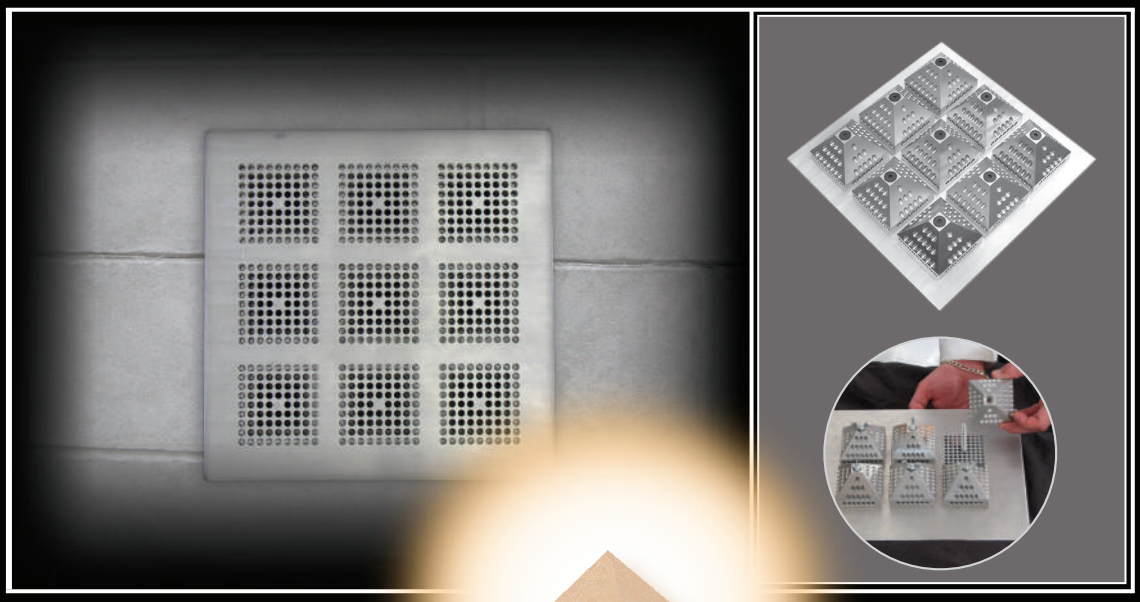


fig. 1



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Pyracell

Engineering Solution

From

MET California Group LLC

Phone: (916) 704-1147
www.pyracell.com
Email: info@pyracell.com