

FIRE CODE DATA

POLYSTYRENE

UL LABEL #94HB

Flame Spread	165-190
Fuel Contributed	95
Smoke Developed	Over 500

ACRYLIC

UL LABEL #94HB

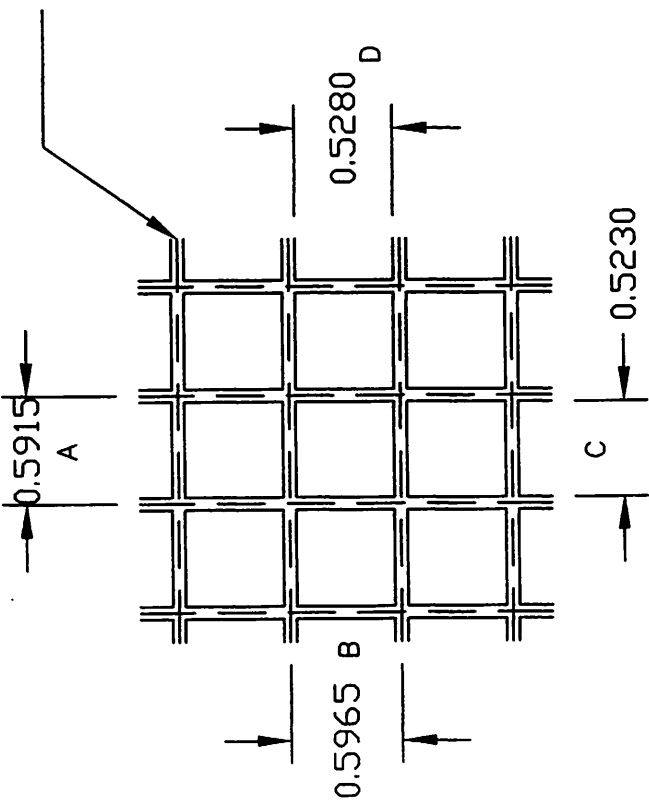
Flame Spread	165-190
Fuel Contributed	95-120
Smoke Developed	Over 500
Classification under UBC + NFPA	Class 3 or C

NOTES:

1. Based on tests done by United States Testing Co. (City of Commerce, CA), Class "A"
Fire rated materials must meet: flame spread of under 25 and smoke developed of under 450.
2. The difference between styrene and acrylic when they burn is: Styrene burns with a black toxic smoke. Acrylic burns with a clear or white non-toxic smoke.
3. For elevators, we do not recommend using acrylic or styrene materials due to fire codes. The use of aluminum or flame retardant material is advised.

13834 13885

REVISIONS			
LTR	DESCRIPTION	DATE	DRAWN / APPROVED



CENTER LINE OF CELL WALLS MEASURED AT THE BACK OF THE LOUVER (THICKEST WALL SECTION). THIS IMAGINARY SECTION IS REPEATED ACROSS THE SURFACE OF THE LOUVER. ONE CELL "SPACE" IS MEASURED AND EXTRAPOLATED.

LOUVER FREE SPACE PERCENTAGE =

$$\frac{\text{"C" X "D"}}{\text{"A" X "B"}}$$

$$.5230 \times .5280 = .276 \text{ SQ. IN.}$$

$$.5915 \times .5965 = .353 \text{ SQ. IN.}$$

$$\frac{.276 \text{ SQ. IN.}}{.353 \text{ SQ. IN.}} = 78.2\%$$
 FREE SPACE (APPROX. 78%)

THIS MEASURE IS APPROXIMATE & SUBJECT TO CHANGE. THE SAMPLE MEASURED ON THIS DATE MAY DIFFER SLIGHTLY FROM ANOTHER SAMPLE MEASURED ON ANOTHER DATE. ALSO, THE EXACT FREE SPACE OF ANY GIVEN LOUVER WILL VARY SLIGHTLY DUE TO FABRICATION DETAILS AND OTHER PROPERTIES.