SPECIFICATION FOR MLM-125 MEDIA

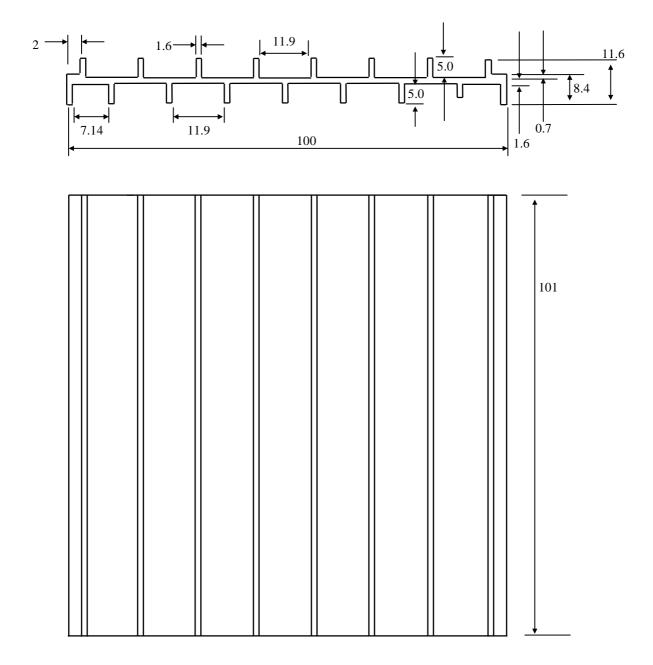
I. PHYSICO-CHEMICAL PROPERTIES OF CHEMICAL PORCELAIN USED TO MANUFACTURE MLM

IA.	Chemical Composition	% by Weight
	SiO_2	65 – 75
	Al_2O_3	18 – 23
	Fe ₂ O ₃	≤ 1.5
	$K_2O + Na_2O$	≤4
IB.	Physical Properties	
	Specific Gravity	2.2 - 2.5
	Maximum Working Temperature	2,150 °F
	Heat Capacity	0.22 BTU/lb °F
	Cold Crushing Strength	8,600 lbs/ft ²

II. DIMENSIONAL TOLERANCES OF INDIVIDUAL LAYERS

IIA. Layer Dimensional Tolerances:

Length x Width x Height = $100 \pm 1.0 \times 100 \pm 1.0 \times 11.6 \pm 0.2$ (mm)



IIB. Layer Dimensions (see diagram b	below)
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IIC.	Wall Thickness	1.6± 0.15 (mm)
IID.	Parallelism:*	< 2.0mm
IIE.	Perpendicularity:	90 ± 1.5 $^\circ$

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*Deviation form being perfectly flat

III. DIMENSIONAL TOLERANCES OF ASSEMBLED MODULES

- **IIIA.** Over-all Dimensions: 12" x 12" x 4"
- **IIIB.** Over-all Dimensional Tolerances:

Length x Width x Height = $305 \pm 3.0 \times 305 \pm 3.0 \times 101 \pm 1.5$ (mm)

IIIC. Parallelism:

< 3.0 mm between two 12" x 12" surfaces

< 2mm between two 12" x 4" surfaces

IIID. Perpendicularity:

 $90 \pm 1^{\circ}$ between any two adjacent surfaces perpendicular to each other

IIIE.	Fin Height and Thickness	5.0± 0.15 (mm) – Height
		1.6± 0.15 (mm) – Thickness

IIIF. Distance between Adjacent Layers ("Top Side" to "Top Side") shall be between 8.2 mm and 8.6 mm. Spacing between any two adjacent plates may be as much as 10 mm, as long as the average remains within the specified range. The plate count shall be 30 to 34 plates per 305mm stack, or 90 to 102 plates per module.

IV. WEIGHT VARIATION

16.5lbs to 19.4lbs per module

V. VOID FRACTION

58 % to 68 %

VI. CRUSHING STRENGTH

 $8,600 \text{ lbs/ft}^2$

VII. VISUAL INSPECTION

~ Cracks in layers: less than 5 per module

~ Cracked or missing fins: not to exceed three (3) per module

~ The adhesive will be applied evenly and completely without any cracks, crevices or gaps. Excessive application of adhesives must be avoided.

VIII. QUALITY ASSURANCE TESTING PROCEDURE

 \sim All modules shall be visually inspected to ensure that the requirements as detailed above, are met.

~ Two (2) modules from each crate shall be tested for Dimensional Tolerance, Weight Variation and Plate Count.

XI. RAMIFICATIONS

 \sim If more than twenty (20) of the fifty (50) samples tested fail any or all of the tests outlined, then the entire load of material will be rejected. All costs associated with the disposal of the rejected load will be the supplier's responsibility.

~ If less than twenty (20) fail, then the price of the load will be reduced in direct relationship to the percentage of failures. For example, if five (5) of the fifty (50) fail, the price reduction would be 10%.

 \sim Breakage during shipment shall be limited to 2%. The ramifications listed apply only to the remaining modules.

XII. ENVIRONMENTAL ASPECTS

Due to its physico-chemical properties, MLM is no hazardous waste and thus can be safely disposed of without any threat to the environment.