

# SPECIFICATION FOR LANTECOMB H MEDIA

## I. PHYSICO-CHEMICAL PROPERTIES OF MATERIAL USED TO MANUFACTURE LANTECOMB

### IA. Chemical Composition

	% by weight
SiO <sub>2</sub>	55.0 – 62.0
Al <sub>2</sub> O <sub>3</sub>	38.0 – 45.0
MgO	2.0 – 6.0
K <sub>2</sub> O + Na <sub>2</sub> O + CaO + TiO <sub>2</sub>	≤ 4.0
Fe <sub>2</sub> O <sub>3</sub>	≤ 1.5

### IB. Physical Properties

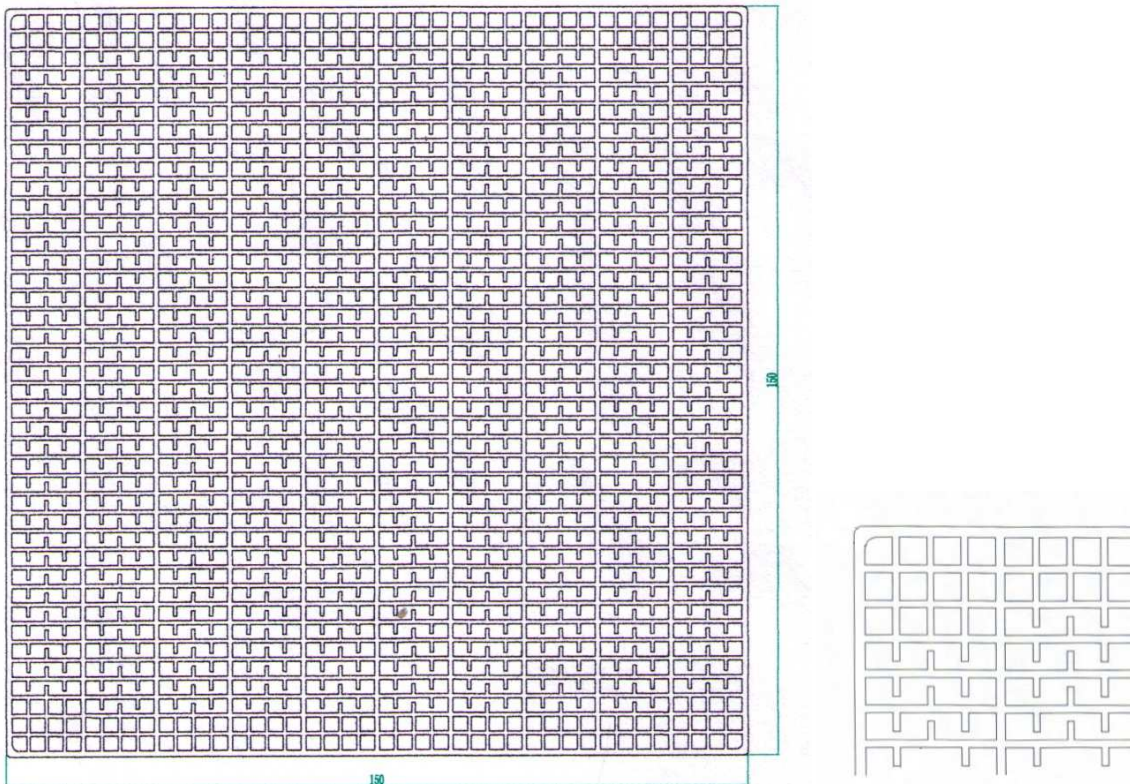
Density	2.35 - 2.55 g/cm <sup>3</sup>
Average Thermal Expansion (20 – 1000 °C)	3.5 – 6.0 10 <sup>-6</sup> /°C
Heat Capacity	900 – 1100 J/kg K
Thermal Conductivity (20-100°C)	1.5 – 2.5 W/m K
Thermal Shock Resistance	≥ 350 K
Maximum Operating Temperature	1200 °C
Module Weight	2.4 – 2.8 kg (5.28 – 6.16 lb)

## II. DIMENSIONAL TOLERANCES OF INDIVIDUAL BLOCK

### IIA. Block Dimensional Tolerances:

Length x Width x Height =  $150 \pm 2.0$  x  $150 \pm 2.0$  x  $150 \pm 2.0$  (mm)

### IIB. Cross-Sectional Dimensions (see diagram below)



## III. VOID FRACTION

66.1 % ~ 71.0 %