DFL



## 1 5 Vermiculite hoard

Items		Partition Sheet	Ceiling Sheet	Compound Fire Resistent Sheet
Size (mm)		2400x1200x10-120		
		2400x1200x10	1600x800x8	1900x850x43
Bulk Density(kg/m³)		700-800	600-700	450-600
Refractoriness	τ	1200	1200	1200
Absorb-Sound Rate		35	36	60
Tensile Strength	kg/cm²	60	50	200
Landscape Orientation		12	10	100
Bending Strength	kg/cm²	70	60	100
Heat Conduction Rate		0. 028	0. 025	0. 02
Water Content	5	0. 2	0.2	0. 2
Acid-Resistence (Under H <sub>2</sub> SO <sub>2</sub> x25℃x100h)	10%	no flexible in surface	no flexible in surface	no flexible in surface
Machining Performance		saw, nail, plane, rivet, drill	saw, nail, plane, rivet, drill	saw, nail, plane, rivet, drill

## VERMICHI ITE BOARD

Vermiculite.with layer construction and interlaminar water like mica mainly has 2 types:brown and white.It has much more higer melting point-can be 1270-1370℃ .Because of above particularity, vermiculite mine has much more value for exploitation. Also vermiculite has the particularity of fire-resistence, heatinsulation.sound-absorbability.non-toxic.huge linear expansion rate and tiny heat conduction rate etc.It begins expanding when heated over 200°C and becomes the worm-like shape. It can reach the maximum volume(15-25 times bigger)when it is heated reapidly to 800°C. This forms the material with low density(80-130kg/m3),excellent insulation properties and good absorption and ion exchange capacity. With the composite of bond and the surface macromolecules, vermiculite can be made into the light multifunctional vermiculite board. The raw vermiculite can be made into vermiculite board directly only after being broken. to be used for decoration generally. While the vermiculite board which is made from exfoliated vermiculite has much more value on light weight, sound-absorbing, and wide application such as the fire-resistence, heat-insulation.

