

"TIAN SHENG XPS" extruded board is a hard type extruded polystyrene thermal insulating product made of polystyrene combining with additives using extrusion method. The board possesses a continuous and even external layer and completely closed honey-comb cells structure achieved during the continuous extrusion process. The board is an excellent thermal insulating material with high compression strength, low coefficient of thermal conductivity, low water absorption rate, low vapour permeance, long life because of its uniform wall thickness of linked honey-comb structure and without any gap. These characteristics are the quality of an excellent thermal insulating material.

The excellent performances of thermal insulation, high compression, water proofing make the board to be superior to conventional thermal insulating material and suitable for use in new buildings or retrofit works.

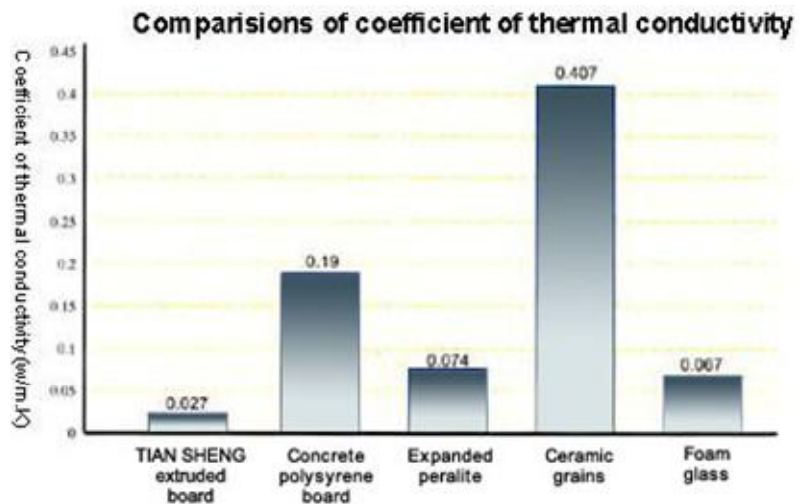
PROPERTIES	UNIT	STANDARD	Type and specification			
			TS 250	TS 350	TS 450	TS 500
Density	kg/m <sup>3</sup>	ASTM 1622	32-36	37-41	42-46	47-50
Compression Strength	kpa	ASTM 1621	≥250	≥350	≥450	≥500
Water Absorption	% (v/v)	ASTM C272	<0.1	<0.1	<0.1	<0.1
Thermal Conductivity	W/mK <sup>*</sup>	ASTM C518	≤0.028	≤0.028	≤0.027	≤0.027
Flammability	Class	UL94	94HB	94HB	94HB	94HB
Dimensional Stability	%		≤2.0	≤2.0	≤2.0	≤2.0
Length	mm		1200, 1800, 2400			
Dimension Width	mm		600, 900, 1200			
Thickness	mm		20, 25, 30, 40, 50, 60, 75, 100			

[Please click to enlarge](#)

### Features of XPS

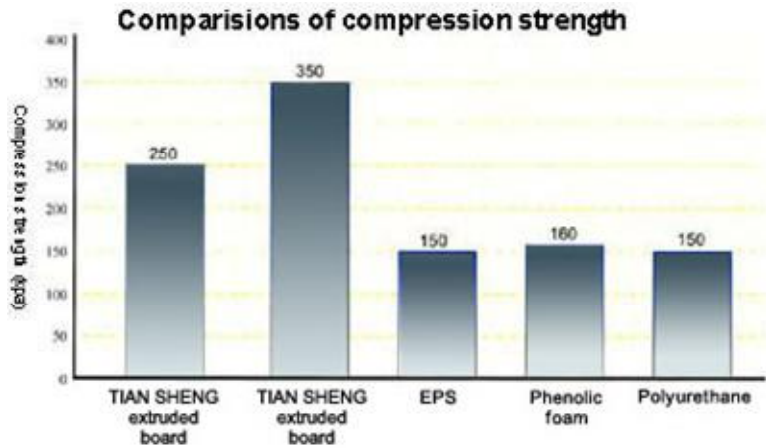
#### Low Coefficient of Thermal Conductivity

Tian Sheng extruded board can be as low as 0.027.



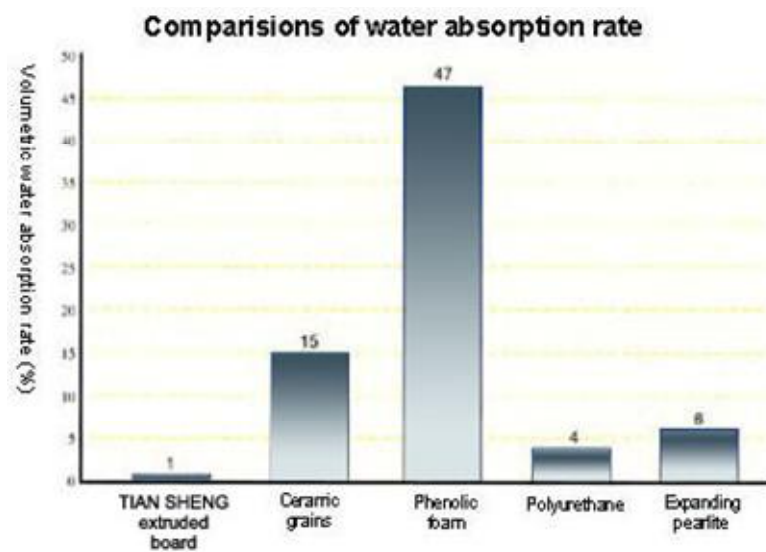
### High Compression Strength

Tian Sheng extruded board is a light weight, high compression strength board, and can reach above 350kpa under low density condition. It can more than satisfy many design requirements with compression strength of 150-500kpa.



### Low Water Absorption Rate

Tian Sheng extruded board with a water absorption rate of less than or equal to 0.1% is smaller than other hard-type thermal insulating materials, and can maintain its insulation performance in contact with moisture over long period of time when comparing with materials such as polyurethane or concrete polystrol boards.



### High Endurance

XPS's chemical property to be stable, not harmful, also cannot occur decomposes and gets moldy and spoil, has the extremely good anticorrosive performance.

XPS's entire production process to manifest the environmental protection idea, has used the environmental protection raw material, cannot produce the virulent noxious gas, produces the waste material also may recycle processing to use again, is environmental protection product which may recycle.

