

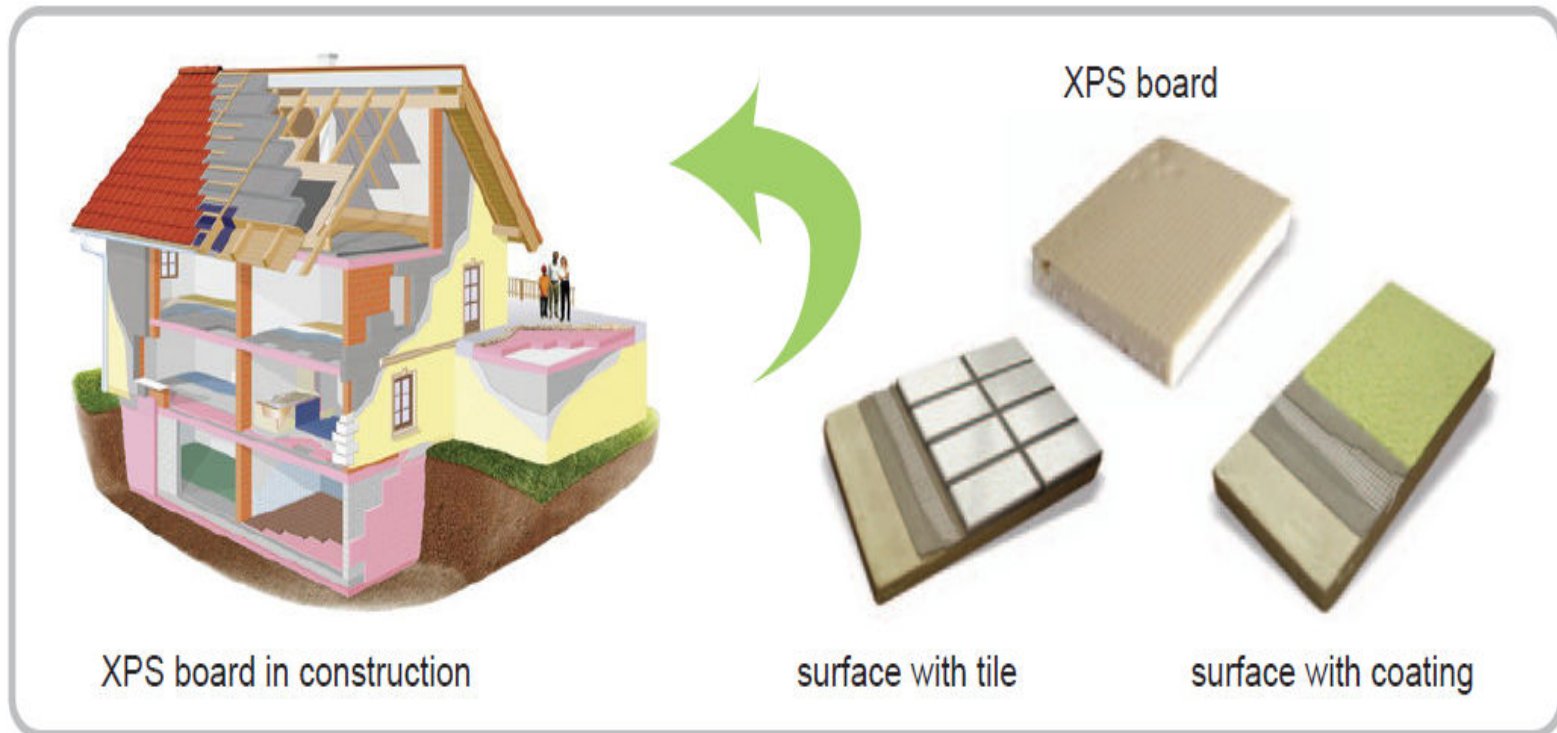


BROTHERS INDUSTRIALS INC. ID.: 01895G

38844 Steeple Chase, Apt.: 27101 Farmington Hills, MI. 48331 – USA Tel.0012487945080 Fax.0012489739443

www.brothersindustrialsinc.com , infobrothersusa@aol.com

XPS BOARD IN CONSTRUCTION PRODUCTION LINE:





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Comparison of Main Insulating Materials

Index \ Product		XPS	EPS	PU	Rock wool
Thermal conductivity [w/(m·K)]	At the beginning	0.030	0.041	0.02	0.044
	After three years	≤0.04	≥0.06	≥0.06	≥0.06
Compressive strength (Kpa)	When dry	350	80	165	
	After watering	350	60	110	
Tensile strength (Kpa/m ²)		≥300	≥65	—	—
Density (kg/m ³)		32~39	25~28	25~30	150~200
Water absorption (%)(V/V)	At the beginning	≤0.76	≤8	≤6	≤5
	After three years	≤1	≥40	≥40	≥40
Thickness (mm)		25	38	21	—
Volume stability		good	good	good	good
Combustibility		B1	B2	A	noncombustible
Direct use		easy	easy	easy	difficult
Raw material		100% new material ~ 100% recycle material	100% new material	100% new material	100% new material
Cost		low	middle	high	middle
Production process		easy	common	complex	complex, contaminative