

Factors	Extruded Polystyrene Insulation (XPS)	Brick Jelly Weathering Course (BJ)
Heat Penetration	No heat transfer via the roof slab into indoors	Heat transfer delayed, not stopped.
Heat Absorption	No absorption	Absorbs heat all day & radiates throughout the night
Water absorption	Less than 1% by volume	Bricks are porous, it absorbs all water & acts as a reservoir above roof slab
Waterproofing protection	XPS insulates WP thereby enhancing its durability	Just contains a few WP properties, no specific WP material applied
Product weight	1.6 kgs per square meter	250 kgs per square meter dead weight (for a 5" treatment approx)
Dead Load on the roof	No dead load, only 140 kgs per 1,000 sq feet roof plate	23 tons for a 1,000 sq feet roof plate (for a 5" treatment approx)
Product Thickness	2 inches	4 or 5 inches
Electricity consumption	40% savings on air conditioning bills	Increases AC usage
Maintenance	Nil	Without periodic maintenance, the entire roof slab is at risk
Installation time	2,000 sq feet a day	Cumbersome, time-consuming & not consistent
Thermal shocks	Almost nil	Extreme temperature differences between outdoor/indoor causes thermal stress
Steel savings	You save on steel if XPS insulation is incorporated at design stage	Not applicable



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