~~WHAT IS CLAIMED IS:~~CLAIMS

1. A roof structure comprising:

a truss structure foundation corresponding to a roof base, the truss structure foundation being made of a C-shaped steel material;

a plurality of lock rails provided on the truss structure foundation; and

a thermal insulation roofing material provided on the plurality of lock rails,

wherein the thermal insulation roofing material includes~~-~~:

a metallic roofing material~~,~~;

a back side material~~,~~;

a thermal insulation material provided between the metallic roofing material and the back side material~~,~~; and

a male joint and a female joint provided at both ends in a flow direction of the thermal insulation roofing material,

wherein each of the plurality of lock rails includes:

a roofing fixed piece;

a pair of elevating pieces suspending downward from both ends of the roofing fixed piece in the flow direction; and

a pair of fixed pieces projecting outward away from each other from lower ends of the pair of elevating pieces,

wherein the plurality of lock rails are arranged from an eave to a ridge at working widths of the thermal insulation roofing material and

wherein the thermal insulation roofing material is provided on the roofing fixed piece.

2. The roof structure according to claim 1, further comprising a sheet provided over an entire surface between the truss structure foundation and the plurality of lock rails or between the plurality of lock rails and the thermal insulation roofing material.

~~3. A roof structure characterized in that a truss structure foundation is employed as a roof base, on the truss structure foundation, a thermal insulation material is formed between a metallic roofing material and a back side material, a plurality of lock rails are formed from an eave to a ridge at working widths of a thermal insulation roofing material including a male joint and a female joint formed at an upper and lower ends, and a thermal insulation roofing material is formed on the lock rails.~~

~~4. The roof structure according to claim 3, characterized in that a sheet is formed over an entire surface between the truss structure foundation and the lock rails, or between the lock rails and the thermal insulation roofing material.~~