

CHOSEN LOCATION: LADAKH REGION





Stone and Mud Brick Walls

Climate:

Cold Desert Climate: Ladakh experiences long, harsh winters with temperatures often dropping below freezing and short, warm summers.

- Low Precipitation:** The region receives very little rainfall, making it a cold desert.

Suitability of Architectural Elements:

- Thermal Mass:** Stone and mud bricks have high thermal mass, absorbing heat during the day and releasing it at night, helping to regulate indoor temperatures.

- Insulation:** These materials provide excellent insulation against the cold, crucial for the long winter months.

Flat Roofs with Insulated Layers

Climate:

- Low Rainfall:** Flat roofs are suitable in Ladakh due to the minimal rainfall, reducing the risk of water pooling and leaks.

- High Solar Radiation:** The region receives significant solar radiation, especially in summer.

Suitability of Architectural Elements:

- Insulated Roofs:** Multiple layers, often including mud and straw, provide insulation, keeping homes warm in winter and cool in summer.

- Flat Design:** Simplifies construction and is practical in an area with little rainfall.