

ROOF IS ITS FIRST LINE OF DEFENSE AGAINST THE WEATHER, PROTECTING IT FROM RAIN, SNOW, & SUN. THE ROOF HELPS TO INSULATE THE BUILDING FROM EXTREMES OF HEAT & COLD & TO CONTROL THE ACCOMPANYING PROBLEMS OF AIR LEAKAGE & WATER VAPOR CONDENSATION.

ROOF - CAN BE COVERED WITH MANY DIFFERENT MATERIALS. THESE CAN BE ORGANIZED CONVENIENTLY INTO TWO GROUPS:

STEEP ROOFS - CAN BE MADE WATERPROOF WITH ANY OF A VARIETY OF MATERIALS. THIS THATCHED ROOF IS BEING CONSTRUCTED BY FASTENING BUNDLES OF REEDS TO THE ROOF STRUCTURE TO IN OVERLAPPING LAYERS IN SUCH A WAY THAT ONLY THE BUTTS OF THE REEDS ARE LEFT EXPOSED TO THE WEATHER.

LOW-SLOPE ROOFS - WATER DRAINS RELATIVELY SLOWLY FROM THE SURFACES, & SMALL ERRORS IN DESIGN OR CONSTRUCTION CAN CAUSE THEM TO TRAP PUDDLES OF STANDING WATER.

STRUCTURE + ENVELOP

*PROTECTS - SUN, RAIN (WATER)
SNOW WIND
HEAT/COLD (CLIMATE)

* ENVELOP-WRAPPING/OVERALL
DOMINO-STRUCTURAL

ENVELOP
↓
Layers

MEMBRANE ✓ EPDM

INSTALLATION - KEEPS TEMPERATURE IN & OUT
PASSIVE - OWN WAY (COMFORT) (NO ENERGY)
SHELTER - PROTECT US (PEOPLE)