# DETAIL

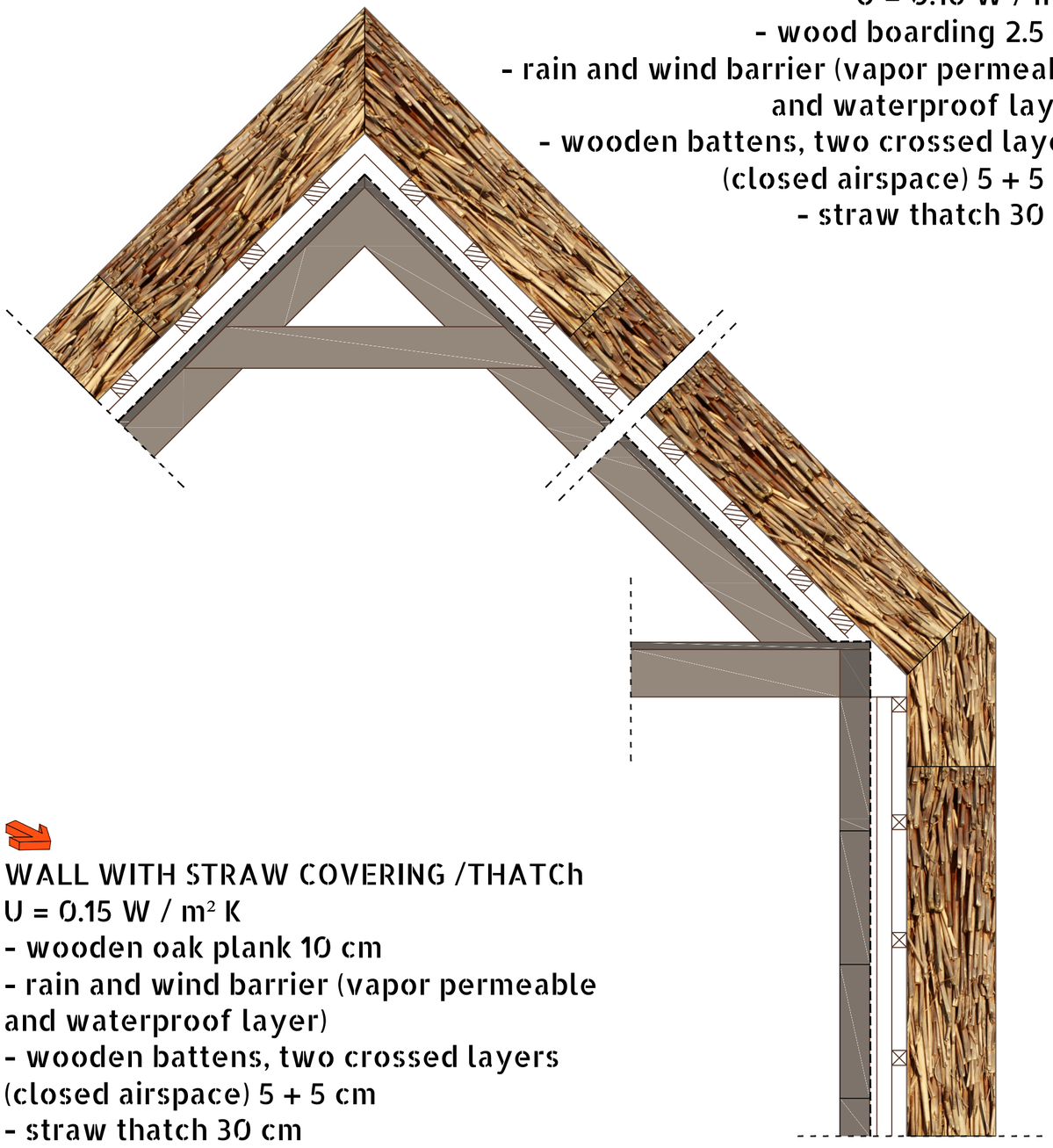
REINTERPRETATION OF THE ORIGINAL APPLICATION OF COVERING WITH STRAW AS A ROOF COVERING AND CLADDING WITH DOUBLE FUNCTION - PROTECTION FROM PRECIPITATION AND THERMAL INSULATION

ACHIEVED LEVEL OF THERMAL INSULATION WHICH IS IN MODERN BUILDINGS ACCORDING TO THE BUILDING CODES REQUIRED ONLY IN THE LAST 10 YEARS

MINIMAL STRUCTURAL INTERVENTIONS WITH MAXIMAL EFFECT OF THERMAL INSULATION AND THE CORRECT POSITION OF THERMAL INSULATION WITH REGARD TO BUILDING PHYSICS (THATCH WITH THE CALCULATION VALUE OFOF THERMAL CONDUCTIVITY $\lambda \leq 0.05$ W / m k ).

THE DURABILITY OF THE FACADE / ROOF COVERING WITH RYE STRAW THATCH - UP TO 60 YEARS.

THATCHED ROOF
U = 0.16 W / m² K
- wood boarding 2.5 cm
- rain and wind barrier (vapor permeable and waterproof layer)
- wooden battens, two crossed layers (closed airspace) 5 + 5 cm
- straw thatch 30 cm



WALL WITH STRAW COVERING /THATCh
U = 0.15 W / m² K
- wooden oak plank 10 cm
- rain and wind barrier (vapor permeable and waterproof layer)
- wooden battens, two crossed layers (closed airspace) 5 + 5 cm
- straw thatch 30 cm

COMPLETELY ENVIRONMENTALLY NEUTRAL, ZERO CARBON BUILDING MATERIAL, RECYCLING WITHOUT THE ENVIRONMENTAL IMPACT AND ENERGY CONSUMPTION, CAN MEET ALL MODERN STANDARDS IN TERMS OF THERMAL INSULATION AND ENERGY EFFICIENCY.