

**Knowledge**

Trainees know ...

- the characteristics of the different materials (λ [Lambda], ρ [Rho], μ [My], w , w_{24} , CO_2 storage, ...)
- the forms of heat transfer (conduction, radiation, convection).
- the importance and principles of cold and heat protection in winter and summer
- about basics of thermal bridges
- importance of airtightness and windproofness
- the humidity transport (vapour, capillary) and the principles of moisture protection
- the importance of rain protection
- how to protect against flooding inside and outside
- the s_D value of different cladding materials
- the principles of fire protection with building matter and constructive elements

Skills

Trainees can ...

- construct buildings with reduced thermal bridging
- build airtight details and detect air leakages and repair them
- select appropriate materials for different construction details
- protect the straw bales from water, moisture and fire

Competence

Trainees can ...

- ensure weatherproof conditions for building site (including straw bale storage, overnight and during longer breaks),
- create airtightness and avoid thermal bridges as well as handle humidity problems.
- take care of fireproof situations .