

Coop 45

Coop 45 is a raised timber framed linear chicken coop that is inspired by the gable forms and timber construction details of the surrounding farm buildings. The design splits the standard gable form in half creating a 45 degree mono truss that is duplicated to form an inviting and unique spatial experience for the feathered occupants. The concept sits comfortably within the clustered gable typology of the traditional farmstead whilst creating its own individual architectural form. The internal layout features 9 nesting boxes that are located at the base of the sloped roof that provide individual private cosy spaces, whilst a single length of round timber is fixed to the truss webs to provide a perch for the chickens. Timber shiplap cladding wraps the framework and creates clean lines with a slight overhang for internal weather protection. The external weathering of the timber material overtime with the exposure to the elements will allow the structure to blend in with the other farm buildings. Polycarbonate sheeting on both of the structure ends allows for diffuse light to enter and offers a level of internal lumination as well as privacy for the chickens. Ventilation holes located in the top section of the sheeting allow for natural ventilation to the internal space. Stabilized rammed earth footings provide a stable base for the elevated structure that is raised off the ground for protection from foxes and for ease of interior cleaning and egg collection. The vertical walled side features an operable hatch that can be opened for cleaning and can be left open in summer time for cooling ventilation. The sloped roofed side features smaller operable hatches that can be opened for egg collection and to enter the structure via the ladder.



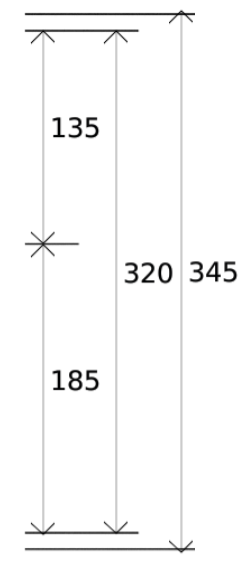
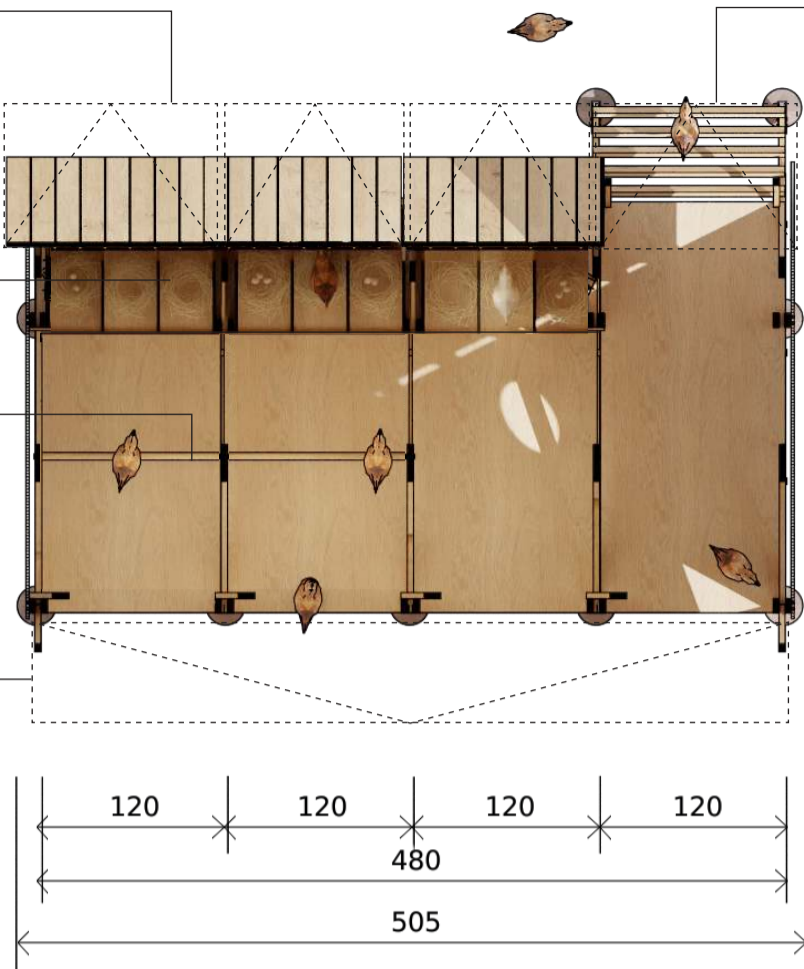
operable egg collecting hatches x 3

nesting boxes x9 [32x65cm]

indoor sleeping area with perch [240cm]

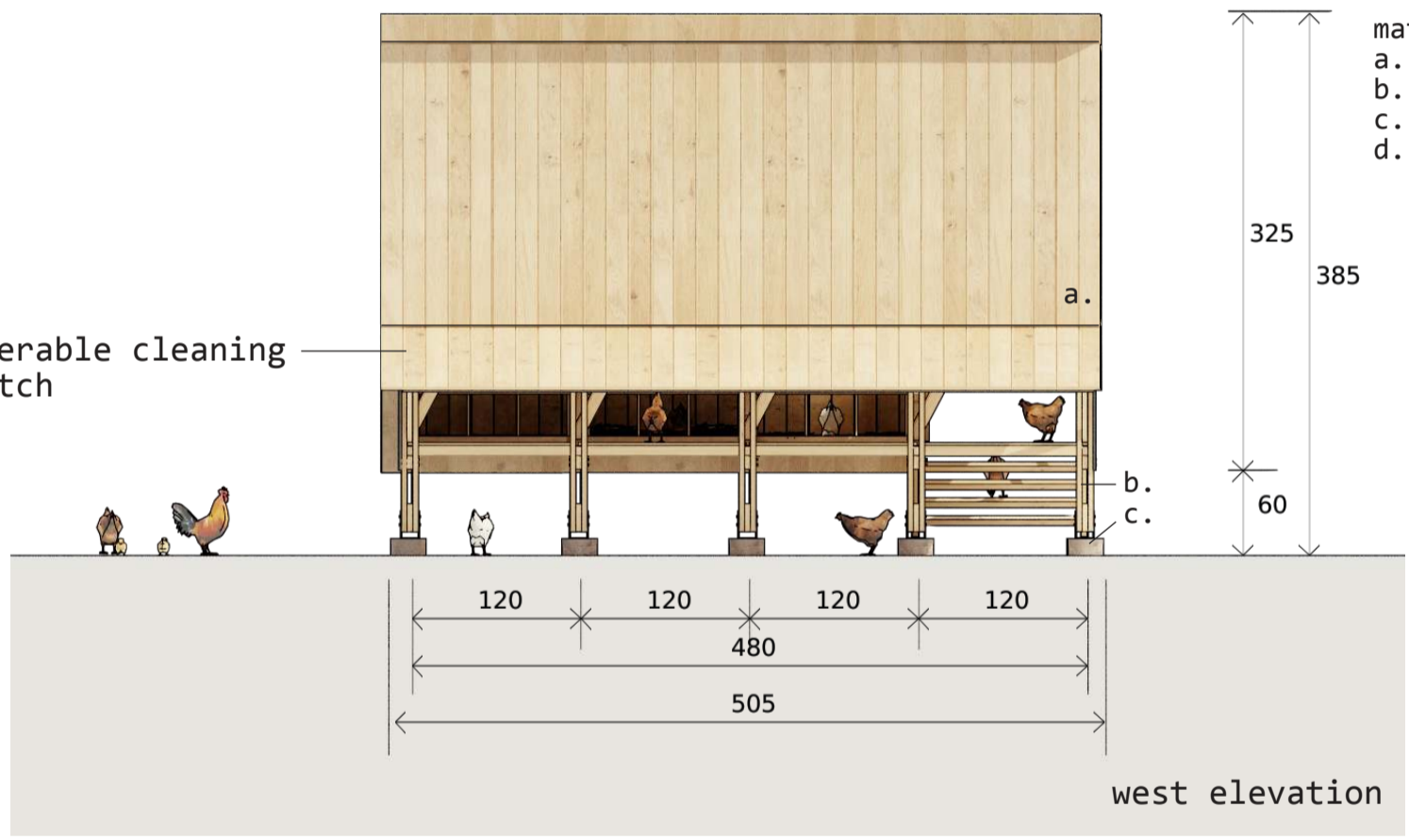
operable cleaning hatch

operable entrance ladder



plan

operable cleaning hatch



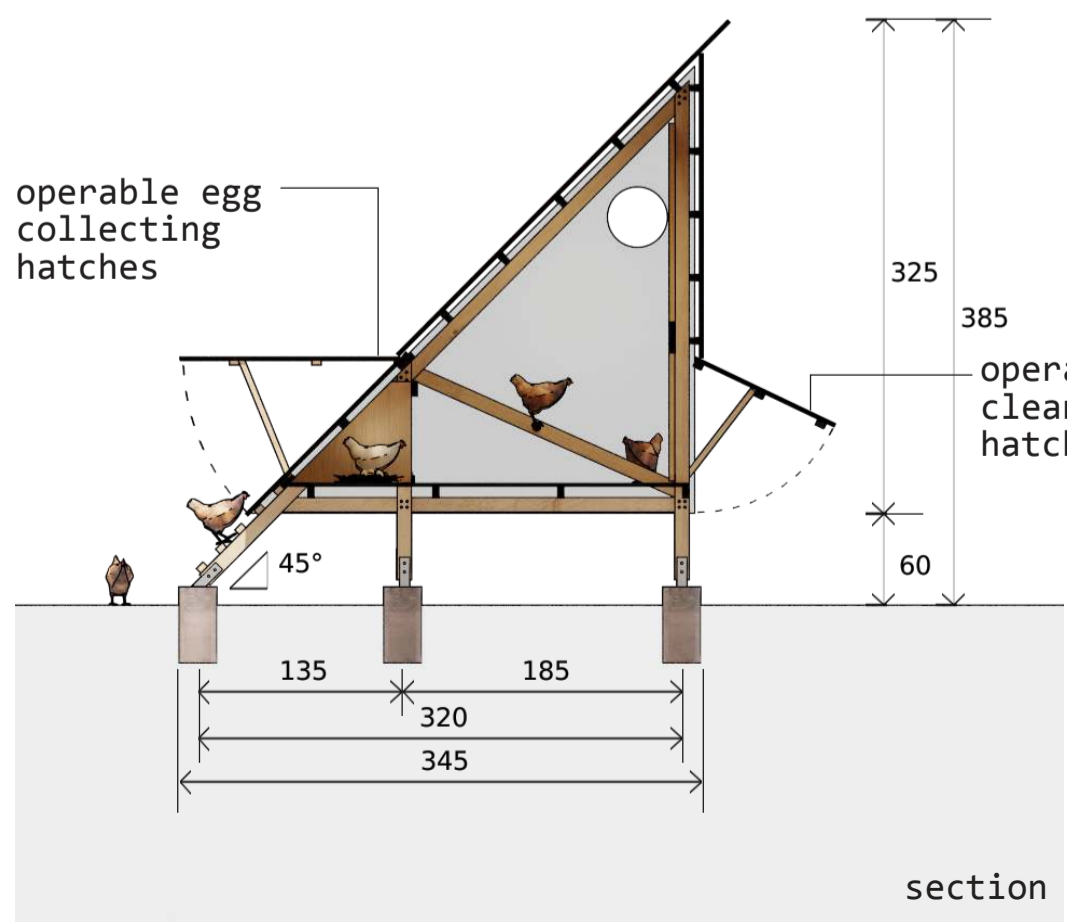
materials
 a. timber larch cladding
 b. timber pine frame
 c. rammed earth footings
 d. polycarbonate cladding

west elevation

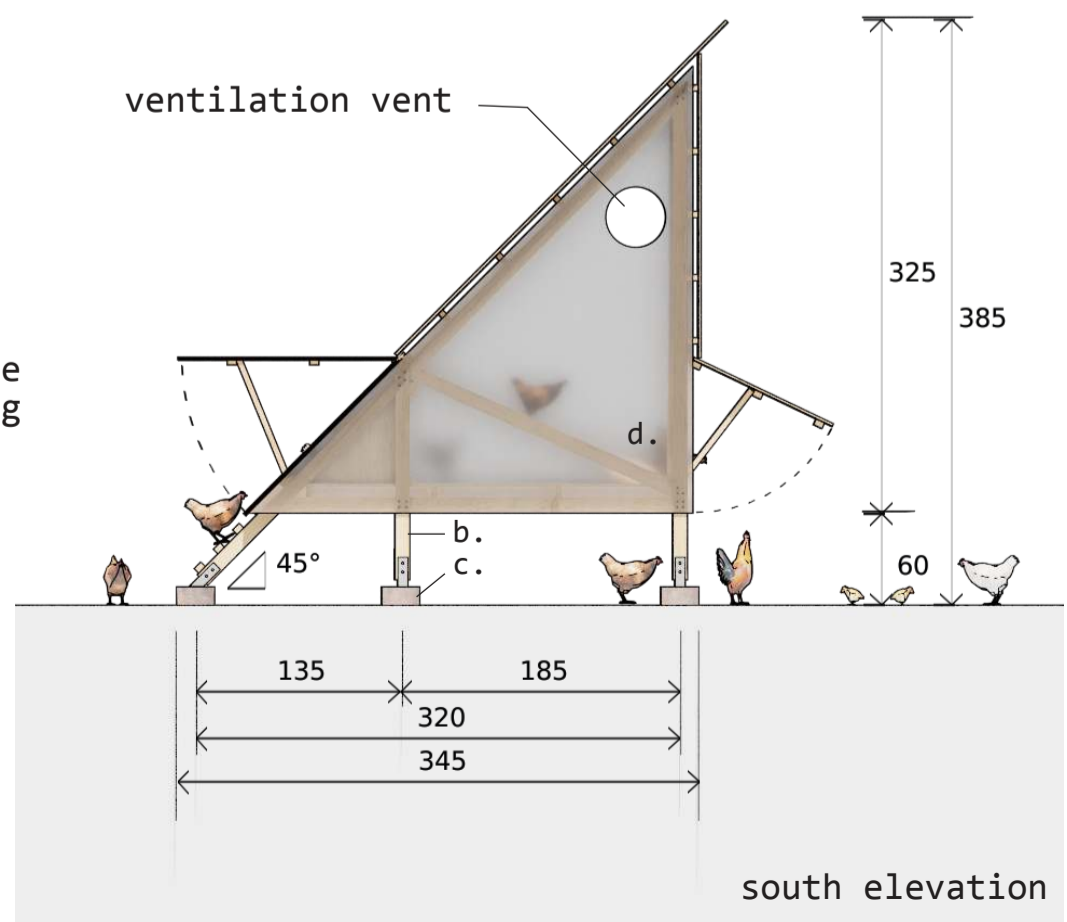
operable egg collecting hatches

ventilation vent

operable cleaning hatch



section



south elevation



