



axonometric view of the
construction layers

1. rack


 system construction

2. roof

 PV- Roof


 green roof -
Biodiversity


3. openings

 re-use windows

4. interior walls

 climate layer

 modular system

 re-use cladding

5. facade

 climate layer


 re-use concrete

6. construction

 recycled steel

7. ground

 recycled stones

 re-use floor
pavement

8. foundation

 concrete free
foundation

1. rack

The pallet storage rack is the connecting element between the two buildings and can be used flexibly.

2. roof

The roofs of the two buildings each have an area of about 380 m² and have different coverage. The south-facing light non-insulated roof serves as a surface for PV modules that can cover the energy needs of the building. The north-facing pent roof is intended as a green roof that houses a variety of plants and grasses.

3. openings

All windows are re-use material from the school and placed differently in the facade. Most of the doors also come from the school, the garage doors can be used standard elements.

4. interior walls

The interior walls are adapted to the individual climatic layers. The office, the changing rooms and sanitary rooms are made in a modular wood frame construction and extra insulated. In the workshop, the outer wall is also additionally insulated and lined from the inside. The warehouse is insulated only by a thin insulation behind the facade construction. The garage and the warehouse are separated with window elements from the school.

5. facade

The facade consists entirely of the existing washed concrete panels of the school. The plates are set in such a way that as little as possible has to be cut and adjusted. Openings are cut into the facade at the windows of the rooms.

6. construction

Both halls are made in a steel frame construction, the grid of the supporting structure is based on the racking modules. The steel frame construction is a robust and simple construction.

7. ground

The floor inside and outside the building is made of the various paving and floor slabs of the school.

8. foundation

The foundation is planned completely without concrete. The beams are fixed in the ground by spider anchors. The floor is supported on a compacted foam glass insulation.

axonometric overview
from north-west