Building Orientation

The URBANDALE CENTRE for HOME ENERGY RESEARCH (UCHER) is designed to minimize energy consumption and optimize performance. The building orientation is crucial for maximizing solar gain and optimizing energy use. The north-south orientation is ideal for passive solar design, allowing for the best natural light and minimal energy demand for heating and cooling.

Roof

The roof has a slanted design, providing insulation and reducing heat loss. The roof is equipped with solar panels for renewable energy generation. The sloped design also contributes to rainwater harvesting and reduces water runoff.

Wall Construction

The wall construction is designed to be energy-efficient and sustainable. The exterior walls are insulated with high-quality insulation materials. The interior walls feature energy-efficient building techniques to minimize heat loss. The materials used in the construction contribute to the overall sustainability of the building.