ADDED THERMAL INSULATION
BEHIND THE HEATING CONVECTOR
90MM

INDOOR SELF-LEVELING AND POLISHED CONCRETE FLOOR
FINISH 20MM
CONCRETE TOPPING 30MM
DOUBBLE-T REINFORCED CONCRETE SLAB
LIGHT GREY CEILING PLATE 30MM
INDOOR FLOOR FINISH 20MM
WOOD SUPPORTING FRAME 30×40MM
CONCRETE TONING 30MM
NEW RC SLAB WITH METAL DECK STRUCTURE 150MM
CASTELLATED BEAM 150×480MM

WOOD FRAME TO SUPPORT THE PLYWOOD FACADE ELEMENTS 30×30MM
PLYWOOD WINDOW FRAME COVER 15MM
VENTILATION INTLET DUCT CONNECTED TO HEAT EXCHANGER ON THE ROOF
STEEL FRAME TO SUPPORT WEIGHT OF SOLAR ENERGY ABSORBER PANELS 120×80MM
GRID PLATE FOR MAINTAINANCE WORK WITH DEPTH OF 650MM

ROTATABLE DARK WOOD SUNSHADING PLATE FIXTED ON STEEL COMPONENT 20MM TOP OPENNING ON INNER CURTAIN WALL FOR NATURAL VENTILATION OUTLET

DETAIL 6 1:10
DETAIL OF JOINT BETWEEN OLD AND NEW STRUCTURE 1:10
1. Rainwater Collection and Reuse
2. Solar PV Panel and Solar Energy Absorber
3. Heat Exchanger for Heating Recovery
4. Soil Pre-Cooling Fresh Air
5. Geothermal Cooling System
6. Solar Chimney Facade
7. Vegetable Production
8. Rooftop Greenhouse As Climate Buffer Zone

SUMMER CLIMATE
1. Rainwater Collection and Reuse
2. Solar PV Panel and Solar Energy Absorber
3. Heat Exchanger for Heating Recovery
4. Soil Pre-Heating Fresh Air
5. Geo-Thermal Heating System
6. Solar Chimney Facade
7. Vegetable Production
8. Rooftop Greenhouse as Climate Buffer Zone
9. Urban Heating System and the Kiln Heat as Supplementary Heat Source