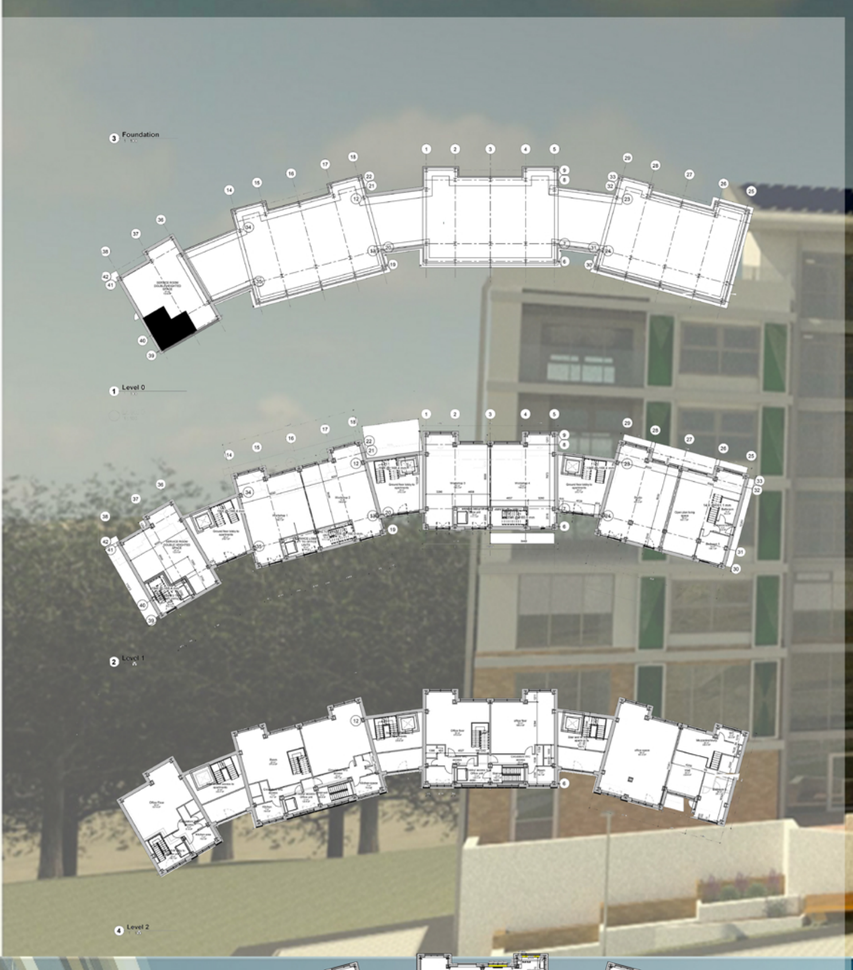
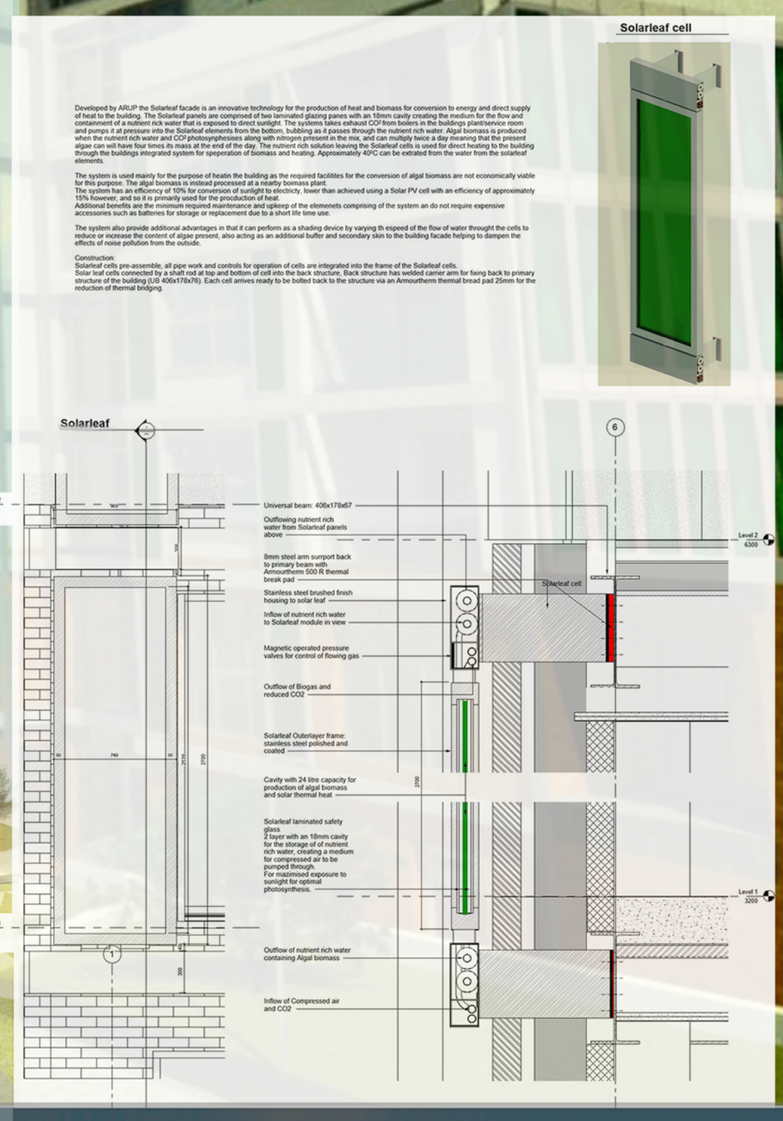
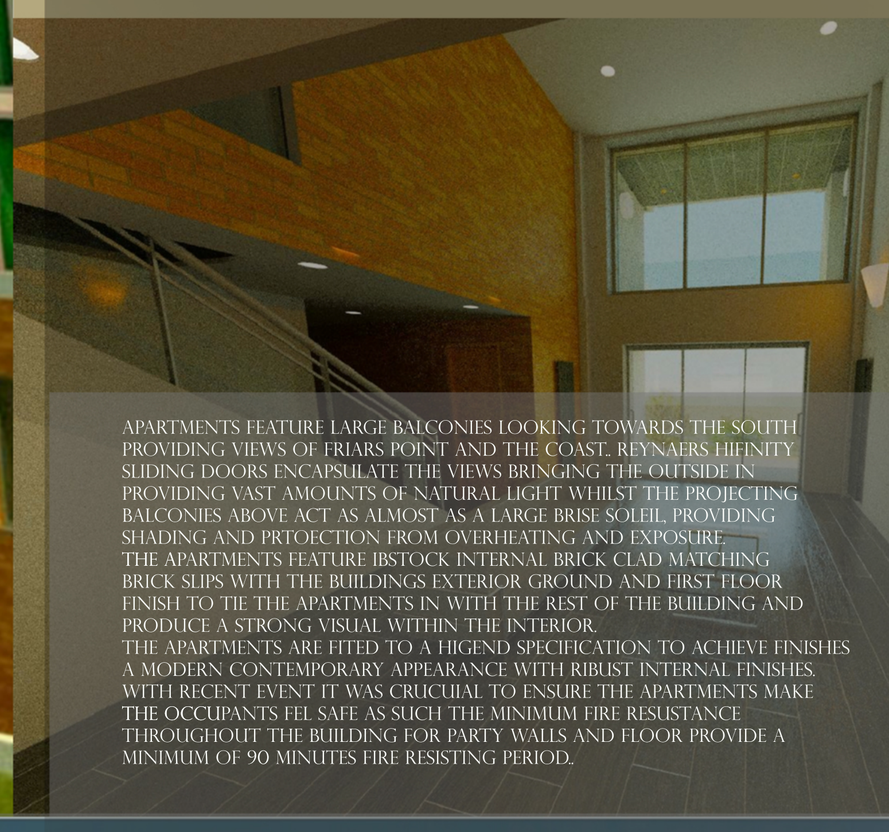
FFRIARS POINT MULTI-USE DEVELOPEMENT

FRIARS POINT MULTI-USE DEVELOPMENT CONSISITING OF OFFICES,, WORKSHOPS APARTMENTS AND DUPLEX APARTMENTS,. THE PROPOSED DEVELOPMENT SITED ON FRIARS POINT, BARRY, SOUTH WALES IS LOCATED IN AN AREA OF NATURAL BEAUTY AND TRANQUILITY, THE SITE DESIGN ENCOMPASSES THE SURROUNDINGS WITH ITS PLANTING OF TREES AND SHRUBS AND MINIMISED ALTERATION TO SOFT SCAPED AREAS WITHIN THE GROUNDS. THE SITE DESIGN AND CONSTRUCTION INTENDS TO MINIMISE THE DEVELOPMENTS IMPACT ON EXISTING MICRO-HABITATS AND SURROUNDINGS THROUGH THE USE OF PERMEABLE PAVING WITH PERMAVOID GEOCELULAR STRUCTURE FOR RETENTION AND FILTRATION OF ROAD POLLUTANT RUNOFF. THE BUILDING FRONT ON APROACH IS DECORATED WITH PLANTING AND THE USE OF RAISED PLANTERS INCORPERATING SEATING,.



SITE BOUNDARIES ARE FORMED USING SOFT LANDSCAPED AREAS AND SWALES. THESE SOFT BOUNDARIES PROVIDE THE USERS AND OCCUPANTS OF THE SITE WITH THE ABILITY TO FREELY WALK FRIARS POINT WITHOUT FEELING SEPERATED OFR CUTOFF FROM THE SITES SURROUNDINGS. CELEBRATING AND EMBRACING THE NATURE OF THE DEVELOPMENTS SETING.
THE BUILDING APPEARANCE IS BROUGHT CLOSER TO NATURE WITH THE INCORPERATION OF THE SOLARLEAF FACADE, LAMINATED GLAZED ELEMENTS CONTAINING A NUTRIENT RICH WATER SOLUTION CONTAINING ALGAE, OF WHICH THE CONTENT AND DENSITY CAN BE CONTROLLED FOR VARIED SHADES OF GREEN, CREATING A VISUALY GREEN AND ENVIRONMENTAL STATEMENT WHICH TIES THE BUILDING IN WITH THE SURROUNDING TREES, SHRUBBERY AND GRASSED LANDS.





APARTMENTS FEATURE LARGE BALCONIES LOOKING TOWARDS THE SOUTH PROVIDING VIEWS OF FRIARS POINT AND THE COAST,. REYNAERS HIFINITY SLIDING DOORS ENCAPSULATE THE VIEWS BRINGING THE OUTSIDE IN PROVIDING VAST AMOUNTS OF NATURAL LIGHT WHILST THE PROJECTING BALCONIES ABOVE ACT AS ALMOST AS A LARGE BRISE SOLEIL, PROVIDING SHADING AND PRTOECTION FROM OVERHEATING AND EXPOSURE.
THE APARTMENTS FEATURE IBSTOCK INTERNAL BRICK CLAD MATCHING BRICK SLIPS WITH THE BUILDINGS EXTERIOR GROUND AND FIRST FLOOR FINISH TO TIE THE APARTMENTS IN WITH THE REST OF THE BUILDING AND PRODUCE A STRONG VISUAL WITHIN THE INTERIOR.
THE APARTMENTS ARE FITED TO A HIGEND SPECIFICATION TO ACHIEVE FINISHES A MODERN CONTEMPORARY APPEARANCE WITH RIBUST INTERNAL FINISHES. WITH RECENT EVENT IT WAS CRUCUIAL TO ENSURE THE APARTMENTS MAKE THE OCCUPANTS FEL SAFE AS SUCH THE MINIMUM FIRE RESUSTANCE THROUGHOUT THE BUILDING FOR PARTY WALLS AND FLOOR PROVIDE A MINIMUM OF 90 MINUTES FIRE RESISTING PERIOD,.

SUSTAINABILITY:
THE DEVELOPMENT EMPHASIS FOCUSES ON TECHNIOLOGIES AND DESIGN FOR MINIMISED ENVIRONMENTAL IMPACT INCORPERATING THE USE OF APPROXIMATELY 202 SQUARE METRES OF PHOTOVOLTAIC SOLAR PV'S AND 102 SOLARLEAF CELLS FORMING AS PART OF THE BIOREACTOR FACADE DEVELOPED BY ARUP AND SITE DESIGN FEATURING MARSHALLS PERMEABLE PAVING WITH POLYPIPES PERMAVOID MEDIUM DUTY GEOCELLULAR DRAINAGE AND FILTRATION LAYER. PITCHED ROOF ELEMENTS ARE HAVE A TILT OF 20 DEGREES AND FACE TOWARDS THE SOUTH FOR MAXIMISED SOLAR GAINSTO PRODUCE A LARGE AMOUNT OF ELECTRICITY FOR THE BUIDLING IN USE AND SURPLUS TO BE FED BACK TO THE NATIONAL GRID,. THE SOLARLEAF FACADE IS USED FOR HEATING THE BUILDING AND THE PRODUCTION OF ALGAL BIOMASS FOR CONVERSION FUEL. THE SOLARLEAF FACADE TAKE EXHAUST O2 FROM THE BUILDINGS CENTRAL BOILER SYSTEM AND USES IT IN ITS PRODUCTION OF ALGAE, PUMPING IT AT PRESSURE THROUGH THE SOALRLEAF PANELS, PREVENTING EXHAUST CO2 FROM BEING DISCHARGED INTO THE ATMOSPHERE SIGNIFICANTLY REDUCING THE BUILDINGS CARBON OUTPUT.
SITE CARPARKING AREA AND IN ROADS ARE CONSTRUCTED AS SELF DRAINING SURFACES, THE SELFDRAINING PAVING AND GEOCELLULAR DRAINAGE WITH FILTRATION LAYER WORK TO SIGNIFICANTLY REDUCE THE AMOUNT OF ROAD POLLUTANT RUNOFF IN PERIODS OF HEAVY RAIN TO PREVENT DETRIMENTAL EFECT FROM OCCURING TO EXISTING WILDLIFE. THE GEOCELLULAR DRAINAGE STRUCTURE DISCHARGES FITLER RUNOFF INTO SWALES LOCATED ALONGSIDE CARPARKING AREA TOWARDS THE COASTLINE. SWALES HERE PROVIDE ADDITIONAL BENEFITS OF FILTERING PROPERTIES AND WILL AID TH PREVENTION OF POLLUTANT CONTAMINATION INTO THE SUROUNDING SOILS AND FURTHER A FIELD PREVENTING ANY DETRIMENTAL EFFECTS TO ROCKPOOL CULTUREZ