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YOU ARE ADVISED TO KEEP A COPY OF THIS COMPLETED FORM FOR YOUR RECORDS

Reducing the need for energy

1. Detail how the layout and design of buildings encourages conservation of heat, by minimising the external wall and roof area through which heat can escape? (NB Flats and terraces are inherently more efficient than semis and detached houses).

THE BUILDING HAS A COMPACT BUILT FORM. WHERE, IN MOST PLACES, WE HAVE 2 ROOMS DEEP.

2. Describe how the development has been laid out to provide orientation for optimal solar benefit (either loss or gain, depending on use of building)? (Consider layout of habitable rooms/Workspace and window design and positioning)

THE POSITION AND ORIENTATION EAST/WEST ARE DICTATED BY THE ORIGINAL BUILDING. HOWEVER, THE PROPOSED EXTENSION, THAT FACES SOUTH, WILL PROVIDE OPTIMAL SOLAR BENEFIT IN THE MAIN LIVING SPACES.

3. Detail how passive measures for shading and cooling of the buildings will be incorporated?

THE SOUTH FACING ELEVATION WILL BE SHADED IN THE SUMMER BY THE RETAINED FRUIT TREE, AND LOUVERS ABOVE THE SOUTH FACING WINDOWS HAVE BEEN INCLUDED TO PROVIDE SHADE IN THE SUMMER.

4. Detail how the use of planting and landscaping will take account of opportunities to shelter buildings from the prevailing wind and from colder winds from the north and east.

THE BUILDING REMAINS LOW AND IS PARTIAL SET IN THE GROUND TO MINIMISE ITS EXPOSURE TO THE WIND. THE EXISTING BUILDINGS (GARAGES) AND EXISTING ESPALIER TREES HELP TO SHELTER THE BUILDING FROM THE WINDS.

5. Detail how will the use of planting and landscaping take account of opportunities to provide shade to buildings in the summer, without loss of natural light in winter?

THE RETAINED TREE AND THE POSSIBILITY OF CREEPING VEGETATION ON THE LOUVERS WILL PROVIDE SHADE IN THE SUMMER.

6. How does the design allow for the use of natural light throughout the building?
(Consider use of roof-lights, light wells, light tubes or atriums where appropriate)
- THE GENERAL DESIGN ALLOWS FOR LARGE WINDOWS IN EACH ROOM WHERE WINDOWS ARE NOT POSSIBLE FOR PRIVACY REASONS OR WHERE THE PLAN IS DEEP AND THE NATURAL LIGHT IS REDUCED, ROOFLIGHT HAVE BEEN INSTALLED.
7. How will efficient natural ventilation be provided?
(through trickle ventilation, air bricks, passive stacks or an alternative method)?
- THROUGH TRICKLE VENT

Using energy more efficiently

8. If a new heating system is to be installed, will it be one that conserves energy?
(Specify details of system and energy efficiency rating)
- AIR SOURCE HEAT PUMP WILL BE INSTALLED
9. Will insulation be provided over and above building regulation requirements?
If yes please specify details.
- THE PROPOSAL WILL COMPLY WITH THE BUILDING REGULATIONS INSULATION REQUIREMENTS.
10. Will high performance glazing **above** minimum building regulations be specified?
If yes please specify details.
- 24 MM DOUBLE GLAZING UNITS, ON ALL WINDOWS WILL BE USED.
11. Will an air conditioning system be installed? If yes please specify details.
(commercial developments only)
- NO.
12. Will energy efficient lighting (external and internal) be fitted throughout the development? Please specify details.
- ALL EXTERNAL & INTERNAL LIGHTS WILL BE FITTED WITH ENERGY EFFICIENT LIGHT BULBS.
13. Explain how the energy embodied in materials will be minimised during construction?
- Through the use of recycled materials, reuse of demolition materials on site and low embodied energy products (such as timber; unfired clay bricks or tiles; cork; wool; cellulose or flax insulation).
- WHERE EVER POSSIBLE MATERIAL FROM THE DEMOLISHED BUILDING WILL BE REUSED. AND TIMBER WILL BE USED ON ALL EXTERNAL WALLS.

Using renewable energy

14. Will on-site renewable energy be included? If yes please specify details.
(This could include building integrated wind, solar or biomass power or free standing wind, hydro, solar or biomass installations adjacent to the site).
- AIR SOURCE HEAT PUMP WILL BE USED.