3. The Design

Please see below for the layout design of the potential solar installation at your site. The exact layout is to be confirmed at the final design stage due to any changes that may be made from our client consultation, recommendations of the structural assessment or the best use of materials in relation to the electrical infrastructure.

Design Summary

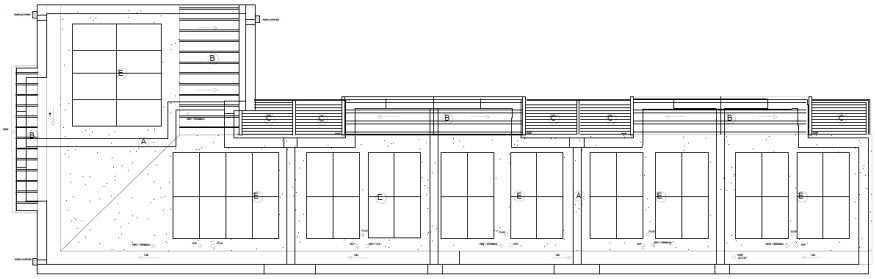
Due to the complexity of using a single ply membrane pitched at 15° as the mounting point for the solar array we have been in contact with Nicolson who supplies Rooftrack IFP fixing points which have been approved for use by your roofing contractor as a suitable fixing method that will be weathered by them using their Sarnafil membrane. It is our intension to mount upon these fixing points using a purpose made aluminium mounting system that will hold the solar modules in place.

For avoidance of doubt it will be the responsibility of the roofer to install the 96no. fixing points that we will free issue to them with setting out details. Note, the roofer will have to supply 96no. 500mm² patches of Sarnafil membrane which will be integrated with the Rooftrack IFP as per the installation guide attached. Once the Rooftrack fixing points are installed it will be our responsibly to install the mounting system and solar modules.

The solar inverter will be located in the bike shed where there is a 3phase point of connection with a 20A 3pole MCB provided in the distribution board. The inverter will require a free space on the wall of approximately 1200 x 1200mm.

DC cabling is to carried out via a dedicated pre-installed ducting/conduit from the a swans neck on the roof surface, through the building to ground level and then through underground ducting to the inverter position.

This system will require independent structural assessment for wind a weight loadings. This can be carried out by Beba Energy or the project's structural engineer.



The illustration provided offers a general guide e.g. the appearance of the system is subject to change.

- Note when there are roof lights involved we would normally construct the mounting system over the roof lights, removing panels over the roof lights themselves (if required), so the incoming light is not affected.