

DESIGN & ACCESS STATEMENT

74 TUDOR WAY, UXBRIDGE UB10 9AB

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1. SITE & SURROUNDING PHOTOGRAPHS



IMAGE 1: LOCATION MAP



IMAGE 2: STRUCTURE LOCATION IMAGE

2. Introduction

The residence is situated in the Borough of Hillingdon, in the west of Greater London. The area covers a part of Uxbridge which is an affluent suburban location & has a vibrant and diverse range of people. The postcode surrounds mostly detached houses for family living offering a convenient and comfortable lifestyle, easy access to public transport, green spaces and a range of amenities.

3. Overview

The planning policy for pergolas or pool roofs states the following:

- Within a Conservation Area, no buildings, enclosures, pools or containers are permitted at the side of properties
- No outbuilding forward of the principal elevation fronting a highway
- The height of the structure will be less than 4000MM if the roof is pitched, or 3000MM for any other roof.
- The height of the eaves is not to exceed 2500MM
- If any outbuilding is within 2000MM of any boundary, the maximum height must not exceed 2500MM
- No verandas, balconies or raised platforms (raised platform means a platform with a height greater than 300mm)
- The structure together with any other buildings and enclosures will occupy less than 50% of the garden area.

The proposal complies with all the planning policies mentioned whilst promoting green energy. Overall, the pool structure and solar panel system are designed to provide a sustainable and energy-efficient solution for the household.

4. Design Brief

The demands for the design are fairly simple, they want to cover the pool with a pergola roof structure taking into consideration the size, shape, height and clearance, roof design, lighting and electrical, planting and building code to ensure that the structure complements the pool and landscaping, protects from the elements and ensure the safety of the area.



IMAGE 3: FRONT VIEW

The pergola structure designed for the client is a harmonious blend of modern design and natural surroundings. The shape of the roof runs parallel to the longitudinal axis of the unique pool design. It's a framed structure with durable and weather-resistant material, and glazing panels on the outer edges to provide shade and UV protection.

The roof has a height of 2500mm from the boundary for up to 2000mm inwards (as per the policy requirement). It is proposed to provide a green roof, which will add green aesthetics and protect the visual outlook.

The main roof at the centre of the structure is a pitched roof with an angle of 12°. The lower section of the main roof is 2900mm high (front elevation) giving a head clearance of 2700mm and the highest point of the eaves (rear elevation) is 3400mm high giving a head clearance of 3200mm. The reason behind a mild pitch here was to comply with the policy guidelines as the client wants to install solar panels on top of the roof. This is done to conserve the outlook of the front elevation (southwest side) which would be the most effective location to maximise the use of solar panels in creating self-sustainability. The highest point of the structure with the solar panel installed will be up to 3900MM height which is well within the boundary of the guidelines being a 4000mm pitched roof as per the guidelines.

The function of the roof structure serves multiple purposes. Primarily, it provides shade and shelter from the elements for the client, while summers are about 4 months long, a covered pool extends the swimming season by a couple of more months at either end of the summer period. The open-air design allows natural light and ventilation while providing protection from direct sunlight and rain giving the client flexibility to use the outdoor area mostly all year around. The roof divides the area into 3 functional spaces where the first one acts as an entrance encouraging one's attention towards



IMAGE 4: EAST SIDE VIEW

the 2nd zone which is the covered pool area allowing sitting space with a placement of external barbeque following up with the 3rd space which is landscaped as a vegetable garden space.

The aesthetical function works as one entrance, they get engulfed with profound solar energy lit pathway and lushes sent of the greenspace designed to be planted along the boundaries. Upon entering the pergola one can feel the cool breeze due to the waterbody and can relax on the pool recliner chairs. Additionally, vegetation is in proximity to the design with the possibility of the family enjoying some external space. The roof structure grants privacy to the family and at the same time merges with the surrounding due to the green roof design.



IMAGE 5: WEST SIDE VIEW

5. Improving the Environment

As the magnitude of the heatwaves is increasing every year having a covered roof extends family time and saves one from getting sunburns. The solar panels are placed strategically at an angle that gives maximum exposure to the sunlight and promotes sustainability. The electrical energy generated by the solar panels is typically stored in batteries. The current provides green energy for the household.

6. Conclusion

Overall, the open-roof pool structure is a stunning addition to any backyard, providing a luxurious and serene environment that brings together modern design and natural beauty promoting family life.



IMAGE 6: REAR VIEW