The Practice

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National award-winning practice Robert Dye Associates is based in NW London, and has more than 20 years experience in the design and management of domestic/residential architecture. Architectural project experience ranges from new-build houses, careful restoration and conversion of existing buildings for residential and commercial use, to international museum and university buildings.

Following RIBA regional success in London, the practice received the profession's highest award for residential architecture in 2005, winning the RIBA Manser Medal for a sustainable modern house in a sensitive conservation area context in Southwark.

The practice has a burgeoning reputation for delivered projects that have sustainability at their core, and has well-established contacts with structural and environmental engineers, quantity surveyors, and landscape/arboricultural consultants who are sympathetic to the studio's particular approach within new and existing contexts.

Typically the studio manages projects from inception through all stages to completion; it has extensive experience of preparing construction documentation and administering building contracts on site, from one-off residential to large-scale public works. The practice is particularly experienced in London's complex urban and suburban context, whether building new or modernising and extending historic residential buildings.

The work of Robert Dye Associates has been televised in the UK and Japan, the subject of various exhibitions in London over the two last decades, and is regularly published in the architectural press worldwide.

Principal, Robert Dye BA Hons Dip Arch RIBA

Robert won the annual RIBA student prize before graduating with honours in 1977. He has practised architecture both in England and abroad. Working for Sir James Stirling, his major projects included the Clore Gallery at the Tate, London, and as project architect a new-build expansion of the Fogg Art Museum for Harvard, and a new Performing arts Centre for Cornell University.

Since establishing his own practice in 1989, he has continued the successful pursuit of design quality in more fine- grain, predominantly residential work. The practice's (timber-framed/recycled materials) new-build Stealth House was a finalist for a RIBA sustainability prize, then for the European Conference of Leading Architects annual Putz prize, and picked up the prestigious Manser Medal for 2005's best contemporary house at the Stirling Prize ceremony.

Robert has taught sustainability, architecture and urban design at various universities in the UK and America for more than 20 years, and was previously a lecturer on sustainable cities for the Urban Design Masters course at the Bartlett School, University College London.

He has received several awards, contributed to a BBC2 programme on the future of London's architecture, was a member of the LDDC Urban Design Advisory Group shaping the future of Docklands, and is active in judging architecture awards for the RIBA.

Stealth House, Grove Lane, SE4 - Manser Medal winning semi-detached house, adjoining Conservation Area.

Ardleigh Road N1 - Side and rear extensions to semi-detached house in a Conservation Area

Kingstown Street, NW1 - Two neighbouring projects, both including partial rebuilds, modernisation & extensions to article 4 conservation area mews houses.

Shortlisted for two 2013 Camden Design Awards 'Enhancing Context Award' and 'Don't Move, Improve Award'

Hamilton Terrace, NW8 - Extension & modernisation of grade II listed terrace house.

Existing Property and Site

The Property

16 Twisden Road is a semi-detatched house located on a residential street consisting of predominantly 2 storey terraced houses built with stock brick and rusticated red brick quoins. The houses generally have small front gardens, with more generous rear gardens.

16 Twisden Road is at the end of the terrace and has only one immediate neighbour (18 Twisden Road). It has a wider rear and flank garden which is bounded on all sides by a brick garden wall. The garden is partly hidden from Stephenson House by the row of garages against the rear garden wall.

The host property has an existing 2 storey rear outrigger extension. A loft dormer and side-return extension have been recently granted planning permission (2024/4744/P and 2024/4796/P)

Fig.1 Aerial view of 16 Twisden Road from front

Fig.2 Aerial view of 16 Twisden Road from rear

Proposal - Air Source Heat Pump

The proposal is for the installation of an Air Source Heat Pump (ASHP) to provide more cost effective and environmentally friendly heating for the property. This will require the installation of the unit in the rear garden of the property. The area to do so is restricted, due to the width of the sideway and the proximity of the garden-wall.

To comply with the technical requirements of the manufacturer and to optimise the location in terms of any visual and acoustic disruption to both no. 16 and the surrounding neighbours, the ASHP has been positioned in the rear-western corner of the garden. Here, the unit does not obstruct access to the garden, is hidden from both York Rise estate and Stephenson House and is further away from the neighbour at no.18 Twisden Road than the required minimum distance to comply with the MCS (see Fig.6).

The proposed unit is a Samsung EHS Gen 7 R290 Heat Pump, 12kW (see Fig.5) to provide both heating and hot water to the property. It will be installed by a certified MCS installer. The manufacturer's manual/specification has been included with this planning application.

Accordingly, a sound assessment has been undertaken by Econic Energy, the supplier and certified MCS installer, (see Fig.4) which shows the sound Final Result to be compliant with the Microgeneration Certification Scheme (MCS).

Fig.3 Photograph of rear-western corner of the garden with location sketch of ASHP

0. Heat Pump	*Samsung12KW*
1. Sound power level (dB)	*60*
2. Sound pressure level (dB)	*Q4 - "Two Reflective Surfaces"*
3.Distance from heat pump to assessment position (meters)	*8*
4. dB Distance Reduction	*-23*
5. Barriers Between heat pump and assessment position	*Visible*
6.Sound pressure level @ assessment position	*37*
7. Background noise level (dB)	*40*
8. Differential between 6. & 7.	*3*
9. Decibel Correction (dB)	*41.8*
10. Final Result (dB)	**42.0**
	Pass

Fig.4 Sound assessment undertaken by Econic Energy showing compliance with the MCS

Fig.5 Samsung EHS Gen 7 R290 Heat Pump, 12kW

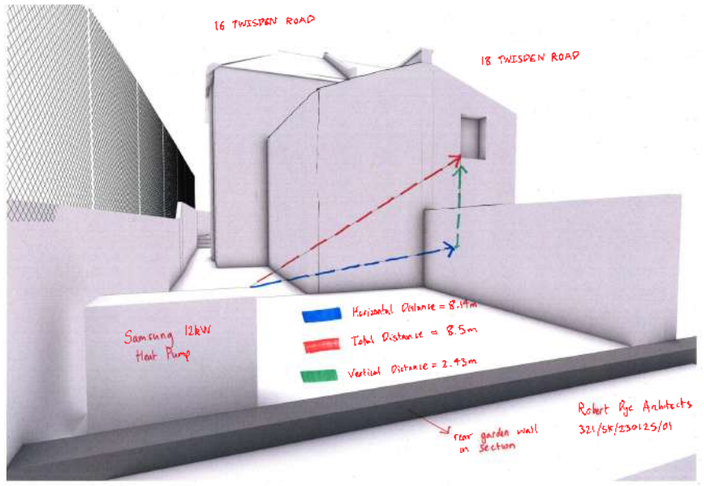

Fig.6 Diagram of distance from ASHP to no.18 rear-window

END

Drawings

Existing OS Map	EX 000	1:1250@A3
Existing Ground Floor Plan	EX 002	1:100@A3
Existing Rear Elevation	EX 202	1:100@A3
Existing West Elevation	EX 203	1:100@A3
Proposed Ground Floor Plan	PA 002	1:100@A3
Proposed Rear Elevation	PA 202	1:100@A3
Proposed West Elevation	PA 203	1:100@A3