



By Appointment to
Her Majesty The Queen
Manufacturer and Supplier
of Secondary Glazing
Selectaglaze Ltd.

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Secondary Glazing

St Philip's Church, Wolverhampton



- Benefit:** Warmer and Quieter
- Type:** Refurbishment
- Listing:** Grade II

St Philip's is a Grade II Listed Anglican Church in the Penn Fields Conservation Area, 3.5km south-west of the centre of Wolverhampton.

St Philip's was built between 1858 – 1859 to Victorian Gothic designs prepared by architects Griffin and Weller. In 1991 Wolverhampton Borough Council designated St Philip's (Penn Fields) a Conservation Area with the church forming its centrepiece. In 1996 as part of a large internal modelling project, the Church was divided to increase the multi-functionality of the building. Worship is undertaken on the first floor, with the ground floor playing host to community events and other uses, thanks to the addition of a series of function rooms.

Architects Brownhill Hayward Brown and Main Contractor Stone Edge were tasked with a full-scale internal refurbishment of the Church in 2020. As part of the works, the original large gothic arched church windows, which could not be replaced, required

a solution to raise their thermal efficiency so that community activities downstairs, like children's groups could take place in a comfortable environment. Furthermore, it was imperative that noise on the ground floor, which had internal and external facing windows was kept to a minimum, so as not to disturb those worshipping on the upper floor.





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Brownhill Hayward Brown got in touch with Selectaglaze, to explore treatment options that would complement the church windows and be highly effective in preventing noise egress and thermal insulation.

Given the sheer magnitude of the church windows, and obscure shaping of the stone reveals on the ground floor, at first glance the installations looked challenging. but when Selectaglaze visited St Philip's to survey, it was found that a simpler solution could be adopted. The window reveals were deep enough to accept the standard fixing method, creating a cavity between the primary and secondary glazing to meet the necessary acoustic reduction. The arched windows on the first floor were supported by wooden frames but could still be adapted with an identical solution to the windows on the ground floor.

Selectaglaze installed 34 units to 11 openings, a combination of 11 Series 10 slimline horizontal sliding units and 23 Series 46 slimline fixed light units. Fixed light secondary glazing can be coupled together with other products such as horizontal sliding units as over lights or side lights - ideal for arched windows as they can be shaped or curved to a full circle.

In each of the four stone openings on the ground floor, three Series 46 fixed lights were transom coupled to a

Series 10 horizontal sliding unit. The horizontal slider was fitted in the lower half of the reveal for access to clean the primary windows, with the fixed lights coupled above to follow the tracery of the beautiful original gothic arches.

A similar installation was executed in the Church space on the first floor in 5 wooden reveals. Series 46 fixed lights were transom coupled side by side above a Series 10 horizontal slider in each window opening with a good cavity to reduce noise egress. Events on the ground floor can be held at the same time as church services, without disrupting prayer.

"Aesthetically it all looks excellent, the thermal glazing on the external window does seem to make the community rooms considerably warmer when heated, as we have held small business meetings in them, however the acoustic glazing awaits fully testing its effectiveness as and when COVID restrictions allow." Peter Smith, Vicar

