



## CASE STUDY

**Sector:**  
Social housing

**Project:**  
Tower block refurbishment

**Client:**  
Bristol City Council

**Approved Window Contractor:**  
Emplas Window Systems

**Product:**  
Optima PVC-U 70mm Fully Reversible and Casement Windows

**Location:**  
Bristol

## Profile 22 windows transform citywide housing project.

Profile 22 Fully Reversible Windows were specified in the refurbishment of 15 tower blocks in Bristol

The legacy PVC-U windows, doors and curtain walling at 15 high and low-rise blocks owned by Bristol City Council at Eastville, Easton, Clifton, Redcliffe, Shirehampton and Ashton Gate needed to be replaced to improve thermal efficiency, security and aesthetics.

An experienced company was required to carry out the complex, high profile, multi-phase works required. Following competitive tender, the contract was awarded to longstanding Profile 22 Approved Window Manufacturer Emplas Window Systems.

Emplas recommended the use of Profile 22's Optima system because of its track record in social housing projects. As part of the tendering process, Profile 22 sent

an experienced specification manager to undertake a free bespoke design survey, including calculations of wind loadings and technical design drawings. It meant Emplas could clearly demonstrate the products would deliver the exceptional energy efficiency, weather protection and security required.

### Profile 22 Full Reversible Windows deliver improvements required

The Optima 70mm fully reversible window system is designed specifically for medium-high-rise applications and inaccessible locations. It provides high security locking, child resistant safety catches and achieves a weather performance of 2400pa for wind, 1500pa for water and 600pa for air.



The 70mm Optima casement system offers superb design and easy installation. The slim, chamfered shape is clean, contemporary and attractive, making it suitable for a wide range of applications, including casement, tilt and turn, French casement and French doors.

### **A complex installation meticulously planned**

The scale of the works meant installation was planned in multiple phases. In total, Emplas manufactured and installed 6,863 of Profile's 22 Optima

PVC-U fully reversible, casement and tilt and turn windows. It also installed single, composite and French doors at the council's high and low-rise flats and communal areas. Throughout, it worked closely with Bristol City Council and tower block residents to ensure works were planned to cause minimal disruption.

### **Conclusion**

The finished results have transformed the 15 tower blocks and the lives of the people who live in them.

**For more information on the Profile 22 range, please visit [www.profile22.co.uk](http://www.profile22.co.uk) or call 01952 290910.**



[www.profile22.co.uk](http://www.profile22.co.uk)