# Technical Data

**Roof trims: Cellular PVC**

## Composition and manufacture

Extruded, foamed PVC with a closed-cellular core encased in a hard, smooth outer skin. White, coloured and woodgrain finishes are available.

## Size and weight

Standard length 5m. Other lengths supplied subject to quantity restrictions. Average density: 550kg/$m^3$.

## Performance

Cellular PVC suits the exposed conditions on clad facades and at the roofline, especially as these areas are difficult and costly to access and maintain. Swish Cellular PVC requires no maintenance; it will last the life-time of the building. In excess of 60 years, and can be fully recycled at the end of its service life.

## Effect of fire

BS 476-7:1997 Class 1, BS 476-6:1989 low propagation, BS 2782:Part 1:Method 140E:1982 and ASTM D 2862-77.

## Thermal properties

Thermal conductivity (K value): 0.06W/mK. Thermal transmittance (U value): 0.93 to 1.4W/$m_2$K. Co-efficient of thermal expansion: 5 x 10-5 per °C for White profiles.

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## Sitework

Cellular PVC can be cut, drilled and routed using conventional carpentry tools. The Swish Technical Services team is able to provide full technical support for specifiers and contractors in all aspects of the design, supply and installation process. Swish is also able to work with designers and contractors to develop bespoke, decorative and non-decorative roofline elements where a commercial requirement exists.

## Environment

The BRE Green Guide (June 2008), recognises the sustainability of PVC building products. Under the Code for Sustainable Homes PVC cladding over a suitable timber framework is classed as an A+ external wall system; the highest rating available. In addition Swish Cellular PVC roofline and cladding systems qualify as Tier 3 products under Responsible Sourcing. Swish Cellular PVC offers the potential of a 60-year, maintenance-free working life, minimizing maintenance costs for social and private landlords. This low lifetime cost may free up maintenance budgets for the purchase of other $CO_2$ reduction materials.