

The Brundtland Building - External Cladding #2

Overcladding ageing buildings is a proven intervention which delivers sustainable economic, environmental and social benefits and reuses the building. The resulting building performance is equal to, or better than, an equivalent new-build.

Insulated aluminium rainscreen delivers a U value of 0.27W/m²K exceeding thermal performance standards of present building regulations.

Existing building is fully protected, deterioration minimised and the building life extended by 60 years.

The rainscreen is maintenance-free and has selfcleaning surfaces which preserve the as-new appearance.



The new building envelope reduces heating energy consumption and operational carbon emissions by 70%.

High-performance timber aluminium composite windows deliver a U value of 1.2W/m²K exceeding thermal performance standards of present building regulations.

Aluminium rainscreen is manufactured from 65% recycled aluminium. The timber in the composite windows is harvested from sustainably managed resources and the aluminium is produced using hydro-electric power. The whole building envelope is 95% recyclable at the end of its 60 year useful life.

Refurbishment preserves the building's embodied energy and carbon accumulated since first construction.

The external appearance is transformed creating aesthetically attractive, contemporary buildings enhancing the institution's brand. External refurbishment improves the internal environment and the building-user's experience and comfort levels:

- Warmer in winter
- Cooler in summer with reduced solar gain
- Better quality of natural ventilation and lighting
- Reduced noise intrusion

External refurbishment is much lower cost than demolition and rebuild external refurbishment.