



CASE STUDY

IMPERIAL COLLEGE LONDON

COOLING INTELLIGENCE

Location : London, United Kingdom

Sector : Academia

Product Featured : Silver 15 External
(10 Year Warranty)



CHALLENGE

Innovative Learning Environments Hindered by Harsh Light

As one of the world's leading research universities, Imperial College London places a strong emphasis on sustainability, comfort, and cutting-edge infrastructure. However, its glass-heavy academic buildings presented a key set of challenges-



SOLUTION

Industrial-Grade Performance with Architectural Discretion

To address these complex needs, the facilities team at Imperial selected a high-performance solar control film



RESULTS AND BENEFITS



Excessive solar heat gain in lecture halls and study zones was creating thermal discomfort during peak sun hours



Exceptional TSER helped reduce heat penetration by a significant margin, stabilizing indoor climate in key academic spaces



Significant Heat Rejection- Cooler indoor environments across labs, offices, and teaching blocks



Reduced Glare on Screens- Improved focus and visibility for students and staff in high-exposure areas



Glare through large south-facing glass panels interfered with visibility on whiteboards, monitors, and student devices



Superior glare rejection enabled distraction-free visibility for projectors, digital boards, and personal screens, **without disturbing any academic activity**



Energy Efficiency Boost- Lower cooling loads and reduced electricity consumption during summer terms



The retrofit had to respect **strict heritage preservation and design integrity**, especially in high-profile faculty buildings



External application ensured **zero impact on interior glass finishes** while still delivering top-tier energy savings with a long 10-year warranty



Non-Invasive Installation- External film applied without displacing students, staff, or equipment



Architectural Compliance- Preserved the look and feel of the glass exteriors in accordance