

The right application for an unusual job



SITUATION: With its three glass domes forming an unmistakable part of West London's skyline, the Chelsea Harbour Development combines luxury flats and premium office space with an exclusive three-story shopping mall. Unfortunately, the glass domes have proven problematic, with excessive summer temperatures making the mall uncomfortable for staff and customers. The architects sought a window film that would reduce the solar heat gain, but that was also nearly imperceptible.

SOLUTION: The architects initially approached LLumar manufacturer CPFilms about the use of externally applied film due to the fact that the domes were so hard to access, but CPFilms recommended an internally applied film (LLumar LS61 SR CDF) based on the aesthetics, performance, and durability desired. The access challenge could be met, the architects were advised, by using an accredited application specialist with experience in similar projects.

RESULTS: Due to the extreme heat within the domes, the install work started at dawn and stopped at midday, taking two weeks to complete each dome. "The work was completed on time and within budget without any problems—quite a feat considering the difficulty of the project," said architect Simon May. "Once the film was applied, the temperatures in the dome were considerably lower—which the client noticed immediately."

Building
Chelsea Harbour Development
Location
London, United Kingdom
Film
LS61 SR CDF
Type
Solar Control Film

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Performance Data

Spectrally Selective Series

LS61 SR CDF

% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorbance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter Meridian U-Value	Shading Coefficient	% Ultraviolet Rejected	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Heat Gain Ratio	% Summer Solar Heat Gain Reduction	% Glare Reduction
43	29	28	61	20	20	0.92	0.58	99.9	0.67	0.50	50	1.22	42	32

Spectrally Selective films provide a virtually invisible appearance, energy savings, aesthetics, and up to 74% visible light transmission. These films are the top choices for exclusive retail and prime commercial real estate.