

Film Type: Titan 35 Xtra

SolarZone Enables Effective Air Conditioning

Haidian Hospital | Haidian, Beijing, China

**Description:**

Hospital skylight roofing

Size of job:

1,500m²

Film: Titan 35 Xtra**Dealer:**

Beijing MCC-Hanita Architectural Technology Co. Ltd

Energy savings:

Payback period - 2.3 years

Project task:

Vast skylights dominate the Outpatients building of the Haidian Hospital in Beijing, flooding the building with light. The architects had taken into consideration the Chinese capital's freezing winters, and had wisely installed sophisticated skylights with 6mm low-e double glazing to enhance heating efficiency. But the planners had not accounted for the insufferable effect of summertime solar heat gain through the glass, with soaring temperatures, dazzling glare and massive energy consumption as the air-conditioners battled to cool the building.

The hospital management sought the advice of Beijing MCC-Hanita, Hanita Coatings' distributor in China, wondering how to effectively cool the area, without damaging or hindering the efficiency of the skylights.

Solution:

MCC-Hanita recommended the installation of SolarZone Xtra Titan 35, an extremely energy efficient solar control film, installed on the external side of the glass, leaving the internal low-e coating unimpaired for efficient winter-time performance. **The Titan Xtra film effectively rejects up to 65% of solar energy, dramatically cutting summer interior temperatures to levels that the air conditioning can effectively and cost-efficiently cope with.**

Result:

The internal conditions of the building improved dramatically, with huge summer-long reductions in glare and heat build-up. Cooling costs were cut beyond expectations, with annual energy savings forecast to be of around 105,000RMB, and reduced Co2 emissions of at least 76 tons. The project will pay for itself in energy savings within 2.3 years.