

# Reflective solar window film at middle school in Germany

Improving classroom comfort  
with smart solar protection





### The challenge

Classrooms in a middle school in Fehmarn, Germany experienced significant overheating and glare due to numerous large windows and abundant sunlight. While the school already had external sun protection, coastal winds often made these systems unreliable. A more consistent and low-maintenance solution was needed.

### The solution

The school chose Avery Dennison R Silver 35X™, a high-performance reflective solar window film that reduces solar heat and glare while maintaining a bright and natural look indoors. Its reflective surface blocks excess sunlight, helping to keep classrooms cooler and more comfortable. The film is especially well-suited for large windows and outdoor conditions, offering long-term durability and strong performance without affecting the building's appearance.

### Product used

Exterior Reflective Solar Window Film  
Avery Dennison R Silver 35X™

### The results

After the first classrooms were treated in 2023, the improvements were clear: better temperature control, less glare, and a more pleasant learning environment. Thanks to these results, additional rooms were completed in 2024 and 2025—now totaling over 450 m<sup>2</sup> of installed film. Teachers and students noticed the difference right away, and plans for expanding the installation are already underway.

### Key Features

- Reduces heat and glare for better indoor comfort
- Allows natural daylight while blocking excess sunlight
- Designed for outdoor durability and strong performance
- Scratch-resistant surface for long-lasting use
- Clean, neutral look from the inside







Before



After



Before



After

“It quickly became apparent how effective this film was. And just a few months later, additional rooms were commissioned.”

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2025-07\_33225 EN



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