

# Case Study

## Continuous Vault Skylights

East End Elementary School, Portland, ME



### CHALLENGE:

To create an exemplary new high performance 73,000 SF learning environment using the USGBC LEED-NC rating system to guide and evaluate the project.

### SOLUTION:

Architect, Stephen Blatt and Daylighting Consultant, Gunnar Hubbard decided to use a system of skylights to integrate daylight into the learning environment. In the main lobby they chose Wasco's Double Dome Barrel Vault skylight (20' x 8' 3") to create a park like room. In one of the school's two cafeterias Wasco's Double Dome Barrel Vault (8' x 4' 3") skylights provide most of the natural light. Another Wasco Double Dome Barrel Vault (16' x 4' 3") skylight provides supplemental lighting to the corridor outside the gymnasium. Four Super Thermalized Solar Energy Sky Domes (4' 7" x 4' 7") provide natural lighting to the music room and the stairwells. The result is an energy efficient design with flexible light-filled spaces.

According to Hubbard, "Studies consistently demonstrate that good daylight in schools has a positive effect on student academic performance. That's the reason we made excellent daylighting a core component of the project program."



Natural light comes into the main lobby and hallways of the East End Elementary School from the double dome continuous vault skylights above.