

Application:

## Vegetated Green Roofs

Effectively daylight buildings that use vegetative roof systems

Solatube® Daylighting Systems allow daylight apertures to be elevated above roof vegetation, enabling them to be incorporated into the rooftop architecture while minimizing and/or eliminating daytime shadowing. The unique optical properties and light transportation capabilities of Solatube Daylighting Systems also allow multiple units to be grouped together within a custom multi-unit curb cap to reduce the number of rooftop penetrations needed to daylight interior spaces.

### Objective

Effectively and efficiently daylight interior spaces of buildings that use vegetative roof systems. Apply the daylighting system in a way that harmonizes with rooftop landscape architecture and/or hardscaping while minimizing the potential shading and/or shadowing of the daylight system apertures.

### Potential Products Used

- Solatube Brighten Up® Series 290 DS Daylighting Systems;
- SolaMaster® Series 330 DS or 750 DS Daylighting Systems
- Solatube Spectralight® Infinity 0-90 Degree Tubing
- Curb cap adapters
- Optional Solatube turret extensions

### Solution

Solatube Daylighting Systems with curb cap (FCM) flashings and optional turret extensions were used to mount Solatube optical domes above rooftop vegetation. Custom, multi-unit grouped flashing curb caps may also be installed and used to group Solatube Daylighting System apertures within a single roof curb. Solatube Spectralight Infinity Tubing and Solatube angle adapters were attached to the roof assembly, and extended downward into the building interior toward the desired ceiling diffuser locations.

### Considerations

To recreate this effect, keep the following considerations in mind:

- Use traditional curb construction to provide the necessary waterproofed rooftop apertures.
- Multi-unit curb cap or self-flashing on custom curb by others must be designed and fabricated to accept and use off-the-shelf Solatube product flashings without the need for trimming or modification in any way.
- Consult a roofing professional to ensure curbs are properly fastened and weatherproofed.
- Keep top of curb cap elevated well above vegetated medium.

