



**Figure 22.25** The dwellings at the 5 MW project in the HAL district of Langedijk (NL) have a large PV roof without any perforations. This strengthens the architectural expression of the roof design. Each roof includes a 5.1 kWp BP Solarex PV system. Reproduced with permission by BEAR Architecten M. van Kerckhoven



**Figure 22.26** The canteen at the IMEC in Leuven (B) has an entrance with attractive-looking transparent modules in the roof. Reproduced with permission by IMEC

design process, priority was given to strategies that could be achieved through the design of the building itself – its form, orientation and envelope design – rather than “high-tech” strategies. Where the use of “active systems” was necessary, the design team aimed to develop more energy-efficient ways of operating these technologies.

Early consideration of PV within the design process has resulted in an aesthetically and energetically well-integrated PV system within the architectural design (Figure 22.29). Two types of PV systems are used in the building envelope. A PV array is integrated