



Office building in Mannheim

Introduction

In this modern office building in Mannheim, the façade of the central entrance area as well as the atrium were equipped with semi-transparent BIPV modules. The modules are integrated into the building envelope and serve as roofing, shading and energy supplier.

Aesthetic integration

The electrical cabling is hidden within the profiles, leaving just the glass and the PV cells visible. The semi-transparent BIPV modules generate a pleasant atmosphere inside the offices, thanks to the partial shading of the distanced cells.

Technology integration

The 149 multifunctional glass-glass modules ([eFORM clear ISO](#)) were designed in 36 different geometries and sizes, individually adapted. They are installed in a standard post and rail system. Since the modules are designed as double insulating glazing, they have excellent thermal properties. At the same time, their transparency ensures sufficient light to pass through for a light-flooded interior.

PROJECT DATA

Project type	new construction
Building use	office
Building address	Mannheim, Germany

BIPV systems

BIPV SYSTEM DATA

Architectural system	skylight, warm façade
Active material	crystalline silicon
Module transparency	semi-transparent
Module technology	glass-glass, recognizable PV, customized modules
System power [kWp]	33
System area [m²]	320

BIPV SYSTEM COSTS

Stakeholders

BIPV components producer

Sunovation GmbH
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