



Photo courtesy austriamicrosystems

**austriamicrosystems**  
**200mm Semiconductor Facility**  
**Unterpremstaetten / Graz, Austria**



**Case Study**

**INTEC International Construction  
Consultants GmbH & Co. KG**



Aerial view new fab & office building

## Concept

New construction of a 200mm wafer fab for austriamicrosystems in Unterpemstaetten near Graz.

A two-level fab consisting of:

- A sub-fab with pipe rack level above it.
- Cleanroom level with circulating air return area and plenum in the roof truss area including 4 make up air units.

Technology generation of 0.13 $\mu$  possible.

Integrated support areas ( two levels ) with inspection facilities and office rooms near the production area.

## Location & Features

The new building is located on company grounds in a castle park in Unterpemstaetten, south of Graz in the province of Styria, Austria. The fab building which stands alone, runs parallel to the A2 highway.

Four open staircases which are visible from the outside and built directly into the facade provide access to the individual levels. A partial cellar together with an under ground medium tunnel and a pipe bridge connect the new building with the old.

The company grounds are large enough to allow for future development towards the north.

## INTEC Services

INTEC was awarded the contract for consultant and client representative for both project & commercial management by SIBC Munich. Our scope of works included general quantity surveying, budget- and cost control, claims- and change order management, bank reporting, weekly and monthly cost & construction reporting to the client.

We were also involved in tender negotiating & contract awards, the reviewing of work packages, reviewing & controlling the work schedule.

The project was handed over to the client after 11 months due to the tight schedule and flexible project management.

Initial costs were kept within & in fact below the stringent budget.

## Project Data

Total site area:	184.000 m <sup>2</sup>
Other building and support areas:	
• Fab and support	15.000 m <sup>2</sup>
• Office	2.000 m <sup>2</sup>
• Cleanroom	3.700 m <sup>2</sup>
• Waffle-table	2.600 m <sup>2</sup>
Grid:	4.80 m x 4.80 m

## Milestones

Groundbreaking:	07.07.2000
Start foundation work:	01.08.2000
Building water tight:	30.11.2000
Ready for Equipment:	15.06.2001
Ready for Process:	19.09.2001
Ready for Production:	01.01.2002

## Total Investment

EUR 220 Million ( building & equipment )  
Design & Build Contract with a Guaranteed Maximum Price ( GMP ) & open book procedure.

## Client

austriamicrosystems AG  
Unterpemstaetten / Graz, Austria  
www.austriamicrosystems.com

## Project & Commercial Management

I N T E C International Construction Consultants GmbH & Co. KG for SIBC, Munich

## Project Development & Management

SIBC, Siemens Industrial Building Consultants Munich

## General Contractor

Siegle und Epple GmbH & Co. KG  
Stuttgart

## Architects & Engineers

Achammer Tritthart & Partner (ATP)  
Innsbruck, Austria

Siegle und Epple GmbH & Co. KG  
Stuttgart



View of the pipe bridge for heating, cooling and process gases.

Photos courtesy of austriamicrosystem AG

## INTEC

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