

## CONFISERIE FELICITAS GmbH Hornow-Wadelsdorf (Germany)

### NEW BUILDING

**Client:** Felicitas Chocolatier GmbH, Hornow-Wadelsdorf

**Architects:** Dipl.-Ing. (TU) Dirk Böhme, Cottbus

**Our services:** Full structural design  
Structural fire protection  
Energy Saving Ordinance (EnEv)  
Health and safety coordination (SiGeKo)

**Brief description:** Construction of a new production facility with a production building, visitors' gallery, storage, office and social amenities, museum, media room and sales

- building complex as a solid construction
- ground floor stiffening through the walls and floors, upper floors through cantilevering walls and columns together with the roof plate
- tight planning schedule

#### Production building

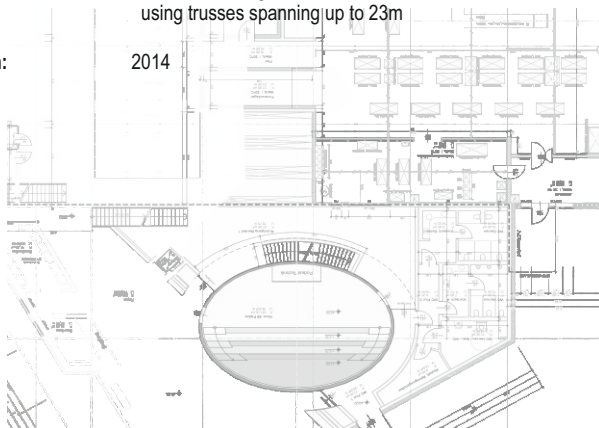
- partially 2-storey building as solid construction
- rectangular floor plan (55 m x 30 m)
- production and shipping area free of columns, wide-spanning trusses
- span of up to 30 m (butt joints)
- truss construction walkable, standing room approx. 2m for equipment and machinery maintenance
- social amenities and storage areas separated from rest by solid walls (fire protection)
- wide-spanning deep girders covering the shipping area with spans of up to 25 m
- cooling ceiling system (production rooms kept under max. 18°C) installed on the bottom flanges of the trusses
- flat-slab construction in a raster of 7.5 x 6 m
- prefabricated supports and half-finished slabs
- flat foundation
- partly high mechanical load level on the base plate due to vehicles in the storage area
- impact loads on load-bearing components considered

#### Museum

- 1-storey building as solid construction with gallery level
- triangular floor plan with sides of 30m in length
- media center shaped as a cocoa bean as wood-skeleton structure
- column-free, cantilevering reinforced concrete roofing over the entrance area using trusses spanning up to 23m

**Completion:**

2014



Pictures / Illustrations: ProfessorPfeiferandPartner PartGmbH, Dipl. Ing. (TU) Dirk Böhme, Cottbus, Confiserie Felicitas/ Florian Bröcker