Toppan Hall is a new concert hall constructed in commemoration of the hundredth anniversary of foundation of the Toppan Printing Co. Ltd in Tokyo in October 2000.

The hall was designed mainly as a chamber music and recital hall. It has a sloped floor with 408 seats in a rectangular space.

One of the problems in the planning stage was the sound isolation between the hall and the Printing Museum, located just under the hall. To solve the problem the entire hall was supported by floating structures.

In order to meet the requirements of various styles and sizes of concerts, as well as occasional ceremonies and lectures, variable absorption panels were mounted on both upper side walls. The reverberation time is changeable from 1.1 to 1.4 second with full audience. The wall around the stage and audience is made with wooden ribs in order to scatter sound reflections.

### BUILDING DETAILS AND ACOUSTICS DATA

- **Location**: 1-3-3 Suido, bunkyo-ku, Tokyo 112-8531, Japan
- **Tel**: 03-5840-2211
- **Seating Capacity**: 408
- **Room Volume**: 3,700 CM
- **Surface Area**: 1,700 SM
- **Stage Area**: 95 SM
- **Reverberation Time (Mid-Frequency)**
  - Unoccupied: 1.3 sec - 1.6 sec
  - Occupied: 1.1 sec - 1.4 sec
- **Finishing Materials**
  - Ceiling: Glassfibre reinforced cement panel, 3 layers of gypsum board (8 mm x 3)
  - Lower Wall: Wooden lattice work + 3 layers of wooden surfaced gypsum board (8 mm x 3)
  - Upper Wall: Variable absorption panel
  - Floor: 33 mm wooden board on concrete
  - Seat: Upholstered
  - Miscellaneous: Variable absorption panel
- **Noise Level**: NC-15
- **Total Cost**: ¥ 25,000 Million JPY (approx.)
- **Total Floor Area**: 54,219 SM
LONGITUDINAL SECTION

TRANSVERS SECTION

PLAN

VARIABLE ABSORPTION PANEL

VARIABLE ABSORPTION PANEL (OPEN)

VARIATION OF REVERBERATION TIME