KONRAD WACHSMANN Frankfurt an der Oder, Germany 1901-1980 Los Angeles CA

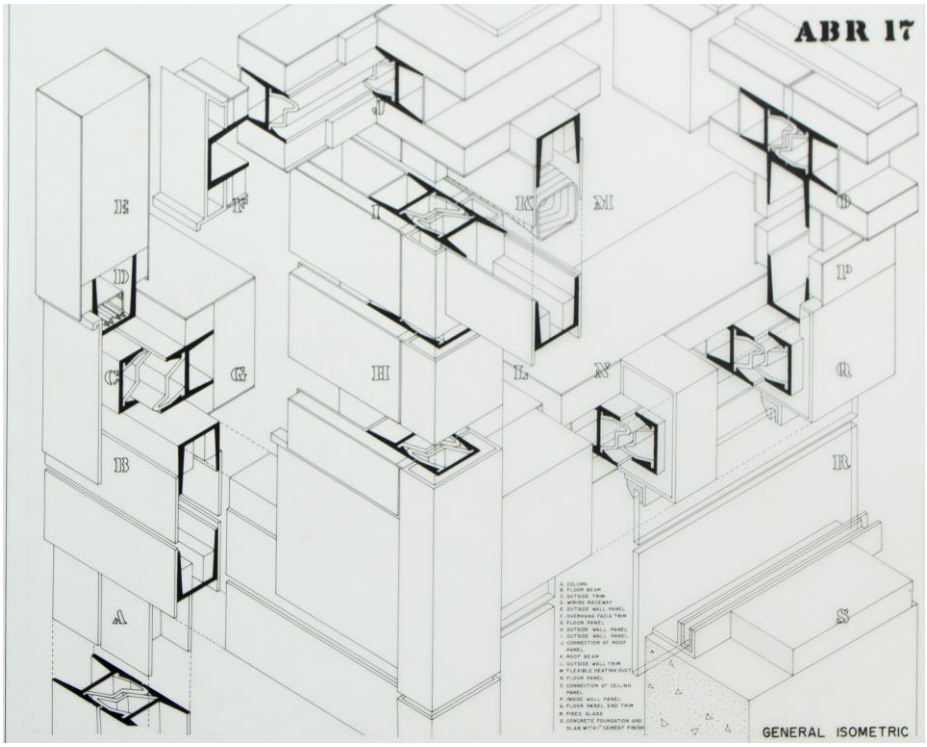
Advanced Building Research ▪ Fourteen Students of the Institute of Design ▪ 7th Semester 1951

Harold Andrews, Peter Bilder, Robert Burris, Richard Condon, Walter Conner, Robert Genchek, Daisy Igel, Richard Mazer, Yoshio Nakazawa, Rubin Shatavsky, Roscoe Smith, Walter Sugasawara, Roger Youngs and Violet Ward developed a system of building construction shown on the following pages under the supervision of Professor Konrad Wachsmann, Director of Advanced Building Research, a division of the Institute of Design. The demonstration includes all details of the various elements, the necessary stress calculations, and an application to a given structure.

The wall panels consist of extruded aluminum profiles, a honeycomb paper core entrenched with foaming plastic covered by a permanent-finish stressed skin of plastic. The floor and ceiling-roof panels have an aluminum skin. The various panel elements are connected continuously throughout each joint. Since no filler strip is required there is only one joint line. Mechanical equipment, wiring, plumbing, and heating is an integral part of the whole. The flexibility of the system, designed on a 40 inch module is unlimited.

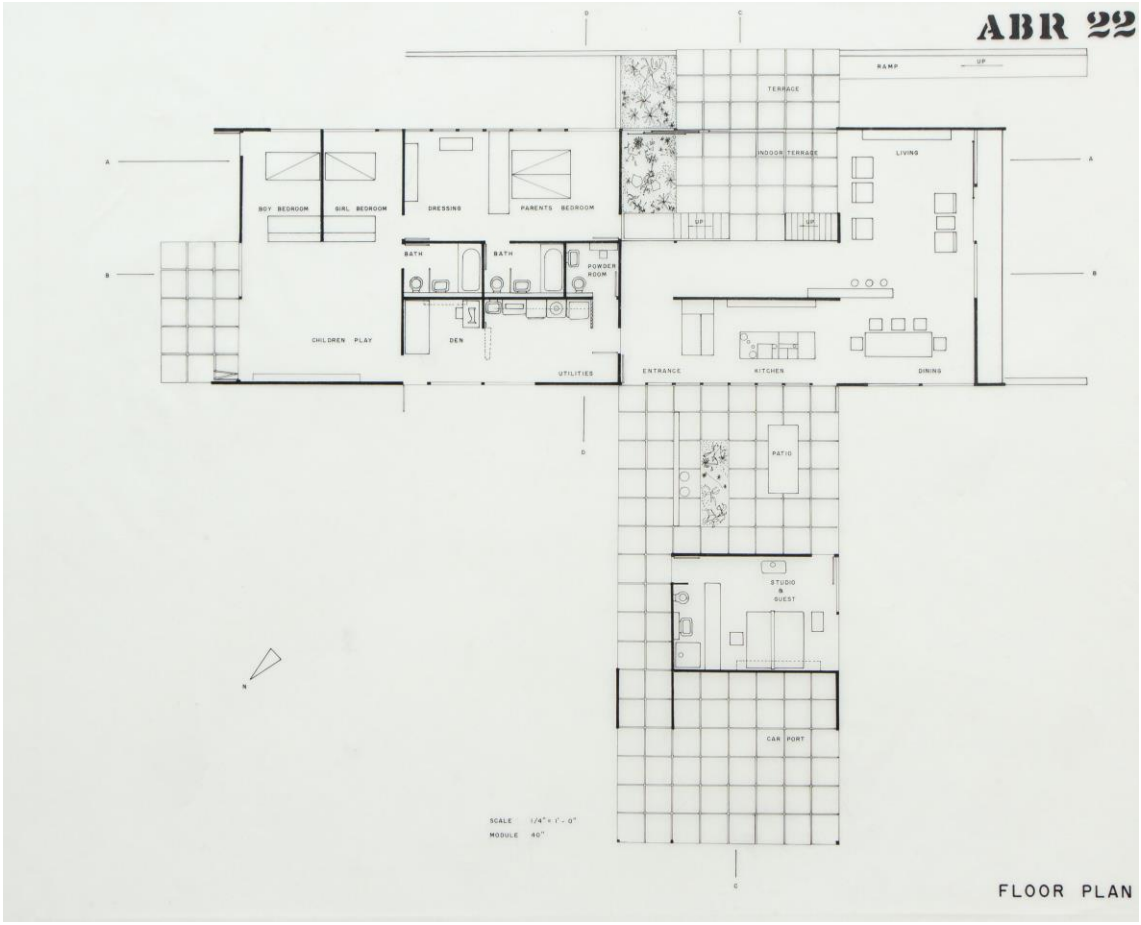
This method of construction has been developed to use new synthetic materials which are scientifically controlled. The system utilizes a machine production process yielding building elements having the highest performance standards of quality, precision, strength, insulation, lightweight, and durability.

A selection of the project's 36 drawing sheets are illustrated below.



Isometric of extruded aluminum building components

ABR 22

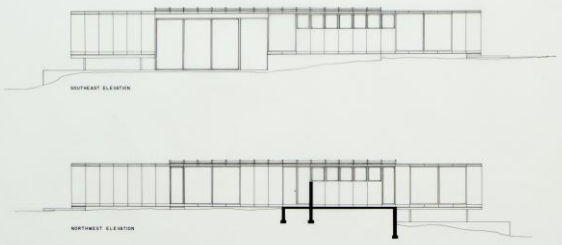


FLOOR PLAN

ABR 32

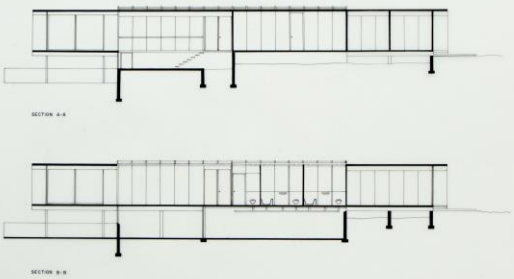
ENTRANCE

ABR 33



ELEVATIONS

ABR 31

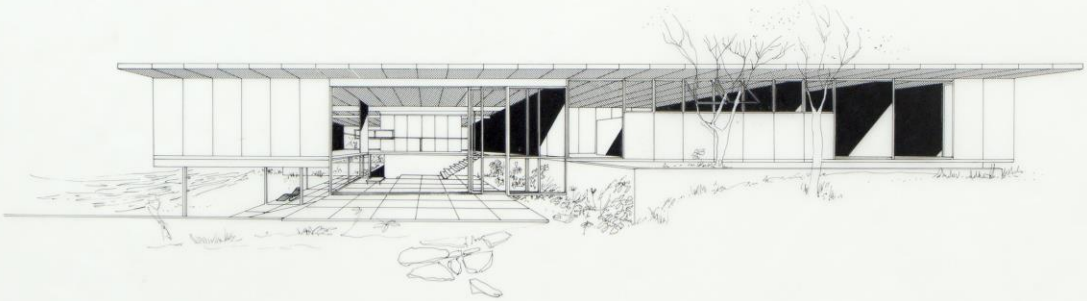


LONGITUDINAL SECTION

ABR 2S

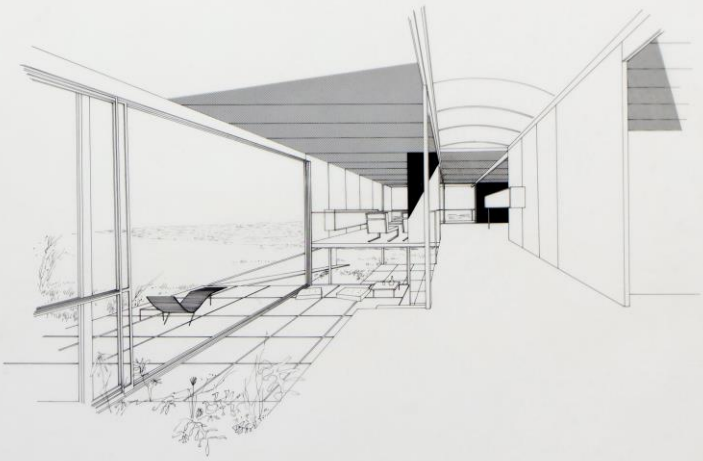
PATIO & OUTSIDE DINING

ABR 34



GARDEN TERRACE

ABR 35



LIVING ROOM

THE LOGGIA UNDER THE HOUSE