

STANFORD UNIVERSITY BING CONCERT HALL

STANFORD, U.S.A
2013

**NAGATA
ACOUSTICS**

Acoustic Consultant:	Nagata Acoustics
	Robert F. Mahoney and Associates
Architect:	Ennead Architects
Owner:	Stanford University
Construction Cost:	\$ 111.9 million (U.S.)

The acoustical design of Bing Concert Hall was achieved in close collaboration with Stanford University and Ennead Architects.

The 842-seat concert hall was designed in an arena style to engender exceptional acoustical and visual intimacy between performers and the audience. The natural acoustics of the hall is in a large part determined by its interior geometry. In a collaborative effort with the University and Ennead Architects, the hall's geometry was shaped with the aid of computer simulation and validated using acoustical scale model testing. Interior materials of the hall were selected carefully to optimize sound characteristics. In order to accommodate diverse types of performances, a variable acoustic system was introduced in the perimeter of the auditorium as well as the stage area of the concert hall.

BUILDING DETAILS AND ACOUSTIC DATA

Location Stanford University,
Stanford, California, U.S.A.

Building Size 10439.1 m²

Concert Hall:

Seating Capacity 842

Room Volume 17,000 m³

Reverberation Time (Mid-Frequency)

Unoccupied 2.6 sec

Occupied 2.4 sec

Finish Materials

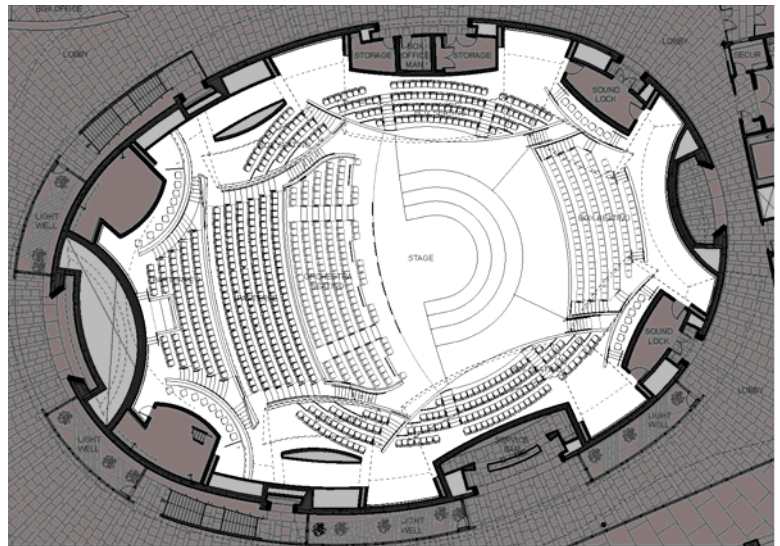
Ceiling : Cement+FRP+Sand-blast

Walls : Cement+FRP+BASWaphon 407 Base,
GFRC+Wood Rib

Aud. Floor : Beech and Concrete

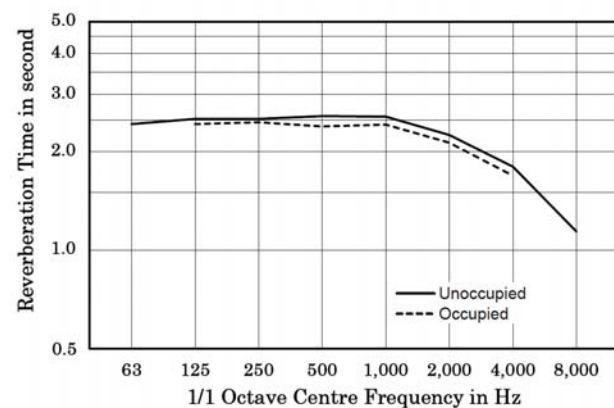
Stage Floor : Alaskan Yellow Cedar

Noise Level: NC-15

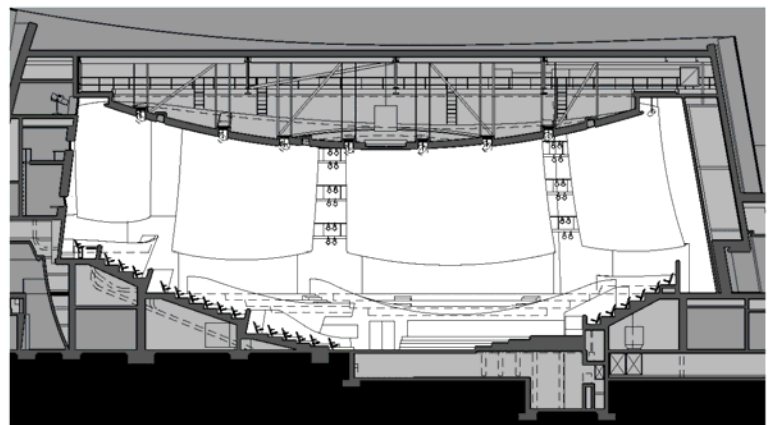


0 10 40 80

PLAN



REVERBERATION TIME



0 10 40 80

LONGITUDINAL SECTION

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