

Acoustics Consultant:	NAGATA ACOUSTICS, Inc.
Architect:	Shibataki Architectural Firm Co., Ltd.
Owners:	City of Asahikawa
Theatre Consultant:	Theater Work Shop
Sound & Communications:	NAGATA ACOUSTICS, Inc.
Construction Cost:	¥ 8,000 Million JPY

Asahikawa City Taisetsu Crystal Hall that opened in September 1993 is a cultural facility in ASAHIKAWA City, which is the second big city in Hokkaido. The building contains a concert hall, an international conference hall and a museum. The name of the hall, "Taisetsu Crystal" symbolizes the popular mountain in Hokkaido and crystal of the ice.

The concert hall has 597 seats on the ground floor in a shoe-box space. As is typical of a concert hall in a local city in Japan, the hall is expected to be used for various performances besides classical music.

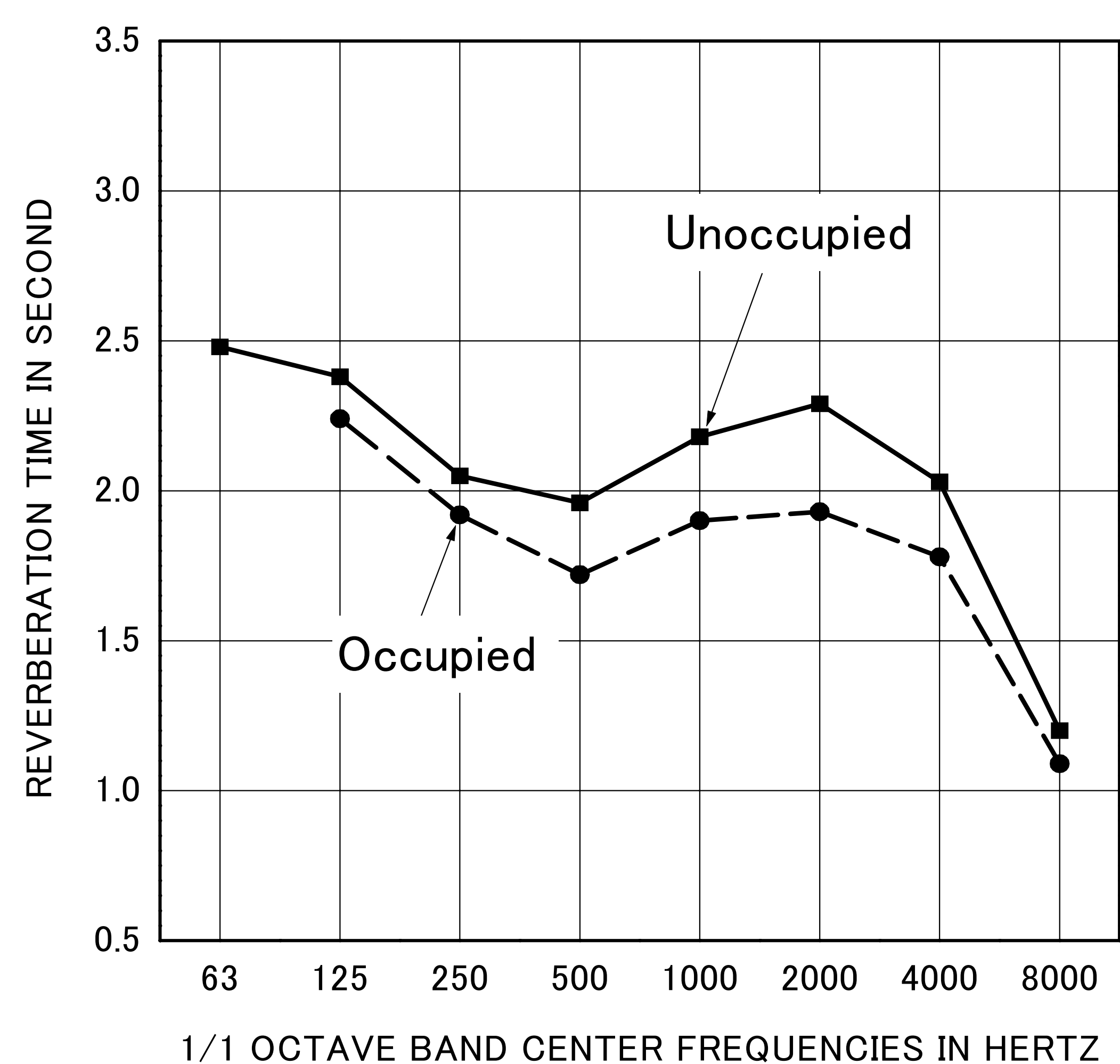
Except for the gypsum plaster boards used on the wall of the upper part of the hall, natural wooden panels 48mm thick are used on the most of the sidewalls in the hall. A sense of intimacy is enhanced by the soft and warm touch of wood that envelops everyone.

A variable absorption system using retractable curtains is installed on the stage back wall and the upper part of the sidewall of the second floor.

The absorption curtains are designed for use during rehearsals to compensate for the large reverberation variance between an empty and full hall, and when the hall is used for a lecture or a performance using electric voice amplification. The reverberation time is adjustable from 1.4 to 1.7 seconds with full audience.

BUILDING DETAILS AND ACOUSTICS DATA

Location	3-7 Kagura Asahikawa-City Hokkaido, Japan
Tel	00166-69-2001
Seating Capacity	600 seats
Room Volume	6,800CM
Surface Area	2,500SM
Stage Area	250SM
Reverberation Time (Mid-Frequency)	
Unoccupied	2.2 sec
Occupied	1.9 sec
Finishing Materials	
Ceiling	: 2 layers of gypsum board (12.5mm × 2)
Wall	: plywood 48 mm thick
Floor	: flooring block
Seat	: Upholstered
Miscellaneous	: acoustic curtain
Noise Level	: NC - 15
Other Facilities	: International Conference Hall Museum
Total Cost	: ¥ 8,000 Million JPY
Total Floor Area	: 9,700SM

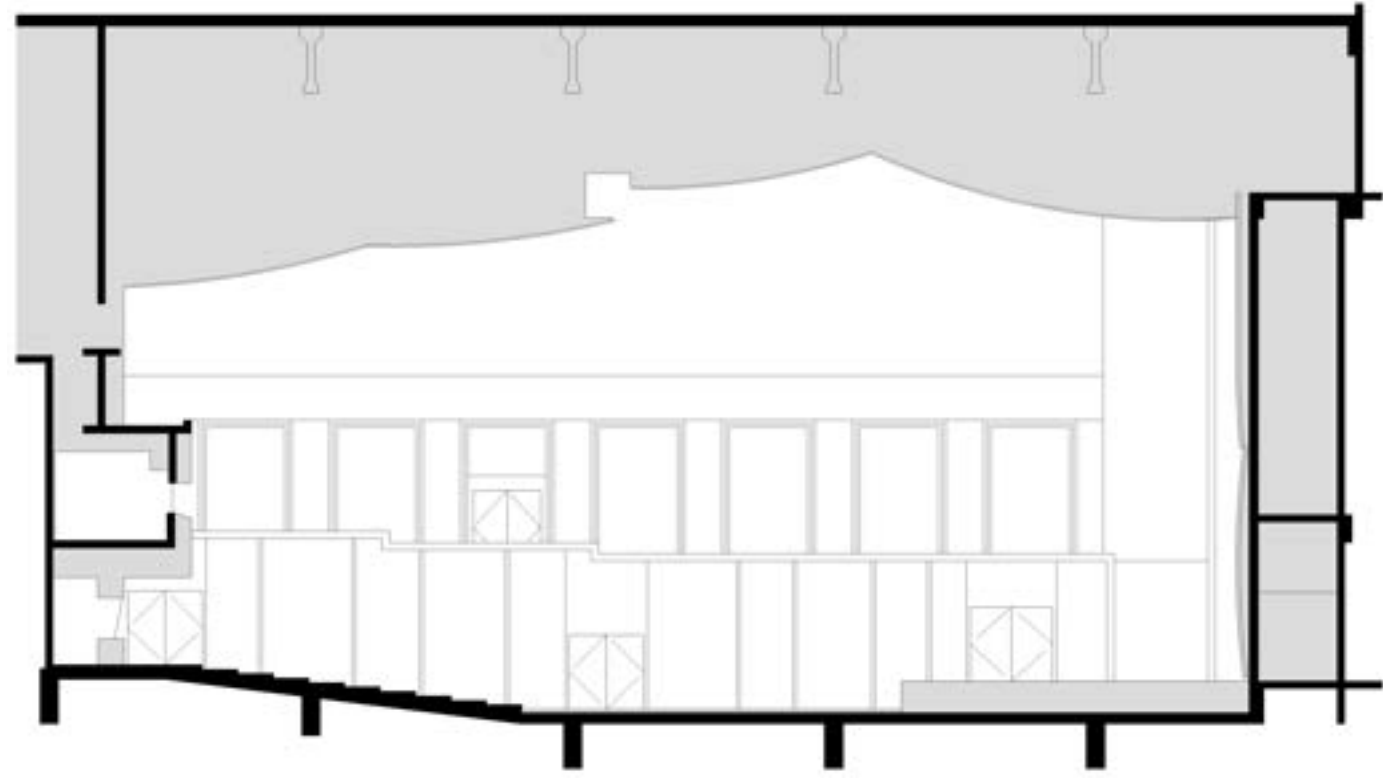


REVERBERATION TIME

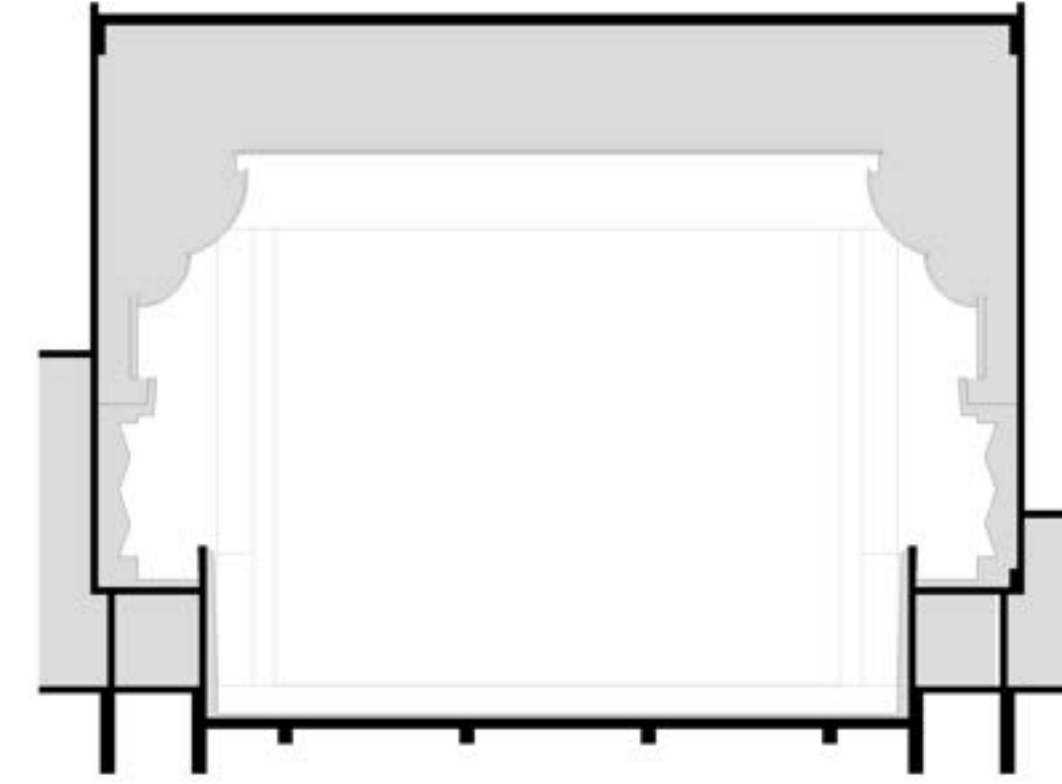
ASAHIKAWA TAISETSU CRYSTAL HALL

ASAHIKAWA, JAPAN
1993

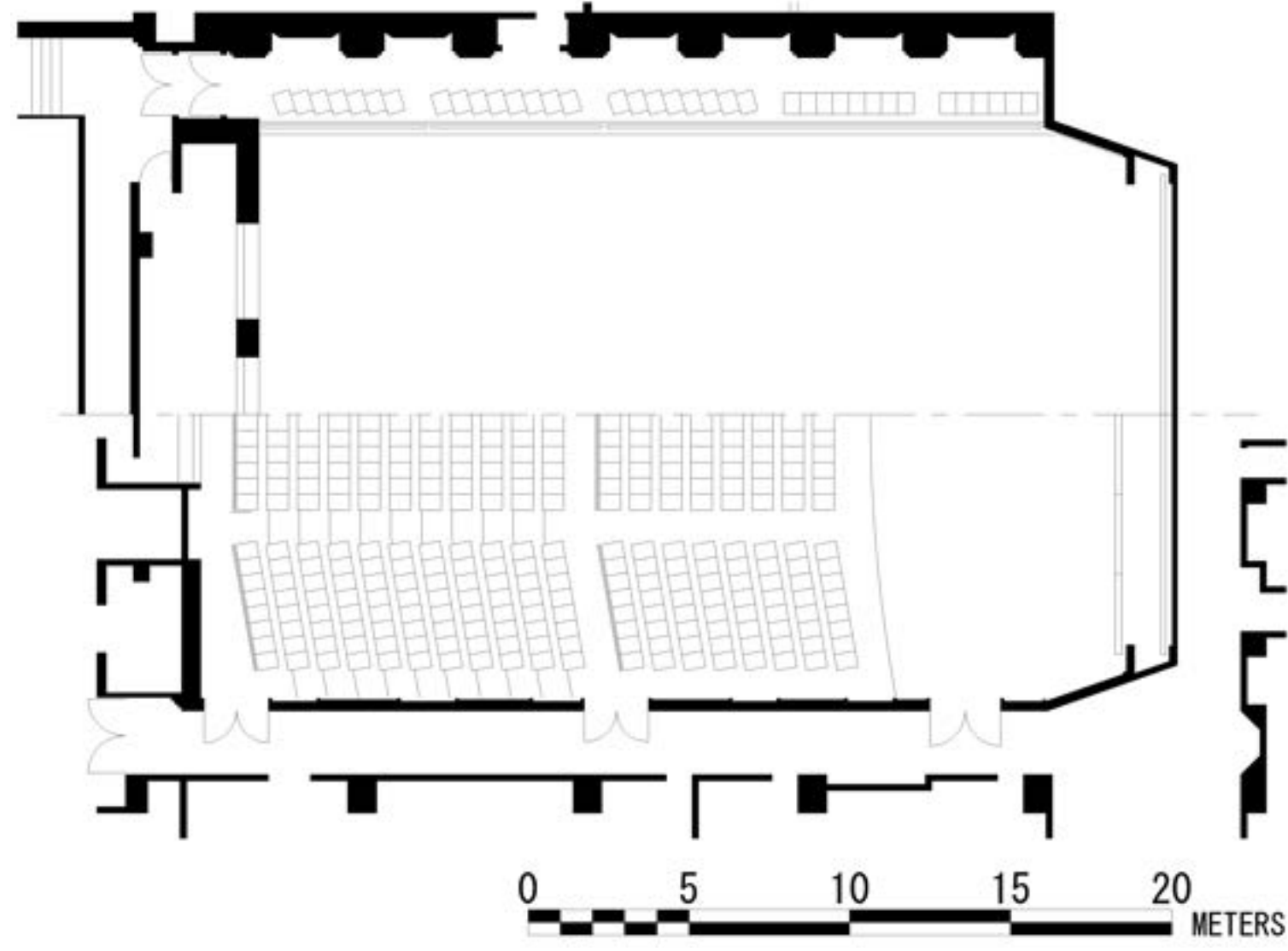
NAGATA
ACOUSTICS



LONGITUDINAL SECTION



TRANSVERS SECTION



PLAN

