

CHAMBER HALL, MUSEO DEL VIOLINO

CREMONA, ITALY
2013

NAGATA
ACOUSTICS

Acoustic Consultant:

Nagata Acoustics

Architect:

ArkPaBi: Architetti Palú e Bianchi

Owner:

Museo Del Violino

The generosity of local entrepreneur Giovanni Arvedi, through his Arvedi-Buschini Foundation, has provided the city with a new home for the several violin collections in the city. As a major part of the new Museo del Violino, a chamber hall with approximately 460 seats is intended to host concerts on the historical instruments as well as the instrument auditions for the violinmaking competition. The new hall is being inserted into the former gymnasium of the Palazzo dell'Arte, designed in the late 1930's by the Italian Rationalist architect Carlo Cocchia. The dimensions of the original gymnasium were approximately 36m long, 14m wide and 10m tall. To give an ideal room air volume, the decision was made to excavate below the existing floor of the room to increase the ceiling height, resulting in a ceiling height of 14m above the stage. The expectation that the hall is only to be used for solo and chamber works allowed the use of a small stage, measuring only 85m² allowing the stage to be placed almost in the center of the hall, giving more than one potential sightline for the seating. Since the majority of the hall's design was restricted by the existing walls and ceiling, the major focus of the acoustical design effort was to insert a seating layout into the room. Thus, there are seats on all sides of the oval stage, giving a large variety of views to the stage and also to other audience members. The materials palette in the hall is kept very simple: wood and plaster. The original walls and ceilings of the room are maintained with the original plaster surface, using neutral colors of white for the walls and light grey for the ceiling. The new construction is clad exclusively in honey-colored wood.

BUILDING DETAILS AND ACOUSTIC DATA

Location Piazza Marconi
Cremona, Italy

Total Building Size 6,500 m²

Seating Capacity 460

Room Volume 5,300 m³

Reverberation Time (Mid-Frequency)

Unoccupied 1.5 sec

Occupied 1.4 sec

Finish Materials

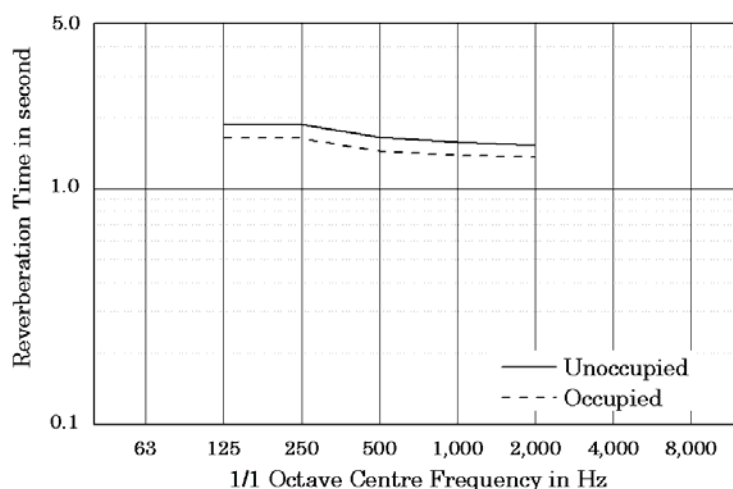
Ceiling : Painted Plaster

Walls : Plaster, Wood, Historic Doors

Aud. Floor : Wood

Stage Floor : Alaskan Yellow Cedar

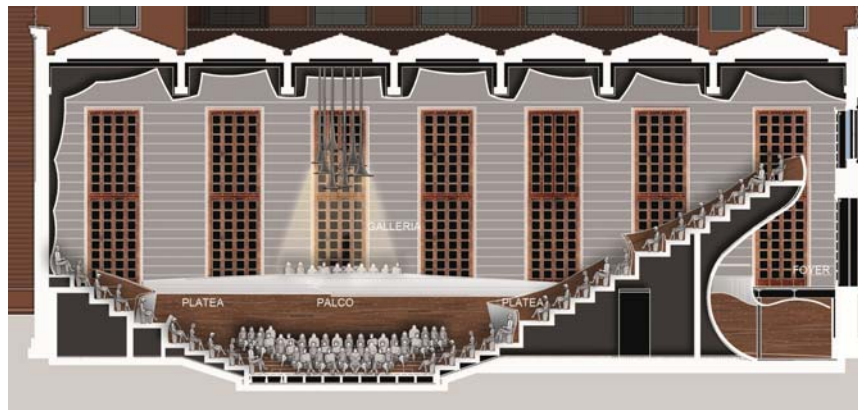
REVERBERATION TIME



PLAN



LONGITUDINAL SECTION



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Clockwise from top:

- Performance Hall
Main Audience
View
- Lower-level
passage
- Performance Hall
Rear Audience
View
- Exterior

