

Arch 242 Building Science II

Assignment - 2

Reverberation Time

Subject: Reverberation Time calculation of a concert/conference hall of your own design.

Calculation Tool: The tool is a web based tool the link of which is given below. You need to follow the instructions of the tool. At least two different material combination should be defined for the hall. The screenshots of each result should be collected and used in the report.

<http://www.armstrong.com/reverb/main.jsp>

What is in the report:

- An introduction part which states your project and the main idea of your hall design. Please use enough number of plans and sections to introduce your concert/conference hall.
- A main part which includes all the calculation steps (please step by step explain how you do the calculation) and results without any interpretation.
- A discussion and conclusion part that includes your own idea about the results. Please indicate your own comments and the reasons of RT differences among the results that you gathered.

Deliverables: A report minimum 1000 words.

Due Date: 15 May 2017

Grading: 10 points possible

Time and Effort: 15 minutes calculation, 40 minutes to report