EVERYTHING IS ACOUSTIC



OCTOBER 29, 2019 3:30pm-4:30pm

OBJECTIVES & OVERVIEW EVERYTHING IS ACOUSTIC

LEARNING OBJECTIVES:

- · Provide a greater understanding of acoustic product specifications and details.
- . Offer the ability to directly compare the basic principles of acoustic lighting to more familiar treatment methods, such as wall panels or hanging baffles.
- . Explain the benefits and misconceptions of using acoustic materials and products.
- Educate on how to apply acoustic treatments to current or future designs. .

OVERVIEW:

1. INTRO / THE BEGINNINGS

- Video segment: 5 minutes, 25 seconds; Discussion segment: 2 minutes
- General introduction to history of acoustics and mystery of Riverbank Acoustical Laboratory - How have current acoustic trends changed in terms of designing spaces and what needs to be cons n spaces fo ptimal sound

2. SABINS VS. NRC

- Video segment: 2 minutes, 39 seconds; Discussion segment: 2 minutes - Ideal reverberation time in spaces for communication
- Difference between Sabins and NRC

3. ROOM 'O' (REVERBERATION VS. ANECHOIC)

Video segment: 10 minutes, 15 seconds; Discussion segment: 5 minutes - First-hand look into a reverberation chamber, and discussion of the be conditions for C of a material ting the - Demonstrates the properties of an anechoic chamber, and how it is best or testing the tox otion of objects - Discusses high and low frequencies at the same scales as architectural sign - Introduces the idea of configuration of acoustic materials rate han just insidering materials themselves

4. CASE STUDY - TWO BEERS BREWING CO.

Video segment: 3 minutes; Discussion segment: 2 minu Seattle, WA before and after acoustic application in the space - Shows the conditions in the tasting room at eers B - Displays tested reverberation time before and after

5. LAB TESTING - ELMA, WA

Video segment: 2 minutes, 30 seconds: cussion segmen 2 minutes - Discusses the use of labor tory testing etermine the operties of systems and objects to be placed in any given space - Talks about some history o. e facil

6. MATERIAL CONFIGURATIN & LIGHTIN.

Video segment: 2 minutes, 40 secon Discussion segment: 5 minutes - Discusses the concept that everythin s acoustic in some way, but the overall sound of a space will be determined by the total composition of materials and surfaces within it - Reviews best practices for combining lighting and acoustics, and their inherent differences - Goes over how a material can be manipulated to take on different acoustic properties

7. CASE STUDY - OFFICE SPACE

Video segment: 3 minutes, 40 seconds; Discussion segment: 4 minutes - Explains the speed of sound, and how sound reacts to surfaces and different spaces - Clarifies what is being determined when testing for reverberation time

8. CASE STUDY - PORTAGE BAY CAFE / CONCLUSION

Video segment: 7 minutes; Discussion segment: 5 minutes -Shows the conditions in the tasting room at Portage Bay Cafe in Seattle, WA before and after acoustic application in the space -Displays tested reverberation time before and after LightArt



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