

Teacher`s Cafeteria in Tsinghua University

Project introduction:

Teacher`s cafeteria in Tsinghua University came into service since September 2015. The plan area of the cafeteria is about 1500? for holding 1400 people simultaneously. In a common Chinese restaurant, it is usually crowded and noisy with serious Cocktail Party Effect. People in such space are difficult to make conversation with each other and easy to fall into annoyed. According to some research, good sound absorption treatment may lower the human voice from 85dB(A) down to 55dB(A) in a restaurant. The designer of Teacher`s cafeteria in Tsinghua University combines acoustics with aesthetics to provide a quiet and elegant space for teachers to communicate and discuss during their mealtime en counterering.

Design philosophy:

The vault factor borrowed from traditional Tsinghua University buildings showing the inheritance of legacy.

Selection of acoustic material:

Acoustic sand panels perfectly corresponds with the architecture design philosophy showing simple, brief and graceful decoration style.



Acoustical treatment:

After acoustical design and computer simulation analysis, it was decided Acoustic sand panels being used on walls and vault ceilings. The finish coat is seamless. The material is class A fire rated. It comes into use right after construction thanks to VOC free of components.

Final teat:

T time at 500Hz is 0.75s. RT spectrum curve is straight and smooth.

