



- At the 2004 TRB Conference in Seattle, a full half a day was devoted to the problem of construction site noise, however, more emphasis was placed on mitigating litigation than in solving noise problems. Aside from the use of noise waivers, no solution for this problem was offered. Problems of delay and disruption in attempting to abide by the noise codes.



- No work at night in some places, no work in the daytime at other times,
- Hotels threatened litigation over noise based to a great extent on loss of reputation and loss of revenue.
- In a few projects noise problems were settled but at great expense by the contractors or city.
- In some cases, reverberation off hard street surfaces delayed normal decay of the sound and caused noise

problem in the hotels as far up as the 9th and 10th floors.

- No real mitigation solutions such as we have now were offered. The “Veil” panel, we developed for this problem will increase the effective sound blocking area of a barrier as high as 50%. These devices will use the Acoustax Panel enhanced by the Veil panel as the sound barrier. We plan on offering these installations on a lease basis in the future.
- A phenomenon occurs when a panel absorbs sound, which we call the “acoustic veil”. Caused by a combination of sound diffraction and absorption at the soft edges of the panel, it extends the effective sound barrier above and below the actual physical boundary of the panel.
- Panels are available to increase the effective height of a barrier without extensive physical change to the barrier. At the top of the existing barrier as a retrofit the VEIL can increase the barrier height, without the necessity of replacing the barrier or its foundations. This same “VEIL” phenomenon called “area effect”, can be produced at the bottom of a panel or on both sides. This would be very useful in reducing wind loads on fences and walls.



EXISTING NOISE WALL INHANCEMENT

TRUCK ENGINE AND TRANSMISSION NOISE

MACHINERY METAL TO METAL NOISES

REFRACTION FORM SOLID OBJECTS

REFLECTION FROM CONCRETE WALLS

NOISE FROM NORMAL EVERYDAY CONSTRUCTION DRILLS AND PILE DRIVERS

REFLECTIVE NOISE FROM DAYILY CONSTRUCTION

NOISE INTO HOLTELS AND ELDERLY LIVING UNITS

REVERBERATION BETWEEN WALLS AND STRUCTURES

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