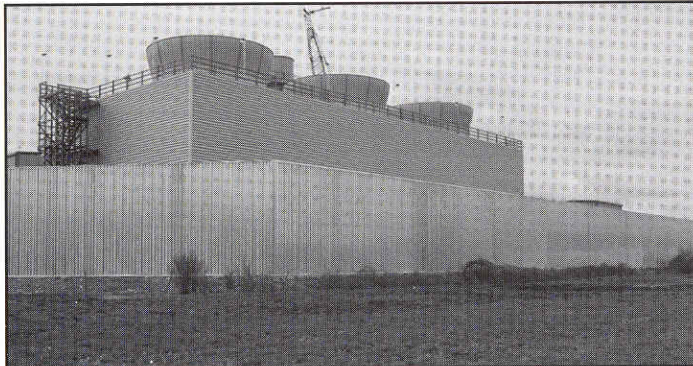


SONO-CON SOUND WALL SYSTEM

OPTIMUM BARRIER ATTENUATION LONG SPAN CAPABILITY -- RAPID INSTALLATION



FREE STANDING BARRIER

This cogeneration facility generates electrical power while drying lumber. The freestanding 25' - 0" high Sono-Con sound wall shields the nearby community from plant and equipment noise. Engineered to safely withstand winds of 95 M.P.H. The sound barrier easily withstood a series of unexpected severe winter storms with wind speeds in excess of 85 M.P.H. during the final phases of installation. The Class Two Panel System used at this site can be furnished in lengths up to 40' - 0" without the use of connectors, special supports, or joining hardware.

Sono-Con Class Two Acoustical Panels are used to construct free standing noise control barriers. Specifically, these have application where low frequency attenuation is critical such as to reduce transportation noise, transformer hum, and power generation rumble.

The Sono-Con Class Two Panels provide **sound transmission loss** values -- including those at the demanding and important low frequencies -- which match the theoretical as well as practical limits of free standing barrier attenuation.

Because of their intrinsically **high strength**, they are recommended **for use under the most adverse conditions**: Severe wind and seismic criteria are easily accommodated with less structural support than generally required by other types of acoustical panel assemblies.

Sono-Con Class Two Sound Barriers as high as 40' - 0" (12 meters) can be installed as one piece panels. Sono-Con Class Two Panels can also be oriented horizontally to continuously span 20' - 0" (6 meters). Costly footings, structural steel framework, and installation times are minimized.

PHOENIX-E Sono-Con Class Two Panel components are noncombustible, non-hygroscopic, and non-toxic. The panels are corrosion resistant, moisture resistant, and can be furnished with impermeable acoustical fill protection to guard against oil and vapor contamination.

As a standard options panels which are 1-1/2" (38 mm) thick can be furnished for applications such as equipment enclosures where available space is limited. Panels can also be furnished of stainless steel and aluminum in a variety of thicknesses to closely match a variety of structural, corrosion, and acoustical requirements.

SONO-CON CLASS TWO PANEL

OCTAVE BAND (Hz)	125	250	500	1000	2000	4000	STC NRC
TRANSMISSION LOSS	24	24	32	29	34	35	32
ABSORPTION COEFFICIENT	0.80	0.78	1.16	0.88	0.69	0.47	0.90

Sound transmission loss data for the Sono-Con Class Two Panel is determined by ASTM E-90 (Standard Recommended Practice for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions). Sound absorption data is obtained per ANSI/ASTM C-423 Standard Method of Test for Sound Absorption of Acoustical Materials in Reverberation Rooms). Both tests were conducted at an independent laboratory accredited by the United States Department of Commerce National Voluntary Laboratory Accreditation Program (NVLAP).

Standard Sono-Con Class Two Panels are 3" (75 mm) thick constructed of 16 gauge galvanized steel outer skin with 18 gauge galvanized perforated face sheet. Fibrous acoustical insulation (mineral wool or glass fiber) is installed in the continuous acoustical cells. Panels are joined with an interlocking connection and mechanically fastened utilizing self-drilling screws.

