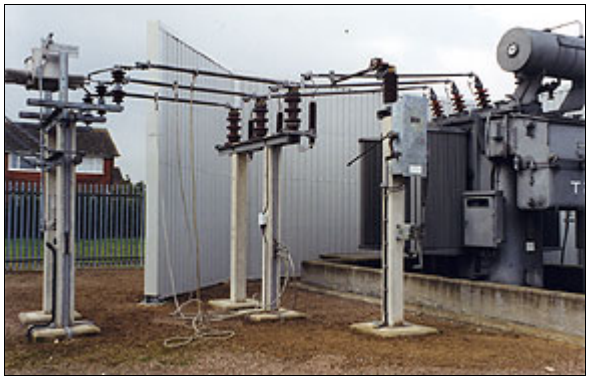
acousticabs *noise control*

Profiled Acoustic Screens



Profiled Acoustic Screen around Electricity Substation

Application

Acousticabs Profiled Screens are designed for use where a large acoustic barrier is required on a permanent basis around fixed external noise sources. The profiled acoustic system is suitable for all types of major environmental noise control. Typical applications are noise control barriers around electrical substations, air handling equipment and delivery areas for supermarkets and factories.

Description

Screens are a composite construction built around a core of noise absorbing acoustic slab loaded with high density Acousticurtain. The level of acoustic performance is tailored to suit the application by altering the core make up. The outer surface of the screen is faced with profiled steel. The inner surface is faced with APP profiled acoustic liners. The acoustic core is protected with a water repellent membrane. Depending on size and environmental conditions, screens may be supported on a concealed internal RHS frame or on exposed hot rolled structural steelwork.

Finish

Profiled sheeting and cappings are colourcoated in a choice of standard colours. APP liners are available in pre-galvanised or polyester powdercoated finish.

Acoustic Performance

Indicative acoustic performance is shown below. In practice the level of performance achieved is influenced by the position and size of the screen in relation to the sound source and to the measurement point.

Sound Reduction Index

	Hertz:	125	250	500	1K	2K
Construction Type L:	dB:	17	21	30	40	45
Construction Type S:	dB:	14	16	21	28	35

Absorption Coefficient

Hertz:	125	250	500	1K	2K
Abs.Co.	0.60	1.00	1.00	1.00	1.00

Note

Special designs are available to provide enhanced low frequency performance in applications such as electricity substations.

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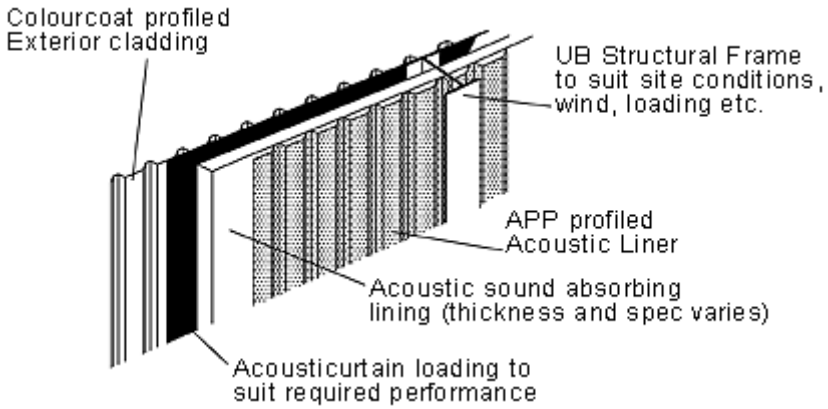
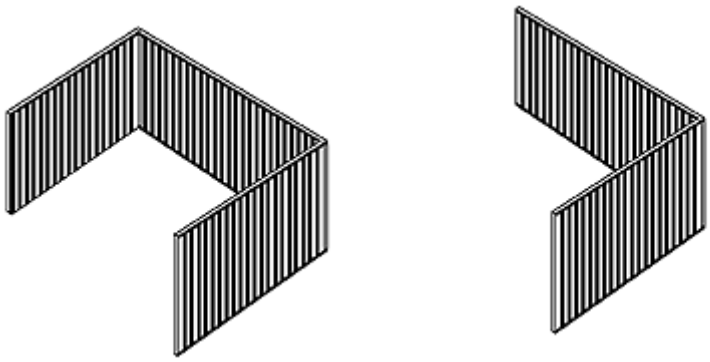
Profiled Screen



Typical Screen construction detail



Alternative screen arrangemants