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KOCH
George Koch Sons, LLC
A smarter solution. Worldwide.

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KOCH ACOUSTICAL BARRIER SYSTEM

The Koch Acoustical Barrier System is a lightweight, sound-absorptive modular panel system that is placed between the noise source and receiver. The system is installed outdoors on the ground or on the roof in a vertical or horizontal configuration to create highly effective environmental noise reduction solutions. In addition to engineering support, we supply everything you need from support steel, doors, openings, flashing, fasteners, transportation to assembly.

Koch's unique roll-forming coil processes enable fabrication of panels up to 22 feet, saving installation time and costs. Construction materials consist of corrosion-resistant galvanized and galvanized steel and non-adsorbent, non-combustible mineral wool for outdoor exposure. Our baked on high scuff and abrasion, corrosion and chemical resistant powder coat paint finish is resistant to fading, cracking, peeling and marring.

Through decades of experience and product development, the Koch Acoustical Barrier System often exceeds customer expectations in most selection criteria including sound attenuation, appearance, cleanability, abuse resistance, stability, cost, and ease of installation.

Uses and Applications

- Rooftop HVAC Equipment
- Power Generation
- Utility Transformers
- Gas Compression Stations
- Engine Generators
- Outdoor Amphitheater
- Waste Water Treatment
- Manufacturing Facilities
- Salvage Yards
- Transportation: Highway, Airport, Rail
- Industrial Exhaust Fans and Stacks
- Loading Docks

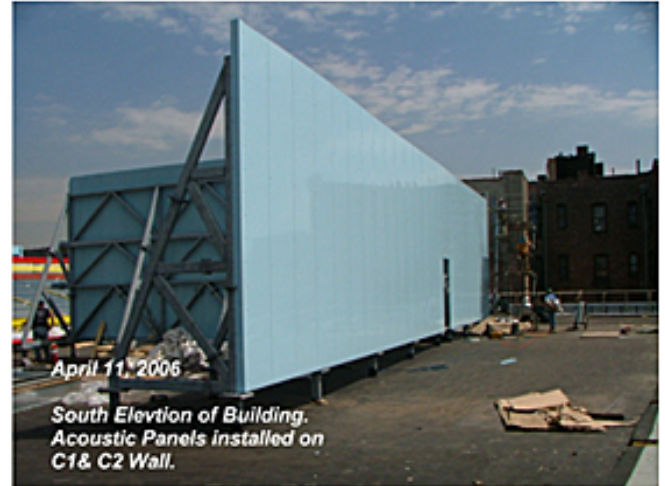
Advantages

Finest Appearance

- Features tongue and groove interlocking modular panels
- Koch's 33" wide acoustical panels complement commercial architectural insulated panel systems

Superior Finish and Corrosion Resistance

- High-scuff, abrasion- and weather-resistant baked on polyester powder coat finish is available in any color
- Perforated sheets are coated on both sides to ensure precise coverage
- Powder coat finish is protected during shipment and assembly with PVC wrap
- All material is hot dipped galvanized and galvanized steel
- Panels are self-draining and acoustical fill is non-adsorbent



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Advantages

Quick, Lowest-Cost Installation

- Features fewer components due to tongue-and-groove interlocking seams which eliminates separate "H" joiners
- Large, 33" x up to 20'-0" long panels are produced as a result of unique roll-forming processes
- Truckload projects are packaged in lift-sized groups on open-top trucks for easy overhead crane or over-the-side forklift

Superior Service

- AutoCAD approval prints, submittals and final assembly drawings are furnished with every project
- Provides unmatched engineering technical expertise and project management support

Superior Performance

- Sound reduction and absorption coefficient values are provided by Riverbank Acoustical Laboratories, the best independent source of valid acoustical data

Material Specifications:

Panel Exterior	18-gauge galvanized steel
Panel Interior	22-gauge galvanized steel perforated 3/32" diameter round holes on 3/16" staggered centers
Panel Frame	18-gauge galvanized steel
Acoustical Core	Mineral wool that is noncombustible, inert, mildew resistant, non-settling and features a flame spread of 15 and smoke developed rating of 0, per ASTM Standard E84
Module Width	33"
Panel Joint	Interlocking tongue and groove
Panel Thickness	4"
Length	16'-0" standard maximum when factory powder coat finished 22'-0" standard maximum when not factory finished
Colors	188 Standard RAL Colors
Accessories	Flashing, doors, windows, fasteners, support steel, AutoCAD drawings
Options	Other gauges of steel, custom widths, custom color matches and finishes



Acoustical Performance

Frequency (Hz)		63	125	250	500	1000	2000	4000	8000
4" Thick STC 42 Panel									
Transmission Loss	STC 42	21	21	30	41	52	59	64	67
Absorption Coefficient	Nrc 1.0	.18	.75	1.02	1.07	.98	.89	.80	.86

All Tests by Riverbank Acoustical Laboratories