



KOCH

George Koch Sons, LLC

A smarter solution. Worldwide.



GEORGE KOCH SONS

Acoustical Noise Enclosures

KOCH acoustical noise enclosures feature significant sound reduction and absorption characteristics as a result of KOCH's unique pre-fabricated modular acoustical panel construction, interlocking tongue-and-groove seams eliminate separate panel connectors and "H" joiners making the KOCH system quick and simple to assemble. Our enclosures can also be easily disassembled and reconfigured to optimize your investment as acoustical needs and requirements change.

Our *optional* baked-on powder coat finish is beyond comparison!

Panel Back	16-gauge steel
Panel Front	22-gauge steel, perforated 3/32" diameter round holes on 3/16" staggered centers
Panel Frame	18-gauge steel
Acoustical Core	4 lb./cu.ft. density 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
Encapsulation Moisture Barrier	Acoustical core wrapped with 2-mil fire retardant polyethylene moisture barrier. Mesh is provided between the wrapped insulation and perforated metal to optimize acoustical absorption.
Panel Thickness	2", 3", 4" or 6"
Length	16'-0" standard maximum when factory powder coat finished
Panel Joint	Interlocking tongue-and-groove
Paint Finish	High-scuff and abrasion-, corrosion- and chemical-resistant polyester powder coat paint finish; resistant to cracking, peeling and marring. Protective PVC plastic is provided over our high-scuff and abrasion-resistant powder coat finish to eliminate shipping and field assembly scratches. The film is designed to be removed after the enclosure if fully assembled.
Colors	RAL powder coat standard colors
Corner Panels	Shop-formed corner panels in lieu of field-flashed corners for ease of assembly, best appearance and acoustical integrity
Doors	Single- and double-leaf swing or sliding doors
Accessories	Acoustical doors, windows, openings, ventilation, lighting, electrical, sound attenuation tunnels, air conditioning, penetrations
Engineering	AutoCAD engineering approval and final assembly prints provided. Installation instructions and AutoCAD assembly prints are emailed prior to shipment.
Materials	Most common: G90 Galvanized, A60 Galvannealed ready for field paint or our standard powder coat offerings; Also available: Aluminized, Galvalume, 304 and 316 stainless steel, 5052-H32 Aluminum
Options	Other gauges of steel, custom widths, custom color matches and finishes

Superior Finish & Corrosion-Resistant

- High-scuff, abrasion-resistant and weather-resistant baked-on polyester powder coat finish is available in any standard 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 or galvannealed steel
- Panels are self-draining, non-absorbant acoustical fill

ACOUSTIC PANEL PERFORMANCE TESTING*

Panel Thickness		Rating	Frequency (Hz)					
			125	250	500	1000	2000	4000
2"	Transmission Loss (dB)	STC = 37	21	25	33	45	54	61
	Sound Absorption Coefficient	NRC = 1.00	0.27	0.68	1.19	1.15	1.02	1.02
3"	Transmission Loss (dB)	STC = 40	21	27	38	51	58	64
	Sound Absorption Coefficient	NRC = 1.10	0.67	1.04	1.19	1.12	1.06	1.03
4"	Transmission Loss (dB)	STC = 41	20	29	42	53	58	64
	Sound Absorption Coefficient	NRC = 1.15	0.97	1.09	1.24	1.10	1.08	1.04
6"	Transmission Loss (dB)	STC = 46	24	33	48	57	60	65
	Sound Absorption Coefficient	NRC 1.15	1.07	1.00	1.30	1.14	1.08	1.00

*All tests conducted by **Riverbank Acoustical Laboratories™ (RAL)**, an Alion Technical Center. RAL has been accredited by the National Institute of Standards and Technology (NIST) through the National Voluntary Accreditation Program (NVLAP) for selected acoustical testing services conducted in accordance with established standards.

System Features

Our modular barrier panel system is lightweight and sound-absorptive, and is placed between the noise source and receiver. The system can be installed outdoors, on the ground or roof in a vertical or horizontal configuration in order to create **highly effective environmental noise reduction solutions**. Our unique roll-forming coil processes enable fabrication of panels up to 22 feet, saving installation time and costs.

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