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



# GEORGE KOCH SONS

## Personnel Enclosures

Our personnel enclosure units feature all steel noncombustible construction with a baked-on powder coat finish. We specialize in applications that require high sound reduction, sound absorption, acoustical windows, acoustical doors and acoustical roofs.

Through decades of experience and product development, KOCH personnel enclosures exceed customer expectations in all aspects including sound attenuation, sound absorption, appearance, cleanability, abuse resistance, cost and ease of installation.

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www.kochllc.com/personnel-enclosures

# ACOUSTICICAL PANEL MATERIAL SPECS

| | |
|---|---|
| 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

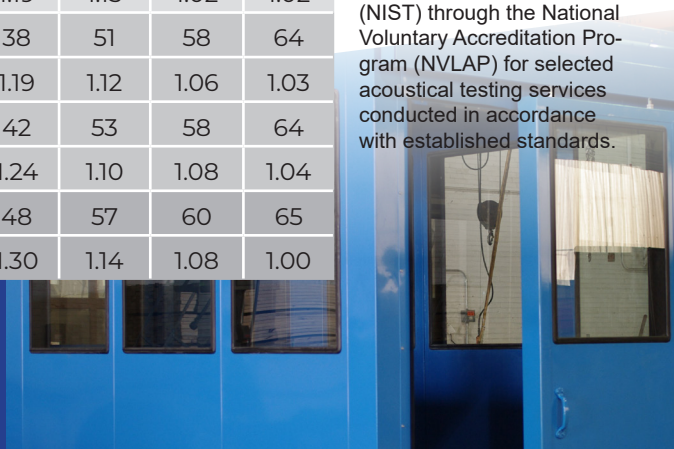
## Uses & Applications

- Conference rooms & training rooms
- Control pulpits & in-plant offices
- Coordinate measurement machine rooms
- Guard booths
- Inspection rooms & QC test rooms
- Lunch rooms
- Motor control rooms
- Music practice rooms
- Operator enclosures

## 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.



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