



DESIGN AND SPECIFICATIONS

Description

Decoustics Acoustical Baffles consist of two 1" (25mm) thick cores assembled to produce an overall 2" (50mm) thick baffle which is then upholstered.

An optional foil-type septum between the two panels is available to aid in containing sound within an area.

Baffles are available in three types: Type 10, Type 20 and Type 30. The difference between the baffles is the bottom edge detail and the baffle shape. Type 10 has a seamless bottom edge with square edges around the panel perimeter and square corners.

Type 20 has a seamless, bullnose bottom and vertical edges, square top edge, and radiused bottom edge corners.

Type 30 has a covered endcap with a square edge. Because there are two fabric segments, Type 30 baffles can be larger.

All baffles are supplied with D-ring mounting hardware for attachment to hangers. Supplied by others (chains, wire, or other type suspension components and anchors).

Note: Special clips are available from Decoustics for baffle connection to standard 15/16" (24mm) T-bar grid.

Panels

All Decoustics baffles are custom fabricated and offered in a variety of sizes, geometric shapes and finishes.

Design Considerations

Type 10 and Type 30 baffles can be butted and splined together to form continuous rows.

Type 20 baffles should be individually hung. Contact Decoustics regarding other finishes, custom designs, and spline details.

Maintenance

Refer to appropriate Decoustics "Cleaning and Maintenance Instructions" for any specific finish.

Standards, Tests and Approvals

Surface Burning Characteristics (ASTM E-84): All panel components have a Flame Spread rating of less than 25.

Note: Building code requirements may necessitate composite panel testing based on specified finish.

A panel comprised of "Class A" (Flame Spread of 25 or less) components does not necessarily produce a composite panel meeting the "Class A" requirement. Decoustics has a considerable number of composite panel tests on file.

Decoustics Baffles

Performance Data

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT
Fabric	TYPE 10: square, with seamless bottom edge	Up to 120" x 30" (3050mm x 760mm). Finish width must be sufficient to cover twice the baffle height plus twice the baffle thickness plus 2" (50mm).	Consists of two 1" (25mm) thick 6 to 7 pcf (96 to 112 kg/m ³) cores. Fabric corners are fully tailored (no exposed darting). Optional septum between the two panels is available. Supplied with D-ring mounting hardware.	Nominal 2-1/8" (54mm)	Not applicable	1.75 psf (8.55 kg/m ²)
Fabric	TYPE 20: bullnosed, with seamless bottom edge, and radiused (bullnosed) bottom and vertical edges only, and radiused bottom corners.	Up to 120" x 30" (3050mm x 760mm).		Nominal 2-1/8" (54mm)		1.75 psf (8.55 kg/m ²)
Fabric or Claro	TYPE 30: square with optional matching finished end caps. Chamfered or radiused edges without end caps.	Up to 120" x 48" (3050mm x 1220mm).		Panel consists of a 6 to 7 pcf (96 to 112 kg/m ³) density acoustically absorptive core, with a special high acoustic performance layer laminated to face 2-1/6" (54mm) overall nominal thickness.		Nominal 2-1/4" (57mm)

Mounting Methods

Only handle panels wearing clean, lightweight, white gloves during installation.

Installing contractor to supply all suspension components including ceiling anchors, hanger wire, cable or chain, fasteners, T-bar grid, and similar hardware.

Install alignment splines (where required) and adjust as necessary to maintain consistent alignment of joints and finished baffle faces, and ensure no undue stress at clip/'D' ring locations.

Do not field cut Baffles. Continuous "J Metal" top edge allows for field re-location of D ring mounting.

Acoustical Data (ASTM C423)

Baffles 48"W x 24"H x 2" thick (1220mm x 610mm x 50mm) were mounted using four different sets of spacing centers i.e. 2'-0", 4'-0", 6'-0" and 8'-0" (610, 1220, 1830 and 2440mm). The panels were mounted in parallel rows 2-1/2" (64mm) from the test surface. Absorption is shown in Sabins/unit.

Acoustical Data (ASTM C423)

FINISH	BAFFLE TYPE	SPACING	FREQUENCY (Hz)					
			125	250	500	1000	2000	4000
Fabric	Type 10 and Type 20	2'-0" (610mm)	2.20	4.70	10.30	12.70	12.60	12.40
Fabric	2-1/8" (54mm) thickness	4'-0" (1220mm)	2.50	5.70	11.70	15.20	15.60	15.00
Fabric		6'-0" (1830mm)	2.70	5.90	12.60	17.20	17.80	17.90
Fabric		8'-0" (2440mm)	2.60	6.30	12.40	17.30	17.20	17.40

Acoustic testing was performed on a panel finished with an acoustically transparent fabric.

Note: The information provided in this Data Sheet is accurate to the best of our knowledge at the time of printing. However, we reserve the right to make changes when necessary without further notification. Suggested applications may need to be modified to conform with local building codes and conditions. We cannot accept responsibility for products that are not used, or installed, to our specifications. Please refer to our website for most current data.

Note: Only handle panels wearing clean, lightweight, white gloves during installation. Follow manufacturer's printed instructions for installation as well as field cutting of panels.



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