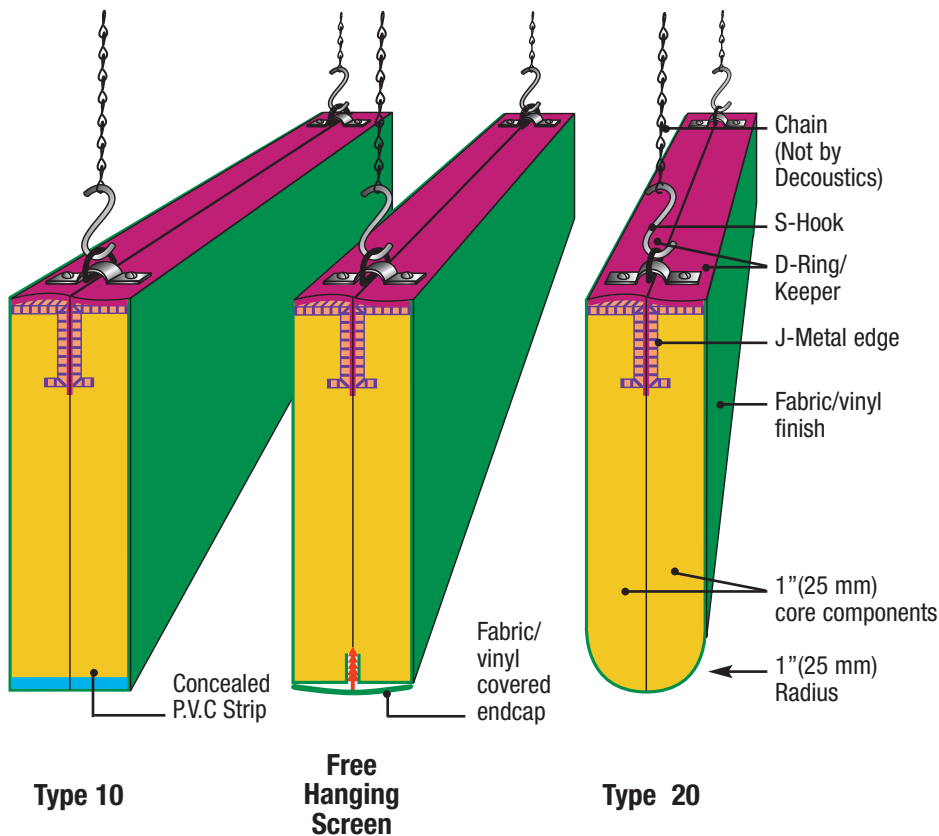


# Ceilings

## Baffles & Free Hanging Screens



### Description

Decoustics Acoustical Baffle and Free Hanging Screens consist of two 1" (25 mm) thick cores assembled to produce an overall 2" (50 mm) thickness unit 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 two types: Type 10 and Type 20. The difference between the two 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.

Free hanging screens are typically large baffles which provide both acoustical control and visual privacy where a unique form of space division is desired.

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

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

### Panels

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

### Design Considerations

Type 10 baffles and free hanging screens are available with both fabric and vinyl finishes.

Type 10 baffles and free hanging screens can be butted and splined together to form continuous rows.

Type 20 baffles should be individually hung. Type 20 baffles are available with fabric finish only. Contact Decoustics regarding other finishes, custom designs, and spline details.

### 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.

### Acoustical Data (ASTM C423):

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

FINISH	BAFFLE TYPE	SPACING	FREQUENCY (Hz)					
			125	250	500	1000	2000	4000
*Fabric	Type 10	2'-0" (610 mm)	2.20	4.70	10.30	12.70	12.60	12.40
*Fabric	and Type 20	4'-0" (1220 mm)	2.50	5.70	11.70	15.20	15.60	15.00
*Fabric	2" (50 mm)	6'-0" (1830 mm)	2.70	5.90	12.60	17.20	17.80	17.90
*Fabric	thickness	8'-0" (2440 mm)	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.

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### Maintenance

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

### Related Data

Decoustics 3-Part Guide Specification.

### 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 and Free Hanging Screens. Continuous "J Metal" top edge allows for field re-location of D ring mounting.

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

*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.*