

## **Acoustifoam CEILING BAFFLES – CSI Spec**

### **ACOUSTIC Wall panels**

#### **1.03 QUALITY ASSURANCE**

##### **A. Qualifications:**

###### **1. Manufacturer Qualifications:**

- a. Use of BASF Basotect material in the fabrication
- b. Confirmed acclimation of material prior to cutting and fabrication
- b. Prior production of material for no less than 3 years.

#### **1.04 DELIVERY, STORAGE, AND HANDLING**

A. Deliver wall paneling to project site, or fabrication site, not less than 72 hours prior to start of installation (to allow for suitable acclimation) – especially important in installations where tiles abut one another.

#### **1.05 PROJECT/SITE CONDITIONS**

A. Environmental Requirements: Installation spaces, acoustic material, and adhesive (if applicable) must be maintained at normal occupancy temperature and humidity levels (HVAC working) for minimum of 72 hours prior to installation.

#### **1.06 WARRANTY**

##### **A. Special Warranty:**

1. Décor Acoustics' Warranty: 5 years against material and workmanship when maintain in accordance with manufacturer's installation instructions.

### **PART 2 – PRODUCTS**

#### **2.01 MANUFACTURER**

Manufacturer:  
BASF  
Carl-Bosch-Straße 38  
67056 Ludwigshafen/Rhein

DÉCOR Acoustics (Distributor - North America):  
5403 Western Ave #C  
Boulder, CO 80301  
USA

Tel: (720) 449-3063  
e-mail: [info@DecorAcoustics.com](mailto:info@DecorAcoustics.com)  
Website: <http://www.DecorAcoustics.com>

- A. Acoustifoam™ CEILING BAFFLES:
  - a. Flat Edge
  - b. Sinuous
  - c. Double 'S'
  - d. Cylindrical
  
- B. Colors (select one, or multiples based on design):
  - a. 'Natural'
  - b. Standard colors (make selection)

- i. White
- ii. Red
- iii. Pewter
- iv. Khaki
- v. Deep Blue
- vi. Dark Bronze
- vii. Bright Blue
- viii. Black
- ix. Sea Grey
- x. Sand

c. 'PCC' (Pantone Custom Colored) – input/select color via Pantone code.

C. Substitutions: None Permitted.

## 2.02 MATERIALS

A. Flat Edge Baffles:

1. Size:

- a. 12" x 96"
- b. 18" x 96"
- c. 'custom' (designate size to be cut within 96" x 48" x 12" dimensions)

2. Thickness:

- a. 2"
- b. 3"
- c. 'custom' (designate thickness between 0.5" and 4")

B. Sinuous Baffles:

1. Size:

- a. 12" x 96"
- b. 18" x 96"
- c. 'custom' (designate size to be cut within 96" x 48" x 12" dimensions)

2. Thickness:

- d. 2"
- e. 3"
- f. 'custom' (designate thickness between 0.5" and 4")

C. Double 'S' Baffles:

1. Size:

- a. 12" x 48"
- b. 18" x 48"
- c. 'custom' (designate size to be cut within 96" x 48" x 12" dimensions)

2. Thickness:

- g. 2"
- h. 3"
- i. 'custom' (designate thickness between 0.5" and 4")

D. Cylindrical Baffles:

1. Size/length:

- a. 24"
- b. 36"
- c. 48"
- d. 60"
- e. 'custom' (designate size/length – up to 96")

2. Thickness:

- j. 6"
- k. 'custom' (designate thickness between 0.5" and 4")

- E. Physical Property Performance Requirements
- a. Composition: Open-cell melamine foam
  - b. Density (*per ASTM D 3574*):
    - 0.56lbs +/- 0.09 lb./ft<sup>3</sup>
  - c. Tensile Strength - min. (*per ASTM D 3574*):
    - 14 (lb/in<sup>2</sup>)
  - d. Indentation Force deflection - min. (*per ASTM D 3574*):
    - Compression at 25%: 80 (lb·50in<sup>2</sup>)
    - Compression at 65%: 160 (lb·50in<sup>2</sup>)
  - d. Thermal Conductivity - min. (*per ASTM C177*):
    - at 75°F mean = 0.25 (BTU·in/h·ft<sup>2</sup>·°F)
  - e. Sound Absorption NRC (*per ASTM C423*) – ‘panel formats’:
    1. 1” = 0.65 NRC
    2. 1.5” = 0.80 NRC
    3. 2” = 0.90 NRC
    4. 3” = 1.05 NRC
  - f. Fire-rating (*per ASTM E84*): Class A
    1. Flame Spread <25
    2. Smoke Developed <50
  - g. Service Temperature range: -40°F to 350°F

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Examine conditions to which Acoustifoam CEILING BAFFLES will be applied:
1. Store baffles out of direct UV sunlight.
  2. Avoid hanging baffles greater than 10 feet below the structural ceiling. Extensive cabling/chaining will cause Flat Edge Baffles to swing if suspended between HVAC air streams.
  3. If installing less than 1-1/2” thick Flat Edge Baffles in vertical or horizontal ceiling applications, please consult Sustainable Materials for technical assistance as it is not recommended to go below 1-1/2” thick.
  4. Store and protect Flat Edge Baffles from the elements and from damage.
  5. Suspension hardware is not to be pre-installed.
  6. Do not subject Flat Edge Baffles to critical edge lighting without first consulting Sustainable Materials.
  7. If installing metal hardware in a corrosive environment such as an aquatic center, always use 316 stainless steel corkscrews and hardware.
- B. If any of the above conditions are not met or needs attendance, coordinate with responsible entity to correct unsatisfactory conditions.

### **3.02 PREPARATION**

- A. Acclimatization: Open all DÉCOR Acoustic panel packages to allow the material to acclimate for a minimum of 72 hours prior to the start of the installation.
- B. Fix substrate if needed (as per Examination needs and those relating to the adhesive bond per the instructions of the adhesive selected for use).

### **3.03 INSTALLATION**

[Note: see specific referenced ‘Installation Instructions’ for listing of exact steps and installation procedures]

1. Flat Edge Baffles:

[Note: see: ‘ACOUSTIFOAM – FLAT EDGE Ceiling Baffles Installation Instructions’]

- a. Vertical hanging from structural ceiling
- b. Vertical hanging from joist/truss system (parallel positioning)
- c. Vertical hanging from joist/truss system (perpendicular positioning)
- d. Vertical hanging using ‘Wall to Wall’ technique
- e. Vertical hanging from C-Channel

2. Sinuous Baffles:

[Note: see: ‘ACOUSTIFOAM – SINUOUS + DOUBLE ‘S’ Installation Instructions’]

- a. Using Spray adhesive (for Ceiling or Wall applications)
  - b. Using Construction adhesive (for Ceiling or Wall applications)
  - c. Using Corkscrew hangers (for Ceiling applications)
    - 1. Vertical hanging from structural ceiling.
    - 2. Vertical hanging from joist/truss system (parallel positioning)
    - 3. Vertical hanging from joist/truss system (perpendicular positioning)
    - 4. Horizontal hanging from structural ceiling
    - 5. Vertical hanging using 'wall to wall' technique
3. Double 'S' Baffles:
- [Note: see: *ACOUSTIFOAM – SINUOUS + DOUBLE 'S' Installation Instructions'*]
- a. Using Spray adhesive (for Ceiling or Wall applications)
  - b. Using Construction adhesive (for Ceiling or Wall applications)
  - c. Using Corkscrew hangers (for Ceiling applications)
    - 1. Vertical hanging from structural ceiling.
    - 2. Vertical hanging from joist/truss system (parallel positioning)
    - 3. Vertical hanging from joist/truss system (perpendicular positioning)
    - 4. Horizontal hanging from structural ceiling
    - 5. Vertical hanging using 'wall to wall' technique
4. Cylindrical Baffles:
- [Note: see: *'ACOUSTIFOAM – CYLINDRICAL Installation Instructions'*]
- a. Using Corkscrew hangers for Vertical applications
  - b. Using Corkscrew hangers for Horizontal applications
  - c. Hanging cable from joist/truss system
  - d. Hanging cable using 'wall to wall' technique
  - e. Joining Baffles into clusters
  - f. Joining Baffles end to end

### **3.04 CLEANING and MAINTENANCE**

A. Clean and maintain in accordance with guidelines presented in Installation Guidelines.

With any questions, or for this in a digital format, contact:

Décor Acoustics  
5403 Western Ave. #C  
Boulder, CO 80301  
Ph: (720) 449-3063  
Email: [info@DecorAcoustics.com](mailto:info@DecorAcoustics.com)  
Web: [www.DecorAcoustics.com](http://www.DecorAcoustics.com)