

Ceilings

Architectural Forms

HCC - Thin



Description

Decoustics HCC – Thin composite construction is a very lightweight 3/4” (19 mm) thick panel, that is factory pre-curved to provide an artistic free form style of design. Panels are typically suspended in ceiling areas, and are suspended using as few as four supports/hangers. Finishes are applied to both sides of the panel and edges. Panels are mounted from factory located, field installed, eyebolts.

Panels

All Decoustics panels are custom fabricated and offered in a variety of types, sizes, geometric shapes, thicknesses and Decoustics proprietary coatings.

Limitations

Essentially non-accessible. Progressive removal of panels is typically necessary to access plenum space. However, limited, localized access can be accommodated if desired.

Design Considerations

Panels are typically hung in one position, however, they may be hung at an angle by adjusting the lengths of the suspension device e.g. hanger cable/chain, or rod. Dimensional tolerance of these panels is approximately +/- 1/8” (3 mm).

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: Panels were tested using Type E400 Mounting as per ASTM E795).

Acoustic test data was not available at time of printing. Please contact Decoustics for acoustic performance information.

Mounting Methods

Mechanically Mount only using installer supplied hanger cable/chain, or rods.

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

Follow manufacturers’ printed instructions for installation. Field cutting of panels is not recommended.

FINISH	EDGE OPTIONS	SIZES	CONSTRUCTION	THICKNESS	NRC	WEIGHT	COLOR
Claro or Metallo	Square edge	Up to 48" x 96" (1220 mm x 2440 mm)	Panel consists of a multi-density, lightweight internal structure, with a 16 – 20lb/ft ³ (256 – 320kg/m ³) high density integral facer.	Overall 3/4" (19 mm)	Data not available at time of printing	0.75 lb/ft ² (3.7 kg/m ²) – based on a 48" x 96" (1220mm x 2440mm) panel.	Standard White CSW-100 (Claro), Or Custom colors (Claro and Metallo)

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Maintenance

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

Related Data

Decoustics 3-Part Guide Specifications.

HCC - Thin Indoor Climate

Storage

On-site storage shall be such as to assure that all panels and associated materials are protected from damage, and storage area is climatically controlled to normal operational levels.

Installation

Prior to panel installation, the site must be free of all wet and dusty trades and the climatic conditions stabilized to normal operational levels. Panels shall be allowed to stabilize on site 24 hours prior to installation.

Normal Operational Levels

Typical Indoor Comfort Standards state a temperature range of 20°C - 27°C (68°F - 81°F), and a relative humidity of less than 60%. These would be considered as normal operational levels.

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.