

# SOUND CELL® SPECIFICATIONS

## SUGGESTED SPECIFICATION

Provide SOUND CELL® acoustical masonry units conforming to ASTM C90 with factory installed noise attenuating fillers.

## 04200 UNIT MASONRY

- 220 Concrete Unit Masonry
- Sound Absorbing Concrete Unit Masonry

## GENERAL - USES APPLICATIONS

SOUND CELL® Sound Absorbing Concrete Masonry Units are designed to be installed in all typical load-bearing Concrete Unit Masonry locations where improved sound quality is desired.

## MANUFACTURER

Provide SOUND CELL® acoustical C.M.U.s as designated on the drawings or indicated in the schedule of finishes. Units shall be manufactured by an approved licensed SOUND CELL® manufacturer. Units shall have factory installed noise attenuating fillers.

## CLASSIFICATION

Units shall conform to ASTM C90.

## SIZES AND STYLES

Provide nominal face dimensions of 8" X 16" by thickness shown on drawings from the following sizes:

SOUND CELL®	8" and 12" widths
ACOUSTADE™	8" and 12" widths

## PERFORMANCE

Units shall have an impressed surface relief to provide diffusion and improve flutter echo, standing waves and sound intensity annoyances. The SAA (Sound Absorption Average) shall be: 12" unit = .70 and 8" = 0.74. The NRC (Noise Reduction Coefficient) shall be: 12" unit = .70 and 8" = 0.75.

## STORAGE / HANDLING / PROJECT CONDITIONS

SOUND CELL® units shall be covered before and after installation to kept dry and free from contamination. Units shall be stored on level ground with no double stacking of pallet containers. Units are to be handled to protect faces and edges from chipping.

## INSTALLATION

SOUND CELL® units shall be laid in stacked or running bond with 3/8" mortar joints. Mortar joints shall be struck flush, filled and dressed on the face-side of the units, and shall be tooled, brushed, and finished tooled on the back-side of the units. Units shall be laid consistent with the best concrete masonry practices, including: full face shell mortar bedding, control joints, wire reinforcing, etc. At the transition of the SOUND CELL® units and regular, utility C.M.U.s, a 3" face-shell unit, solid top unit, or filled bond beam unit shall be utilized to ensure correct face-shell alignment and full mortar bedding. Units shall be kept clean and dry during installation and excess mortar shall be cleaned from apertures.

## PAINTING

SOUND CELL® units may be spray painted without significant reduction in sound absorption of the fibrous inserts. Due to the positioning of the insert back-and-away from the aperture, with normal spray painting techniques, there is no problem with the inserts becoming "acoustically clogged" with paint.