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Product Specifications: Acousta-Wal®

**PART 1-GENERAL**

SUBMITTAL

Submit product specifications, material test reports

and full size sample(s).

QUALITY ASSURANCE DELIVERY, STORAGE, HANDLING

Unit shall be manufactured to meet ASTM C-90. Acousta-Wal units shall be

Production shall be monitored so that the top of the delivered to the jobsite on

units shall be completely closed and edges of slots covered banded pallets. Store pallets

and ends of blocks shall be straight and clean. in single-stacks on level ground and

Type IV units shall have fillers as supplied by cover with waterproof covering to

manufacturer, inserted in the cavities at the block to protect the blocks from inclement

plant. Filler material shall be cut accurately to size weather. Handle blocks carefully to

and installed as recommended for the type of avoid breakage and damage to the

Acousta-Wal units specified. All units contain finished surfaces.

manufacturer approved integral water repellent

CMU admixture at the time of manufacture. PROJECT/SITE CONDITIONS

Protection of Work: Cover walls each

Fire Resistance: Define hourly ratings by NCMA day after installation to keep open walls

TEK Notes, available at EchelonMasonry.com or protected and dry

Table 722.3.2 of the 2012 International Building

Code. **PART II- PRODUCTS**

Field Constructed Mock-Ups: Construct a sample PRODUCT NAME

panel, no less than 4’x4’ of units of each color and **Acousta-Wal** sound absorbing cmu.

Size to be used in the product Finishes include:

>Ground Face

Manufacturer requires ordering a full-size unit to >High Polish

illustrate color and texture for approval. >Shot Blast

Manufacturer requires that a jobsite panel be >Gray Smooth Face

Installed at the jobsite prior to installation of any >Colored Smooth Face

Acousta-Wal product. This panel will represent

both the quality of the product and workmanship

to be expected for the project. The panel must be

approved by either the owner or architect for the

project. Manufacturer will provide enough material

for a 4’x4’ sample panel at no cost, excluding the

freight to the site.

MANUFACTURER INSTALLATION Adams Products 919-467-2218 Provide adequate lighting and work by 5701 McCrimmon Parkway placing lighting at a reasonable distance

Morrisville, NC 27560 for even illumination. Don not use trough

lighting.

Northfield Block 800-358-3003

3400 Bungalow Road Cutting: Make all unit cuts, including

Morris, IL 60450 those for bonding, holes, boxes, etc.

with motor-driven masonry saws using

Superlite Block 800-331-9823 either an abrasive or diamond blade.

4626 N. 42nd Ave. Cut neatly and locate for best

Phoenix, AZ 85019 appearance.

SIZES AND SHAPES MORTAR BEDDING AND JOINTNG

Acousta-Wal surfaces are manufactured to In all exterior mortar, we recommend

provide finished dimensions of 7 5/8”x 15 5/8” using an approved water repellent

+/- 1/8” long. Contact manufacturing plant for additive, following manufacturer’s

size availability. Instructions. Consult manufacturer

for recommendations.

**PART III EXECUTION**

FLASHING OF MASONRY WORK

LAYING MASONRY WALLS Install flashing at locations shown in

Draw blocks from more than one pallet at a time strict accordance with the details and

during installation. All exterior mortar shall best masonry flashing practices.

include a manufacturer approved water

repellent additive added to each batch in the WEEP HOLES AND VENTS

appropriate dosage rates for mortar type (M, S, Install weep holes and vents at proper

or N) per manufacturer’s instructions. Refer to intervals at courses above grade and

NCMA TEK notes, available at NCMA.org, for at any water stops over windows,

hot and cold weather construction doors, and beams. Consult CMHA

TEK Notes at CMHA.org for proper

Acousta-Wal units shall be installed by the General flashing and drawings.

Contractor or mason contractor. Installation of

Acousta-Wal blocks shall be consistent with the INSPECTION

best concrete masonry practices. Only quality units The ground face, high polish, shot

shall be used. blast, and smooth face units shall

conform to the requirements of

Acousta-Wal blocks shall be laid in running bond ASTM C-90 when viewed from a

or stacked bond as specified with the closed tops distance of 20 feet right at angles to

up. The units shall be laid in a full horizontal bed the wall with normal lighting.

of mortar. The slots shall face toward the room or

area where sound absorption is required as shown

on the plans. Slots shall be kept free of mortar and

debris and the exposed mortar at the bottom of each

slot shall be neatly tooled. **NO RAKE JOINTS.**

INSTALLATION RECOMMENDATIONS

The Acousta-Wal blocks must be laid in a full horizontal

bed of mortar and laid with the closed tops up. The slots

should face toward the noise source. Slots must be kept

free of mortar. The exposed mortar at the bottom of each

slot should be neatly tooled and all debris removed.

**NO RAKE JOINTS.**

Under no circumstances should the units be laid upside

down; that is, with the closed tops down. First, it would

be impossible to lay the units in a full horizontal bed of

mortar if the units are laid upside down. Second, excess

mortar would fall int the slots, giving an unsightly

appearance. If the cavity volume were reduced by more

than 5 to 10% due to mortar falling inside, the acoustical

performance of the units would be altered.

All Acousta-Wal concrete masonry units are manufactured

with an integral water repellent. The admixture is mixed

through the block at time of manufacturing and lasts for the

life of the product. Mortar must also be treated at the time

of installation.