



SPECIFICATION

AFM R-Control® ULTRASCREEN™ Sight and Sound Barrier System

1.) DESCRIPTION:

This work shall consist of furnishing and installing the ULTRASCREEN System to the dimensions and elevations indicated in the project plans and specifications.

2.) MATERIALS:

A.) Wide flange steel columns*, conforming to ASTM A36 or better shall be of the size selected by the Engineer for the project (8WF24, or similar). The columns to have a galvanized coating (ASTM A123) or be painted to a color that is compatible with the colors selected for the ULTRASCREEN Panels.

*Note: Concrete columns of equivalent strength and flange dimension may be used as an engineered substitute as determined by the Engineer of record.

B.) Panels shall be ULTRASCREEN Panels, manufactured by an AFM R-Control ULTRASCREEN Licensed Facility.

- 1.) Panels shall be of uniform prefabricated section consisting of two DUROCK Cement Board skin plates separated by AFM Perform Guard EPS and interface structural reinforcement. Panels shall have a nominal thickness of six and five-eighths (6.625) inch. Panels shall span horizontally between structural columns/posts.
- 2.) Panels shall have a typical height of four (4) feet and a minimum height of twelve (12) inches for each stacked panel. The top panels shall have a finished top, or similar field installed protection, i.e. metal, plastic, concrete, stone cap(s) or other as approved by AFM. If used, the top cap shall be of matching color to the finish on the cement board faces and as selected by the project Architect. The bottom panels shall have a bottom cement board cap. Intermediate panels shall have a factory formed tongue and groove shape along the long dimensions. Maximum panel weight shall be ten (10) pounds per square foot.
- 3.) A summary of test standards and results are included as Appendix I of this document.
- 4.) Color and Texture to be selected by the owner or owner's representative from the standard product line offered by AFM R-Control. Non-standard finishes, textures and/or architectural treatments shall be verified by the owner or owner's representative prior to contract award. A two (2) foot by two (2) foot sample panel showing the selected color, texture and any

architectural features is recommended prior to fabrication of the project specific ULTRASCREEN Panels. Finishes will be factory applied and ULTRASCREEN Panels will be delivered to the job site ready for installation.

- 5.) If the ULTRASCREEN panels require a field applied graffiti resistant coating, a primer that protects the ULTRASCREEN panel's acrylic finish must be specified by the Architect/Engineer of record and the primer must be applied prior to shipping of the ULTRASCREEN panels.

3.) CONSTRUCTION DETAILS:

The Contractor shall submit shop drawings and material certifications for review and approval by the Owner or the Owner's representative before fabrication commences. The panels shall be installed in the position and manner indicated on the plans and by methods acceptable to the Engineer of record. The allowable deviation from vertical shall be one half (0.5) inch in ten (10) feet.

4.) FABRICATION:

All components shall be shop fabricated to meet the dimensions and elevations indicated on the plans or as directed by the Engineer of record.

The manufacturer shall produce panels that are uniform in appearance and dimension. The dimension of the panels shall not vary by more than plus or minus one quarter (± 0.25) inch from the dimensions noted on the plans. The Engineer shall reject units that do not meet the above criteria.

5.) SHIPPING:

No units shall be shipped to the project site unless the units are free from defects and all specification requirements are achieved. Care must be taken to protect the panel edges from damage during shipment and storage.

6.) REPAIR:

Panels with minor defects (i.e., dents or holes in the surface coating) of less than three (3) inches in diameter may be repaired in accordance with the manufacturer's recommendations. Panels with perforations or damage exceeding that level are not acceptable for repair and shall be rejected by the Engineer.

7.) BASIS OF ACCEPTANCE:

One sample panel, no less than two (2) foot by two (2) foot with finish coating, color and texture shall be submitted to the Engineer for approval prior to any fabrication of finished panels.

Panel layout drawings shall be submitted to the Engineer for approval prior to any fabrication of finished panels. Drawings shall show the specific dimensions for each sized panel.

8.) INSTALLATION:

All components shall be handled and installed in accordance with the manufacturer's instructions, the plans and the specifications.

The ULTRASCREEN Wall shall be constructed by stacking consecutive ULTRASCREEN Panels between flanged steel beam columns/posts where noted on the plans. Consecutive panels shall firmly nest into one another along the tongue and groove edges.

After the panels are in place and if a top cap is specified, it shall be secured to the top panels using installation hardware and methods recommended by the manufacturer and approved by the Engineer of record.

END OF SPECIFICATION

November/2005