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TERRACOTTA RAIN SCREEN

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1.01 REFERENCE STANDARDS

A. AAMA 501.1 - Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure; 2017.

B. AAMA 501.4 - Recommended Static Test Method for Evaluating Window Wall, Curtain Wall and Storefront Systems Subjected to Seismic and Wind-Induced Inter-Story Drift; 2018.

C. AAMA 501.6 - Recommended Dynamic Test Method for Determining the Seismic Drift Causing Glass Fallout from Window Wall, Curtain Wall and Storefront Systems; 2018.

D. AAMA 509 - Voluntary Test and Classification Method for Drained and Back Ventilated Rainscreen Wall Cladding Systems; 2022.

E. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale); 2023.

F. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2023).

TERRA COTTA PANEL RAIN SCREEN SYSTEM

PART 1 – GENERAL

3.01 SUMMARY

THE WORK OF THIS SECTION INCLUDES, BUT SHALL NOT BE LIMITED TO, INSTALLATION OF THE TERRA COTTA PANEL RAIN SCREEN SYSTEM, CONSISTING OF THE FOLLOWING:

4.01 ALUMINUM VERTICAL OR HORIZONTAL TRACK AND CLIP (SECONDARY SUPPORT) SYSTEM.

4.02 EXTRUDED HOLLOW TERRA COTTA PANELS.

4.03 SILICONE GASKETS AND ISOLATORS.

4.04 ANCHORS, FASTENERS, FLASHINGS, WEATHERSEALS, COVER PLATES AND FORMED METAL TRIM THROUGH AND AT THE PERIMETER OF THE TERRA COTTA PANEL RAIN SCREEN SYSTEM AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

RELATED WORK:

5.01 DIVISION 03, CAST-IN-PLACE AND PRECAST CONCRETE.

5.02 DIVISION 04, UNIT MASONRY ASSEMBLIES.

5.03 DIVISION 05, COLD-FORMED METAL FRAMING AND STRUCTURAL STEEL FRAMING.

5.04 DIVISION 06, EXTERIOR SHEATHING, ROUGH CARPENTRY.

5.05 DIVISION 07, INSULATION, FLASHINGS, FIRESTOP SYSTEMS, AIR AND VAPOR BARRIERS, AND JOINT SEALERS.

5.06 DIVISION 08, WINDOWS, GLASS, AND GLAZING.

SYSTEM DESCRIPTION

HOLLOW CORE TERRA COTTA PANELS HUNG ON A PRE-ENGINEERED ALUMINUM TRACK SYSTEM WITH ALUMINUM CLIP SUPPORTS, GASKETS AND TRIM.

7.01 THE SYSTEM SHALL CONSIST OF TERRA COTTA PANELS SUPPORTED BY EXTRUDED ALUMINUM CLIPS ATTACHED TO ALUMINUM VERTICAL OR HORIZONTAL TRACK.

7.02 SILICONE GASKETS INSERTED INTO VERTICAL TRACK AND SILICONE ISOLATORS WRAPPED AROUND CLIPS; PROVIDE AT VERTICAL JOINT AND COMPRESSION BUBBLES IN EVERY TRACK TO MAINTAIN PANEL POSITION ACROSS THE FAÇADE AND PREVENT WIND INDUCED RATTLE.

7.03 TRACK TO BE ATTACHED TO SPECIFIED PORTION OF WALL ASSEMBLY STRUCTURALLY SUFFICIENT TO CARRY THE TERRA COTTA PANEL RAIN SCREEN SYSTEM AND ASSOCIATED LOADS.

SYSTEM SHALL BE DESIGNED AS A "DRAINED AND BACK VENTILATED RAIN SCREEN SYSTEM" TO ALLOW FOR THE FOLLOWING:

8.01 PRESSURE EQUALIZATION IN THE AIR SPACE BEHIND THE TERRA COTTA PANEL AND ALLOW FOR SUBSEQUENT DRYING WITHIN THE CAVITY VIA VENTILATION.

8.02 MOVEMENTS WITHIN THE STRUCTURE, AS SPECIFIED IN 1.3.

8.03 PERFORMANCE REQUIREMENTS OF THIS SECTION, AND TO FIT WITHIN THE SPACE ALLOTTED WITHOUT PROJECTIONS INTO ADJACENT FINISHED SPACE.

FLATNESS: SYSTEM SHALL BE FLAT WITH NO NOTICEABLE WARP, BUCKLING, DEFLECTIONS OR OTHER SURFACE IRREGULARITIES WITHIN MANUFACTURER'S SPECIFIED TOLERANCES.

DESIGN CRITERIA: TERRA COTTA PANEL RAIN SCREEN SYSTEM TO BE BASED ON THE DRAWINGS AND SPECIFICATIONS, WHICH INDICATE SIZES, PROFILES, FINISHES, AND DIMENSIONAL REQUIREMENTS.

PERFORMANCE REQUIREMENTS

GENERAL: DESIGN, FABRICATE AND INSTALL COMPONENTS SO THAT THE COMPLETED EXTERIOR WALL SYSTEM WILL WITHSTAND LIVE LOADS, THE INWARD AND OUTWARD PRESSURES SPECIFIED, AND LOADS STIPULATED BY THE BUILDING CODE IN EFFECT FOR THIS PROJECT. GEOGRAPHIC REGIONS PRONE TO SPECIFIC HYDROLOGIC, GEOLOGIC, SEISMIC, WIND OR OTHER NATURAL EVENTS MAY REQUIRE PROJECT SPECIFIC TESTING AND DESIGN.

12.01 THE SYSTEM SHALL HAVE A DESIGN LOAD OF POSITIVE AND NEGATIVE PRESSURES UP TO 45 PSF WHEN TESTED IN ACCORDANCE WITH ASTM E 330.

12.02 DEFLECTIONS WITHIN THE SYSTEM ARE TO BE LIMITED TO L/360 OF THEIR CLEAR SPAN OR 5/8", WHICHEVER IS LESS WHEN TESTED IN ACCORDANCE WITH ASTM E 330.

MOVEMENT: DESIGN, FABRICATE AND INSTALL SYSTEM TO WITHSTAND BUILDING SEISMIC AND THERMAL MOVEMENTS INCLUDING DEFLECTIONS, TEMPERATURE CHANGE WITHOUT BUCKLING, DISTORTION, JOINT FAILURE, PANEL FALLOUT OR BREAKAGE OR UNDUE STRESS ON SYSTEM COMPONENTS, ANCHORS OR PERMANENT DEFORMATION OF ANY KIND IN ACCORDANCE WITH AAMA 501.4 FOR STATIC SEISMIC AND WIND INDUCED INTERSTORY DRIFTS, AND AAMA 501.6 FOR DYNAMIC SEISMIC DRIFT.

INFILTRATION/PENETRATION: THE WORK OF THIS SECTION SHALL BE CONSTRUCTED TO PREVENT AIR AND WATER INFILTRATION AS OUTLINED BELOW:

14.01 AIR INFILTRATION: ASTM E 283. ALLOWABLE AIR INFILTRATION WILL BE 0.06 CFM OR LESS PER SQUARE FOOT WHEN TESTED UNDER A CONSTANT PRESSURE OF 6.24 PSF.

14.02 WATER PENETRATION (STATIC): ASTM E331. NO UNCONTROLLED WATER PENETRATION SHALL OCCUR WHEN TESTED IN STATIC MODE, UNDER A CONSTANT PRESSURE OF 12 PSF WITH 5 GALLONS OF WATER PER HOUR APPLIED PER SQUARE FOOT FOR A PERIOD OF 15 MINUTES.

14.03 WATER PENETRATION (DYNAMIC): AAMA 501.1. NO UNCONTROLLED WATER PENETRATION SHALL OCCUR WHEN TESTED IN DYNAMIC MODE, UNDER A CONSTANT WIND STREAM PRESSURE OF 12 PSF WITH 5 GALLONS OF WATER PER HOUR APPLIED PER SQUARE FOOT FOR A PERIOD OF 15 MINUTES.

14.04 THE COMPLETE SYSTEM IS TO BE DESIGNED TO EVACUATE ANY MOISTURE WHICH PENETRATES BEYOND THE OUTSIDE SURFACE MATERIALS AND TO WEATHER PROOF WITH MEMBRANE FLASHING AROUND ALL PERIMETERS AND OPENINGS THROUGH THE SYSTEM.

EXTERIOR VENTILATION: THE WORK OF THIS SECTION SHALL BE CONSTRUCTED TO INCORPORATE EXTERIOR VENTILATION WITHIN THE CLADDING SYSTEM DESIGN.

15.01 THE SYSTEM SHALL HAVE A V3 OR V4/W1 CLASSIFICATION IN ACCORDANCE WITH AAMA 509-09; CLASSIFICATION METHOD FOR DRAINED AND BACK VENTILATED RAIN SCREEN WALL CLADDING SYSTEMS.

15.02 WATER THAT PENETRATES THE CAVITY BEHIND THE RAIN SCREEN CLADDING ELEMENT OF THE WALL SYSTEM AND IS ON THE EXTERIOR SIDE OF THE AIR/WATER BARRIER SHALL BE DIRECTED TO THE EXTERIOR BY USE OF FLASHING, AND WEEPS.

COLOR/FINISH: TERRA COTTA PANELS SHALL BE FIRED CLAY MATERIALS THAT ACHIEVE THEIR FINAL THROUGH-BODY OR GLAZE COLOR AND TEXTURE THROUGH A KILN FIRING PROCESS FORMING PERMANENT BONDS.

TESTING:

17.01 ABSORPTION (ASTM C67): 4.0% TO 7.0%.

17.02 MODULUS OF RUPTURE (ASTM C99): 2,231 TO 3,717 PS

17.03 FLEXURAL STRENGTH (ASTM C880): 2,280 TO 3,457 PSI.

17.04 WEIGHT (ASTM C67): 130 TO 135 LBS/CU.FT.

17.05 WEIGHT PER UNIT AREA (STANDARD PANEL): 13 TO 16 LBS/SQ. FT.

17.06 LINEAR COEFFICIENT OF THERMAL EXPANSION: 3.5 X 10-6.

17.07 FREEZE AND THAW (ASTM C67): 300 CYCLES.

17.08 HARDNESS (VARIOUS STANDARD COLORS): 7 TO 9 MOHS SCALE.

17.09 EFFLORESCENCE (ASTM C67): NOT EFFLORESCED.

17.10 CHEMICAL RESISTANCE (((ASTM C126))): NO CHANGE IN COLOR OR TEXTURE.

FABRICATION TOLERANCES:

18.01 DIMENSIONAL TOLERANCE: 0.039 INCH FOR ANY CUT LENGTH UP TO 60 INCHES.

18.02 HEIGHT: PLUS OR MINUS 1/16 INCH UP TO 10 INCHES; PLUS OR MINUS 3/32 INCH UP TO 15 INCHES; PLUS OR MINUS 1/8 INCH UP TO 20 INCHES, PLUS OR MINUS 5/32 INCH UP TO 24 INCH.

18.03 THICKNESS, CROSS SECTION OF PANEL: PLUS OR MINUS 1/16 INCH.

18.04 STRAIGHTNESS ("SWEEP"): PLUS OR MINUS 0.25 % OF LENGTH.

18.05 DIAGONAL FLATNESS: PLUS OR MINUS 0.25 % OF DIAGONAL.

18.06 VERTICAL FLATNESS: PLUS OR MINUS 1.0 % OF HEIGHT.

18.07 TORSION: PLUS OR MINUS 0.25 % OF DIAGONAL.

SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION INCLUDING:

20.01 ELEVATIONS FOR EACH CONDITION INDICATING TERRA COTTA PANEL TYPE AND LOCATION.

20.02 SECTION DETAILS, TO CONVEY PROPER FABRICATION/INSTALLATION FOR TERRA COTTA PANEL TYPES.

20.03 SHOP DRAWINGS FOR WALL ASSEMBLY TO RECEIVE TERRA COTTA PANEL RAIN SCREEN SYSTEM TO BE COORDINATED WITH TERRA COTTA PANEL RAIN SCREEN SYSTEM SHOP DRAWINGS.

SAMPLES: TWO (2) SETS OF THE FOLLOWING SAMPLES IN THE SELECTED FINISH AND COLOR.

21.01 COLOR WILL BE SUBMITTED ON A 6”H X 6”W TILE.

21.02 TWO (2) 12-INCH LONG BY FULL SIZE PROFILE OF EACH TYPE OF PANEL. SAMPLES SHALL REPRESENT THE FULL RANGE OF COLOR AND TEXTURE PROPOSED FOR THE WORK.

21.03 ONE (1 12-INCH LONG BY FULL PROFILE SAMPLE OF EACH TYPE SHEET METAL TRIM AND CLOSURE PIECE.

PRODUCT DATA: MANUFACTURER’S LATEST PUBLISHED LITERATURE DESCRIBING EACH PRODUCT SELECTION.

MATERIAL & RESOURCES REQUIREMENT 2. .

23.01 MANUFACTURER AND FABRICATOR TO CERTIFY THAT PERFORMANCE TESTS SPECIFIED HAVE BEEN PERFORMED AND THAT PRODUCTS OR SYSTEMS, INCLUDING FINISHES, COMPLY WITH SPECIFIED REQUIREMENTS.

23.02 SUBMIT TWO (2) COPIES OF TEST REPORTS, PREPARED BY THE TESTING AGENCY, FOR EACH SPECIFIED TEST SHOWING REQUIRED PERFORMANCE CRITERIA AND TEST RESULTS. INCLUDE REPORTS OF FAILURES AND REMEDIAL ACTIONS TAKEN IN TEST REPORTS. ARRANGE WITH THE TESTING AGENCY TO PREPARE TEST REPORTS IN ACCORDANCE WITH REPORTING PROCEDURES DESCRIBED IN THE PROJECT SPECIFIED TEST STANDARDS.]

QUALITY ASSURANCE

INSTALLER/FABRICATOR QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER/FABRICATOR, WHO HAS SPECIALIZED IN THE ERECTION AND INSTALLATION OF TYPES OF SYSTEMS SIMILAR TO THAT REQUIRED FOR THIS PROJECT, TO ERECT THE TERRA COTTA PANEL RAIN SCREEN SYSTEM.

INSTALLER/FABRICATOR SHALL BE TRAINED BY THE MANUFACTURER AND HAS ENGAGED IN SIMILAR WORK FOR A PERIOD OF NO LESS THAN FIVE (5) YEARS.

MANUFACTURER'S QUALIFICATIONS: ENGAGE A MANUFACTURER EXPERIENCED IN THE MANUFACTURE OF TERRA COTTA PANEL RAIN SCREEN SYSTEM SIMILAR TO THOSE INDICATED FOR THE PROJECT, AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

SINGLE RESPONSIBILITY:

28.01 THE TERRA COTTA PANEL RAIN SCREEN SYSTEM, INCLUDING PANELS, VERTICAL TRACK OR HORIZONTAL TRACK, CLIPS AND GASKETS/ISOLATORS, SHALL BE PROVIDED BY THE SAME FIRM UNLESS OTHERWISE NOTED.

28.02 THE TERRA COTTA PANEL RAIN SCREEN SYSTEM SHALL HAVE BEEN IN USE FOR AT LEAST 5 YEARS.

MOCKUP: PROVIDE ONE COMPLETELY ASSEMBLED WALL AREA, AS SHOWN IN THE CONSTRUCTION DOCUMENTS, INSTALLED WITH ALL RELATED ACCESSORIES, IN COMPOSITE CONFIGURATIONS AND REPRESENTATIVE OF THE DESIGN AS SHOWN ON THE DRAWINGS.

29.01 EXTENT OF MOCKUP SHALL BE THE SAME AS THAT WHICH WILL BE PROVIDED IN THE FINAL WORK.

29.02 MOCKUP SHALL BE INSTALLED SIMULATING ACTUAL CONSTRUCTION CONDITIONS, INCLUDING ACTUAL STRUCTURAL SUPPORTS AND CONNECTIONS. USE MEANS, METHODS AND TECHNIQUES PROPOSED FOR FINAL INSTALLATION.

29.03 LOCATE MOCKUP IN LOCATION AS DIRECTED BY THE ARCHITECT.

29.04 PERSONNEL ASSEMBLING MOCKUP SHALL BE THE SAME PERSONNEL THAT WILL PERFORM THE ACTUAL WORK AT THE PROJECT SITE.

PRE-CONSTRUCTION COMPATIBILITY AND ADHESION TESTING: SUBMIT TO JOINT SEALANT MANUFACTURER SAMPLES OF MATERIAL THAT WILL CONTACT OR AFFECT JOINT SEALANTS FOR COMPATIBILITY AND ADHESION TESTING AS INDICATED BELOW:

30.01 USE TEST METHODS STANDARD WITH MANUFACTURER TO DETERMINE IF PRIMING AND OTHER SPECIFIC JOINT PREPARATION TECHNIQUES ARE REQUIRED TO OBTAIN RAPID, OPTIMUM ADHESION OF JOINT SEALANTS TO JOINT SUBSTRATES.

30.02 PERFORM TESTS UNDER NORMAL ENVIRONMENTAL CONDITIONS THAT WILL EXIST DURING ACTUAL INSTALLATION.

PRE-INSTALLATION INSPECTION: INSTALLER TO CONTACT MANUFACTURER OF THE TERRA COTTA PANEL RAIN SCREEN SYSTEM OWNER AND ARCHITECT, PRIOR TO INSTALLATION OF TERRA COTTA PANEL RAIN SCREEN SYSTEM IF SITE CONDITIONS ADVERSE TO PROPER INSTALLATION OF THE SYSTEM EXIST.

HANDLING

PROTECT COMPONENTS FROM ADVERSE JOB CONDITIONS PRIOR TO INSTALLATION.

PROTECT COMPONENTS FROM OTHER TRADES AFTER INSTALLATION.

STORAGE:

35.01 STORE COMPONENTS ON PLATFORMS OR PALLETS, COVERED WITH TARPAULINS OR OTHER SUITABLE WEATHER-TIGHT VENTILATED COVERING. STORE COMPONENTS SO THAT WATER ACCUMULATIONS WILL DRAIN FREELY.

35.02 DO NOT STORE TERRA COTTA PANELS IN CONTACT WITH OTHER MATERIALS THAT MIGHT CAUSE STAINING, SURFACE DAMAGE, OR OTHER DELETERIOUS EFFECT.

35.03 DO NOT STACK PLATFORMS OR PALLETS ONE ON TOP OF ANOTHER.

SPECIAL WARRANTY

MANUFACTURER SHALL WARRANT THE MATERIAL OF THIS SECTION FOR A PERIOD OF 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION AGAINST POSSIBLE MATERIAL DEFECTS.

INSTALLER SHALL WARRANT THE WORKMANSHIP OF THIS SECTION FOR A PERIOD OF 2 YEARS FROM DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS IN WORKMANSHIP.

THE INSTALLATION WARRANTY SHALL PROVIDE THAT THE EXTERIOR WALL SYSTEM WILL REMAIN WEATHER TIGHT DURING THE WARRANTY PERIOD AND THAT IF ANY LEAKS OCCUR DUE TO FAULTY INSTALLATION PRACTICES, COMPONENTS OF THE SYSTEM WILL BE REPAIRED OR REPLACED AS REQUIRED TO RENDER THE SYSTEM WEATHER-TIGHT, AT NO COST TO THE OWNER. THE WARRANTY SHALL COVER LABOR AND MATERIALS.

PART 2 - PRODUCTS

40.01 ACCEPTABLE MANUFACTURER

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURER OFFERING TERRA COTTA PANEL RAIN SCREEN SYSTEM THAT MAY BE INCORPORATED IN THE WORK INCLUDE THE FOLLOWING:

41.01 RAIN SCREEN SHALL BE TERRACLAD BY BOSTON VALLEY TERRA COTTA USA (TOLL FREE888.214.3655, TEL. 716.649.7490 - WWW.BOSTONVALLEY.COM), OR EQUAL.

MATERIALS

HOLLOW TERRA COTTA PANELS COMPLYING WITH THE FOLLOWING:

43.01 FINISH/COLOR: FROM MANUFACTURER'S STANDARD LINE, AS SELECTED BY ARCHITECT AND APPROVED BY DEVELOPMENT MANAGEMENT, STAFF AND RESIDENTS.

43.02 SIZE: AS INDICATED ON THE DRAWINGS.

FASTENERS, CLIPS, AND VERTICAL OR HORIZONTAL TRACK: IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO MEET PERFORMANCE CRITERIA SPECIFIED.

VERTICAL TRACK: 1. ALUMINUM ALLOY 6105 T5, MILL FINISHED.

HORIZONTAL TRACK: 1. ALUMINUM ALLOY 6063 T6, MILL FINISH

FLASHING, TRIM AND OTHER ACCESSORIES: SHOP-FABRICATED, CORROSION-RESISTANT TYPE CAPABLE OF COMPLYING WITH THE PERFORMANCE CRITERIA SPECIFIED AND DESIGNED TO ALLOW ADJUSTMENTS OF SYSTEM PRIOR TO BEING PERMANENTLY FASTENED.

SUPPORTING SYSTEM FASTENING METHOD: PRE-ENGINEERED ALUMINUM TRACK, AND CLIP, COMPLYING WITH THE FOLLOWING.

48.01 PANELS FASTENED AT HEAD GROOVES AND BASE CHANNELS USING ALUMINUM CLIPS INSERTED INTO THE TRACK.

48.02 THE ALUMINUM TRACK IS FASTENED TO THE BUILDING WALL SYSTEM AS SHOWN ON THE CONSTRUCTION DOCUMENTS OR INSTALLATION CONTRACTOR'S SHOP DRAWINGS.

48.03 THE REPLACEMENT OF DAMAGED PANELS, PARTICULARLY IN THE FIELD, MUST BE POSSIBLE USING SIMPLE METHODS AND SHALL NOT REQUIRE SPECIAL TOOLS NOR DAMAGE THE SURROUNDING PANELS.

48.04 SILICONE GASKETS SHALL BE COLORED BLACK, UNLESS SPECIFIED BY THE ARCHITECT TO MATCH THE PANEL COLOR.

PART 3 - EXECUTION

49.01 EXAMINATION

TERRA COTTA PANEL RAIN SCREEN SYSTEM INSTALLER TO EXAMINE CONDITIONS AFFECTING THE WORK OF THIS SECTION AT SITE. IF ANY CONDITIONS EXIST THAT WOULD BE DETRIMENTAL TO PROPER INSTALLATION OF TERRA COTTA PANEL RAIN SCREEN SYSTEM, INSTALLER IS TO NOTIFY ARCHITECT AND GENERAL CONTRACTOR / CONSTRUCTION MANAGER IN WRITING.

CORRECT CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THIS WORK BEFORE PROCEEDING WITH INSTALLATION.

INSTALLATION

DO NOT INSTALL BROKEN, CHIPPED OR CRACKED PANELS.

ISOLATE ALUMINUM SURFACES FROM DIRECT CONTACT TO STEEL, CEMENTITIOUS, AND DISSIMILAR MATERIALS WITH HIGH-IMPACT PLASTIC SHIMS, PAINT OR MEMBRANE.

INSTALL TERRA COTTA PANEL RAIN SCREEN SYSTEM TO WALL ASSEMBLY SPECIFIED IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND THEIR MANUFACTURER'S INSTRUCTIONS.

CONCEAL ALL FASTENERS, UNLESS OTHERWISE INDICATED ON DRAWINGS OR SPECIFIED HEREIN.

PLACE TERRA COTTA PANELS IN STACK OR RUNNING BOND TO LINES AND LEVELS, PLUMB, WITH UNIFORM, PARALLEL JOINTS, IN ACCORDANCE WITH THEIR MANUFACTURER'S INSTRUCTIONS.

57.01 USE CAUTION TO PREVENT DAMAGE TO TERRA COTTA PANELS.

57.02 WHEN FIELD-CUTTING, USE CAUTION TO ENSURE THAT CUTTINGS DO NOT REMAIN ON EXPOSED SURFACES. CUT EDGES SHALL BE SHARP, WITHOUT SPALLING.

57.03 CUTTING SHALL BE PERFORMED WITH A DIAMOND TIPPED WET SAW.

ENSURE THAT ASSEMBLY IS PLUMB, LEVEL AND FREE OF WARP OR TWIST; MAINTAIN DIMENSIONAL TOLERANCES AND ALIGNMENT WITH ADJACENT WORK.

BUILT-IN WORK:

59.01 AS WORK PROGRESSES, BUILD IN FLASHING AND OTHER ITEMS.

59.02 WHERE APPLICABLE, REMOVE PROTECTIVE FILM FROM FINISHED ALUMINUM SURFACES.

TOLERANCES: ACCURATELY ALIGN AND LOCATE COMPONENTS TO COLUMN LINES AND FLOOR LEVELS; ADJUST WORK TO CONFORM TO THE FOLLOWING TOLERANCES.

60.01 PLUMB: 1/8-INCH IN 10 FEET; 1/4-INCH IN 40 FEET; NON-CUMULATIVE.

60.02 LEVEL: 1/8-INCH IN 20 FEET; 1/4-INCH IN 40 FEET; NON-CUMULATIVE.

60.03 ALIGNMENT: LIMIT OFFSET TO 1/16-INCH WHERE SURFACES ARE FLUSH OR LESS THAN 1/2-INCH OUT OF FLUSH, AND SEPARATED BY LESS THAN 2 INCHES; OTHERWISE LIMIT OFFSETS TO 1/8 INCH.

60.04 LOCATION: 3/8-INCH MAXIMUM DEVIATION FROM MEASURED THEORETICAL LOCATION (ANY MEMBER, AND LOCATION).

60.05 LIPPING BETWEEN UNITS: 1/16 INCH MAXIMUM.

60.06 FINISHED WORK SHALL BE VIEWED FROM A DISTANCE OF 15 FEET PER ASTM C216-07A.

CLEANING

CLEAN SOILED SURFACES USING MATERIALS WHICH WILL NOT HARM TERRA COTTA PANELS OR ADJACENT MATERIALS, AS RECOMMENDED BY THE TERRA COTTA PANEL MANUFACTURER (CLEAN WITH MILD DETERGENT USING A NATURAL BRISTLE BRUSH, STARTING FROM TOP OF BUILDING TO THE BOTTOM). USE NON-METALLIC TOOLS IN CLEANING OPERATIONS. PRESSURE WASHER NOT TO EXCEED 1200 PSI.

UPON COMPLETION OF INSTALLATION, REMOVE PROTECTIVE COATINGS OR COVERINGS AND CLEAN ALUMINUM SURFACES, EXERCISING CARE TO AVOID DAMAGE OF FINISH.

REMOVE EXCESS SEALANT COMPOUNDS, DIRT OR OTHER FOREIGN SUBSTANCES.

REMOVE AND REPLACE TERRA COTTA PANELS THAT ARE BROKEN, CHIPPED, CRACKED, ABRADED OR DAMAGED DURING CONSTRUCTION PERIOD. REINSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

END OF SECTION 07 24 00