

ARCHITECTURAL GENERAL SPECIFICATIONS:

7.5 DOORS AND WINDOWS - DOOR HARDWARE:

- PART 1 - GENERAL
1.01 SUMMARY
A. PROVIDE DOOR HARDWARE WHERE INDICATED.
1.02 SUBMITTALS
A. SHOP DRAWINGS: NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.
B. OPERATING AND MAINTENANCE INSTRUCTIONS: NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.
1.03 QUALITY ASSURANCE
A. COMPLY WITH GOVERNING CODES AND REGULATIONS.

- PART 2 - PRODUCTS
2.01 MATERIALS
A. SCHEDULE: REFER TO DRAWING DOOR HARDWARE SCHEDULE.
B. MANUFACTURERS' PRODUCTS OF THE FOLLOWING MANUFACTURERS WILL BE CONSIDERED ACCEPTABLE.

- 2.02 KEYING
A. EXTERIOR DOORS WITH REMOVABLE CORE LOCK CYLINDERS SHALL BE KEYPED ALIKE.
B. SUPPLY 2 CHANGE KEYS FOR EACH LOCK.
2.03 FASTENINGS
A. FURNISH ALL NECESSARY SCREWS, BOLTS, AND OTHER FASTENERS OF SUITABLE SIZE AND TYPE TO PROPERLY ANCHOR THE HARDWARE.

- PART 3 - EXECUTION
3.01 INSTALLATION
A. FOLLOW GUIDELINES OF DHI "RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE".
B. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

8.0 FINISHES - PORTLAND CEMENT STUCCO:

- PART 1 - GENERAL
1.01 SUMMARY
A. PROVIDE PORTLAND CEMENT-BASED THREE COAT POLYMER MODIFIED STUCCO SYSTEM, COMPLETE.
1.02 SUBMITTALS
A. UPON REQUEST, SUBMIT MANUFACTURER'S WRITTEN SPECIFICATIONS, PROPORTION MIXES, AND INSTALLATION INSTRUCTIONS.

- 1.03 QUALITY ASSURANCE
A. COMPLY WITH GOVERNING CODES AND REGULATIONS.
B. STANDARDS: COMPLY WITH THE PROVISIONS OF THE FOLLOWING SPECIFICATIONS AND STANDARDS.
C. WARRANTY: PROVIDE MANUFACTURER'S STANDARD FIRE YEAR WARRANTY.

8.0 FINISHES - PORTLAND CEMENT STUCCO (CONT.):

- PART 2 - PRODUCTS
2.01 SYSTEM MATERIALS
A. GENERAL: SYSTEM SHALL BE COMPATIBLE WITH SUBSTRATE AND PROJECT CONDITIONS.
B. STUCCO
1. APPROVED MANUFACTURERS: STO SPECIFIED.
2. SCRATCH AND BROWN COAT STUCCO: a. PORTLAND CEMENT STUCCO/POWERWALL; FACTORY PROPORTIONED, FIBER REINFORCED PORTLAND CEMENT BASED STUCCO FOR TROWEL OR PUMP APPLICATION.

- 2.02 GENERAL MATERIAL REQUIREMENTS
A. CEMENT (TYPE AS REQUIRED FOR SPECIFIED STUCCO SYSTEM):
1. PORTLAND CEMENT: (WHITE OR GREY) ASTM C 150 TYPE N.
2. BLENDED CEMENT: ASTM C595-13 TYPE N.
3. MASONRY CEMENT: ASTM C91-12 TYPE N.
4. PLASTIC CEMENT: ASTM C1328-12 TYPE N.
5. COLORED MASONRY CEMENT: CONFORM TO ASTM C91-12 TYPE N.
6. AGGREGATE
1. BASE COATS: ASTM C897-05 OR ASTM C144-11, NATURAL OR MANUFACTURED SAND.
2. FINISH COAT: NATURAL OR MANUFACTURED SAND GRADED TO PASS THE NO. 18 MESH SIEVE.

- 2.03 SUBSTRATE MATERIALS
A. METAL LATH:
1. MANUFACTURERS: AMICO OR APPROVED EQUAL.
2. MINIMUM 2.5 LB. PER SQ. YD. SELF-FURRED G60 GALVANIZED STEEL DIAMOND MESH METAL LATH IN COMPLIANCE WITH ASTM C847-12.
3. MINIMUM NO. 17 GAUGE 1/8" THICK SELF-FURRED GALVANIZED STEEL WOVEN WIRE FABRIC IN COMPLIANCE WITH ASTM C1032-08.

- 2.04 MIXES
A. MIXING
1. GENERAL
a. SIZE MIXER TO PRODUCE BATCHES THAT WILL BE APPLIED WITHIN MAXIMUM OF 1 1/2 HOURS AFTER MIXING.
b. ACCURATELY PROPORTION MATERIALS FOR INITIAL PLASTER MIXTURE USING MEASURING DEVICES OR A SCOOP, TROWEL, SHOVEL, OR PAIL. SAND CAN BE USED AFTER MIXER IS CALIBRATED WITH KNOWN VOLUMES OF WATER.
2. HAND MIXING
a. MIX EACH BATCH SEPARATELY; DOUBLE BATCHING WITH SINGLE BATCH DISCHARGE SHALL NOT BE PERMITTED.
b. MAINTAIN MIXER IN CLEAN CONDITION BEFORE, DURING, AND AFTER PLASTER PREPARATION.
c. REMOVE PARTIALLY SET AND HARDENED PLASTER FROM MIXER DRUM BEFORE NEXT BATCH.
d. IF MIXER HAS BEEN PREVIOUSLY USED IN PREPARING GYPSUM PLASTER, THOROUGHLY CLEAN PRIOR TO USE TO PREPARE CEMENT PLASTER.
e. MAINTAIN MIXER IN CONTINUOUS OPERATION WHILE CHARGING MIXER.
f. ADD WATER TO BRING PLASTER TO DESIRED CONSISTENCY.
3. MECHANICAL MIXING
a. MIX EACH BATCH SEPARATELY; DOUBLE BATCHING WITH SINGLE BATCH DISCHARGE SHALL NOT BE PERMITTED.
b. MAINTAIN MIXER IN CLEAN CONDITION BEFORE, DURING, AND AFTER PLASTER PREPARATION.
c. REMOVE PARTIALLY SET AND HARDENED PLASTER FROM MIXER DRUM BEFORE NEXT BATCH.
d. IF MIXER HAS BEEN PREVIOUSLY USED IN PREPARING GYPSUM PLASTER, THOROUGHLY CLEAN PRIOR TO USE TO PREPARE CEMENT PLASTER.
e. MAINTAIN MIXER IN CONTINUOUS OPERATION WHILE CHARGING MIXER.
f. ADD WATER TO BRING PLASTER TO DESIRED CONSISTENCY.
g. INGREDIENTS HAVE BEEN ADDED TO THE MIXER.
h. USE ONLY THE MINIMUM AMOUNT OF WATER NECESSARY FOR A WORKABLE MIX.
i. USE OF EXCESS WATER IS DETRIMENTAL TO PERFORMANCE.
j. MIX FACTORY-PREPARED PLASTER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. HAND MIXING
a. HAND MIXING SHALL BE ALLOWED ONLY WHEN AUTHORIZED BY ARCHITECT FOR SMALL BATCHES.
b. PROVIDE WATERPROOF PROTECTION AROUND MIXING TUB AND WATER BARRELS WHEN MIXING INSIDE THE BUILDING.
B. MIX PROPORTIONS
1. SCRATCH AND BROWN COAT STUCCO:
a. SCRATCH COAT: MIX 4 PARTS BY VOLUME OF SAND TO 1 - 94 LB. BAG SCRATCH AND BROWN COAT STUCCO MIX AND 4 TO 6.5 GALLONS OF CLEAN WATER.
b. BROWN COAT: MIX 5 PARTS BY VOLUME OF SAND TO 1 - 94 LB. BAG SCRATCH AND BROWN COAT STUCCO MIX AND 4 TO 6.5 GALLONS OF CLEAN WATER.
c. ADD 1/2 OF THE REQUIRED WATER AND 1/2 OF THE SAND. WHILE SAND AND WATER ARE MIXING ADD ONE BAG OF SCRATCH AND BROWN COAT STUCCO MIX IN A PADDLE TYPE MORTAR MIXER, THEN ADD THE REST OF THE SAND AND SUFFICIENT WATER TO ACHIEVE A UNIFORM MIX OF WORKABLE CONSISTENCY.
d. ADMIXTURES: ADD 1 PART INTEGRAL BONDING AGENT OF POLYMER MODIFIED ADMIXTURE WITH 3 PARTS WATER BY VOLUME TO DILUTE MIXING PAIL AND MIXING WITH A HIGH SPEED ELECTRIC DRILL MIXER.
2. PRIMER: MIX WITH A CLEAN, RUST FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY PER MANUFACTURER'S RECOMMENDATIONS.

8.0 FINISHES - PORTLAND CEMENT STUCCO (CONT.):

- 3. FINISH COAT: MIX FACTORY PROPORTIONED FINISH COAT MATERIAL PER MANUFACTURER'S RECOMMENDATIONS WITH A CLEAN, RUST FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY.
A SMALL AMOUNT OF WATER MAY BE ADDED TO ADJUST WORKABILITY.
PART 3 - EXECUTION
3.01 EXAMINATION
A. STRUCTURAL (WIND AND AXIAL LOADS): SUBSTRATE MAXIMUM ALLOWABLE DEFLECTION, NORMAL TO THE PLANE OF THE WALL, SHALL BE L/900.
B. VERIFY THAT SUBSTRATE TO RECEIVE STUCCO CONFORMS TO THE REQUIREMENTS OF ASTM C926-12A.
C. VERIFY THAT AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED PERMIT PROPER AND TIMELY COMPLETION OF THE WORK.
D. NOTIFY ARCHITECT IF CONDITIONS ARE NOT ACCEPTABLE PRIOR TO COMMENCING WORK.
3.02 SURFACE PREPARATION
A. CONCRETE (CAST-IN-PLACE) SUBSTRATES: PROVIDE A SURFACE THAT IS SLIGHTLY SCARIFIED, WATER ABSORBENT, STRAIGHT AND TRUE TO LINE AND PLANE.
B. CONCRETE MASONRY UNITS SUBSTRATES: REMOVE PROJECTING JOINT MORTAR SO IT IS EVEN WITH PLANE OF THE WALL.
C. CONCRETE AND CONCRETE MASONRY UNIT SUBSTRATES: WHERE BOND INHIBITING MATERIAL CANNOT BE REMOVED, WHERE CONCRETE SURFACE IRREGULARITIES ARE SUCH THAT MORE THAN 1/8 INCH OF STUCCO MUST BE APPLIED, OR WHEN THE SURFACE IS TOO DENSE OR NON-ABSORBENT TO RECEIVE THE STUCCO, INSTALL FURRED OR SELF-FURRED LATH.

- 3.03 PROJECT CONDITIONS
A. COLD WEATHER REQUIREMENTS: MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40°F DURING APPLICATION AND DRYING PERIOD.
B. HOT WEATHER CONDITIONS: PREVENT UNEVEN OR EXCESSIVE EVAPORATION OF MOISTURE FROM STUCCO DURING HOT, DRY OR WINDY WEATHER.
C. VENTILATION:
1. PROVIDE VENTILATION FOR DRYING OF INSTALLED CEMENT PLASTER.
2. COVER ALL WALL OPENINGS WITH PLASTIC FILM WHEN BUILDING IS SUBJECT TO HOT, DRY WINDS.
D. PROTECTION:
1. PREVENT EXCESSIVE HUMIDITY DURING AND AFTER CONSTRUCTION.
2. PROTECT ADJACENT FINISHED SURFACES.
3. MAINTAIN PROTECTION IN PLACE UNTIL COMPLETION OF STUCCO.
3.04 GENERAL INSTALLATION REQUIREMENTS
1. APPLY STUCCO IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C926-12A FOR THE APPLICATION OF THREE COAT CEMENT STUCCO OVER PROJECT SUBSTRATE CONDITIONS.
2. MOISTURE CONTROL: PREVENT ACCUMULATION OF WATER INTO OR BEHIND STUCCO.
3. CONDENSATION CONTROL: PREVENT ACCUMULATION OF WATER INTO OR BEHIND STUCCO, EITHER BY CONDENSATION OR LEAKAGE.
4. CORROSION CONTROL: PREVENT CORROSION RESISTANT FLASHING, AIR LEAKAGE PREVENTION, AND CONDENSATION SYSTEMS.
5. WATER CONTROL: PREVENT WATER INGRESS OR LEAKAGE INTO OR BEHIND STUCCO.
6. LEAKAGE CONTROL: PREVENT WATER INGRESS OR LEAKAGE INTO OR BEHIND STUCCO.
7. SLOPED SURFACES: DO NOT INSTALL STUCCO ON WEATHER EXPOSED HORIZONTAL SURFACES.
8. SLOPE STUCCO 1/2" MINIMUM AT HORIZONTAL REVEALS.

- EXPANSION JOINTS
1. PROVIDE TWO PIECE EXPANSION JOINTS (OR BACK-TO-BACK CASING BEADS) IN STUCCO SYSTEM WHERE BUILDING MOVEMENT IS ANTICIPATED AT CHANGES IN SUBSTRATE CONDITIONS OF SUPPORTING CONSTRUCTION.
2. PROVIDE ONE PIECE EXPANSION/CONTROL JOINTS EVERY 144 SQ. FT. FOR SHEATHING SUBSTRATE APPLICATIONS AND 250 SQ. FT. FOR CONCRETE OR MASONRY SUBSTRATE APPLICATIONS.
3. PROVIDE ONE PIECE EXPANSION/CONTROL JOINTS AT THROUGH WALL OPENINGS, DOORS AND WINDOW PENETRATIONS.
4. CUT AND WIRE LATH TO THE EXPANSION/CONTROL JOINT ACCESSORY SO LATH IS DISCONTINUOUS BENEATH THE ACCESSORY.
5. INSTALL CORNER BEAD AT OUTSIDE CORNERS AND CORNER LATH AT INSIDE CORNERS.
6. INSTALL CORNER PIECES WHERE POSSIBLE AND AVOID SMALL PIECES.
7. EMBED END OF SEALANT INTO VERTICAL JOINT HORIZONTAL INTO HORIZONTAL JOINTS.
8. ATTACH AT NO MORE THAN 7 INCHES ON CENTER INTO SUBSTRATE WITH APPROPRIATE FASTENERS.
9. PROVIDE APPROPRIATE ACCESSORIES AT STUCCO TERMINATIONS AND JOINTS.
10. PROVIDE APPROPRIATE SEALANT AT STUCCO TERMINATIONS.
F. LATH
1. DIAMOND MESH METAL LATH:
a. GENERAL: INSTALL METAL LATH WITH THE LONG DIMENSION AT RIGHT ANGLES TO STRUCTURAL FRAMING.
b. SEAMS/OVERLAPS: OVERLAP SIDE SEAMS MINIMUM 1/2 INCH AND END SEAMS MINIMUM 1 INCH STAGGER END SEAMS.
c. ATTACHMENT: FASTEN SECURELY INTO SUBSTRATE WITH APPROPRIATE FASTENERS AT 7 INCHES ON CENTER HORIZONTALLY.
d. CUT AND WIRE LATH TO THE EXPANSION/CONTROL JOINT ACCESSORY SO LATH IS DISCONTINUOUS BENEATH THE ACCESSORY.
2. WOVEN WIRE FABRIC LATH: FOLLOW INSTALLATION REQUIREMENTS FOR METAL LATH EXCEPT OVERLAP ALL SEAMS BY ONE FULL MINIMUM.
3. PAPER-BACKED LATH: FOLLOW INSTALLATION REQUIREMENTS FOR METAL LATH.
4. SINGLE STYLE BEHIND THE LATH TO LATH OVERLAP.

- 3.05 INSTALLATION
A. INSTALLATION OVER CAST-IN-PLACE CONCRETE OR CONCRETE MASONRY UNITS
1. BONDING AGENT: INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. WEEP SCREED INSTALLATION: INSTALL FOUNDATION WEEP SCREED AT THE BASE OF THE WALL.
3. CASING BEADS AND JOINTS: INSTALL AS SPECIFIED.
4. SCRATCH COAT: APPLY STUCCO WITH SUFFICIENT PRESSURE TO ENSURE INTIMATE CONTACT WITH SUBSTRATE AND COMPLETE COVERAGE TO AN APPROXIMATE THICKNESS OF 1/4 INCH.
5. BROWN COAT: AS SOON AS FIRST COAT IS FIRM ENOUGH TO RECEIVE THE SECOND COAT WITHOUT DAMAGE, APPLY THE SECOND COAT ALTERNATIVELY, MOIST CURE THE FIRST COAT UP TO 48 HOURS AND DAMPEN THE SCRATCHED SURFACE WITH WATER IMMEDIATELY BEFORE APPLYING THE SECOND COAT.
6. FINISH COAT: APPLY THE SECOND COAT WITH SUFFICIENT PRESSURE TO ENSURE INTIMATE CONTACT WITH THE FIRST COAT TO AN APPROXIMATE THICKNESS OF 1/8 TO 1/4 INCH AND AS NEEDED TO BRING THE STUCCO TO THE DESIRED THICKNESS.
7. AFTER THE STUCCO HAS LOST SUFFICIENT MOISTURE SO THAT THE SURFACE SHEEN HAS DISAPPEARED, FLOAT THE SURFACE SLIGHTLY WITH A HARD OR WOOD FLOAT TO DENSIFY THE SURFACE AND TO PROVIDE A SMOOTH, EVEN SURFACE.
8. AFTER THE STUCCO BECOMES SO RIGID THAT IT CANNOT BE MOVED BENEATH THE FLOAT.

8.0 FINISHES - PORTLAND CEMENT STUCCO (CONT.):

- 7. MOISTURE CURE AFTER THE STUCCO HAS SET BY LIGHTLY FOGGING THE SURFACE FOR AT LEAST 48 HOURS.
8. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.
9. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.
10. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.
11. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.
12. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.

- 3.06 ADJUSTING AND CLEANING
A. PATCHING
1. POINT-UP PLASTER AROUND TRIM AND OTHER LOCATIONS WHERE PLASTER ABUTS DISSIMILAR MATERIALS.
2. REMOVE DEFECTIVE AND DAMAGED PLASTER BY CUTTING IT OUT.
3. REPLACE REMOVED PLASTER USING PLASTER WITH SAME COMPOSITION AND BROUGHT TO DESIRED TEXTURE AND COLOR CONSISTENT WITH SURROUNDING AREA.
B. CLEANING
1. REMOVE PROTECTIVE MATERIALS MASKING ADJACENT SURFACES.
2. REMOVE STAINS THAT AFFECT UNIFORMITY OF PLASTER FINISH.
3. USE CLEANING METHODS APPROVED IN ADVANCE BY THE ARCHITECT.
C. COLOR UNIFORMITY: TO CORRECT NON-UNIFORM COLOR THROUGHOUT THE FIELD OF THE PLASTER, FOG COAT SPRAY ENTIRE FINISH-COAT SURFACE PER MANUFACTURER'S RECOMMENDATIONS.
D. TOLERANCE: COMPLETE PLASTER WORK SUCH THAT THE DEVIATION FROM TRUE PLANE (EXCLUSIVE OF TEXTURE) IS NO GREATER THAN 1/4 IN. AS MEASURED FROM LINE OF A 10-FT STRAIGHTEDGE PLACED AT ANY LOCATION ON SURFACE.
E. FINISH COAT SEALANTS: INSTALL APPROPRIATE SEALANTS AROUND JOINTS, OPENING AND PENETRATIONS PER MANUFACTURER'S RECOMMENDATIONS.

- 3.07 FINISH COAT INSTALLATION
1. APPLY SELECTED FINISH COAT DIRECTLY OVER THE STUCCO WHEN DRY.
2. MOISTURE CURE AFTER THE STUCCO HAS SET BY LIGHTLY FOGGING THE SURFACE FOR AT LEAST 48 HOURS.
3. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.
4. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.
5. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.
6. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS.

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