

MASONRY NOTES

CONCRETE MASONRY UNITS: SHALL BE HOLLOW, SUITABLE FOR BEARING WALL CONSTRUCTION. ALL BLOCKS SHALL CONFORM TO GRADE N UNITS GIVEN IN ASTM C90, LATEST EDITION, AND IN ADDITION SHALL HAVE A LINEAR SHRINKAGE OF 0.065% MAXIMUM FROM SATURATION TO THE OPEN DRY CONDITION. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN (28) DAYS WHEN PLACED IN THE STRUCTURE. PROVIDE ALL BOND BEAM UNITS, LINTELS, ETC., AS REQUIRED.

DEFECTIVE UNITS: DO NOT USE CHIPPED OR CRACKED BLOCKS. IF ANY SUCH BLOCKS ARE DISCOVERED IN ANY FINISHING WALL, THEY SHALL BE PROMPTLY REMOVED AND REPLACED WITH NEW BLOCKS TO THE APPROVAL OF THE ENGINEER.

MORTAR: SHALL BE TYPE S UNLESS OTHERWISE NOTED EXCEPT THAT TYPE M SHALL BE USED WHERE MASONRY IS BELOW GRADE OR IN CONTACT WITH THE EARTH.

GROUT: FOR PUMPING SHALL BE FLUID CONSISTENCY AND SHALL NOT HAVE LESS THAN (5) SACKS OF CEMENT IN EACH CUBIC YARD OF GROUT. THE MIX SHALL BE REVIEWED BY THE ENGINEER. FLUID CONSISTENCY SHALL MEAN A CONSISTENCY AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS.

ADMIXTURES: THE USE OF ADMIXTURES SHALL NOT BE PERMITTED IN MORTAR OR GROUT UNLESS SUSTAINING DATA HAS BEEN SUBMITTED TO AND REVIEWED BY THE ENGINEER. THE USE OF ADMIXTURES IN MORTAR SHALL NOT BE PERMITTED WITHOUT REDUCING THE LIME CONTENT. THE USE OF UNCONTROLLED FIRE CLAY, DIRT, AND OTHER DELETERIOUS MATERIALS IS PROHIBITED.

MIXING: PLACE THE SAND, CEMENT AND WATER IN THE MIXER IN THAT ORDER FOR EACH BATCH OF MORTAR OR GROUT AND MIX FOR A PERIOD OF AT LEAST 2 MINUTES. ADD THE LIME AND CONTINUE MIXING FOR AS LONG AS NEEDED TO SECURE A UNIFORM MASS, BUT IN NO CASE LESS THAN 10 MINUTES. USE MIXERS TO SECURE A UNIFORM CAPACITY. BATCHES REQUIRING FRACTIONAL SACKS WILL NOT BE PERMITTED UNLESS CEMENT IS WEIGHED FOR EACH SUCH BATCH. RETEMPER MORTAR ONLY BY ADDING WATER INTO A BATCH MADE WITH THE MORTAR AND THEN CAREFULLY WORKING THE WATER INTO THE MORTAR. RETEMPERING THE MORTAR BY DASHING WATER OVER THE MORTAR SHALL NOT BE PERMITTED. ANY MORTAR OR GROUT WHICH IS UNUSED WITHIN ONE HOUR AFTER THE INITIAL MIXING SHALL BE REMOVED FROM THE WORK. MORTAR SHALL BE MIXED AND MAINTAINED ON THE BOARDS TO A SLUMP OF 2-3/4 INCHES PLUS OR MINUS 1/4 INCH USING A TRUNCATED CONE 4 INCHES BY 2 INCHES; 6 INCHES HIGH.

CEMENT: SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE I OR TYPE II, AND SHALL BE ENTIRELY OF ONE MANUFACTURE. CEMENT USED IN LOCATIONS IN CONTACT WITH ONSITE SOILS SHALL BE TYPE V OR EQUIVALENT SULFATE RESISTANT CEMENT.

WATER: WATER USED FOR MORTAR AND GROUT SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACIDS, SALTS, ALKALI, AND ORGANIC MATERIALS.

AGGREGATES: SAND FOR MORTAR SHALL CONFORM TO ASTM C144 EXCEPT THAT NOT LESS THAN 3% OF THE SAND SHALL PASS THE NUMBER 100 SIEVE. SAND AND PEA GRAVEL FOR GROUT SHALL CONFORM TO ASTM C404, TABLE I, COARSE AGGREGATE, EXCEPT WHEN OTHER GRADINGS ARE SPECIFICALLY APPROVED BY THE ENGINEER.

QUICKLIME: QUICKLIME SHALL CONFORM TO ASTM C5.

CONSTRUCTION JOINTS: WHEN GROUTING IS STOPPED FOR A PERIOD OF (1) HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR 1-1/2 INCHES MINIMUM BELOW THE UPPER MOST UNIT.

CONSTRUCTION JOINTS OR CONTROL JOINTS SHALL BE LOCATED AT 30'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE ON PLANS.

ALIGNMENT OF VERTICAL CELLS: ALL MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. THE VERTICAL ALIGNMENT SHALL BE SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED VERTICAL FLUE MEASURING NOT LESS THAN 3 INCHES BY 3 INCHES, EXCEPT WHERE OPEN END UNITS ARE USED.

BOND BEAMS: HORIZONTAL REINFORCEMENT SHALL BE SOLIDLY ENCASED IN GROUT.

LAYING: IN PLACING MORTAR IN HORIZONTAL JOINTS, COMPLETELY COVER THE FACE SHELLS OF THE UNITS WITH MORTAR. SOLIDLY FILL ALL HEAD JOINTS. LAY ALL MASONRY WITH COMMON OR RUNNING BOND. HOLD RAKING TO A MINIMUM.

WALL CLEANING AND PROTECTION: REMOVE CONCRETE SCUM AND GROUT STAINS ON THE WALL IMMEDIATELY. AFTER THE WALL IS CONSTRUCTED, DO NOT SATURATE WITH WATER FOR CURING OR ANY OTHER PURPOSE. CHECK ALL JOINTS FOR TIGHTNESS AND, WHERE CRACKS ARE VISIBLE, CHIP OUT THE MORTAR, TUCK POINT AND TOOL TO MATCH ADJACENT JOINING.

GROUT QUALITY: GROUT FILL FOR CELLS SHALL CONSIST OF ONE PART PORTLAND CEMENT TO NOT MORE THAN (3) PARTS SAND, TO (2) PARTS PEA GRAVEL, 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE. GROUT FILL USING COARSER AGGREGATE MAY BE USED IF THE MIX IS PROPERLY DESIGNED AND APPROVED BY THE ENGINEER. THE MAXIMUM SIZE OF AGGREGATE USED SHALL NOT EXCEED 1/5 THE LEAST LATERAL DIMENSION OF THE CELL TO BE FILLED. GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT (28) DAYS.

GROUTING: MECHANICALLY VIBRATE GROUT IN ALL CELLS. PROVIDE 2 INCH MINIMUM COVER TO EMBEDDED ITEMS. SOLID GROUT ALL CELLS.

MORTAR: MORTAR STRENGTH $f'_c = 1800\text{PSI}$

DOWELS: ALL VERTICAL WALL REINFORCEMENT SHALL HAVE DOWELS EQUAL IN SIZE EMBEDDED INTO FOOTING UNLESS NOTED OTHERWISE ON THESE PLANS.

STRENGTH: ULTIMATE COMPRESSIVE STRENGTH, f'_m SHALL BE 1,500 PSI UNLESS NOTED OTHERWISE ON THE PLANS.

SPECIAL INSPECTION: IS NOT REQUIRED

MAXIMUM HEIGHT: MAXIMUM HEIGHT OF ANY GROUT POUR SHALL NOT BE GREATER THAN 4-8 FEET UNLESS PROPER HIGH-LIFT PROCEDURES ARE USED.

MASONRY REBAR LAP LENGTHS: SHALL BE 48 DIAMETERS UNLESS NOTED OTHERWISE ON THE PLANS.

REINFORCING COVER: 2 INCHES MINIMUM THROUGHOUT. POSITIONING DEVICES SHALL BE USED TO INSURE THE CORRECT PLACEMENT OF THE REINFORCEMENT.

FIELD FOREMAN: THE FIELD FOREMAN RESPONSIBLE FOR ALL STRUCTURAL MASONRY CONSTRUCTION SHALL HAVE A MINIMUM OF (3) YEARS OF EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF WORK.

EMBED ITEMS: REINFORCING BARS EMBEDS, ANCHOR BOLTS ETC., MUST BE SECURED IN PLACE PRIOR TO POURING GROUT. DO NOT STAB THESE INTO POURED GROUT.



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