

MASONRY BLOCK WALL DETAIL



City of San Juan Capistrano

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D-12: 1-14

- APPLICABLE BUILDING STANDARDS:**
1. 2013 California Building Code (CBC)
 2. San Juan Capistrano Municipal Code (SJCMC)

INTRODUCTION

The City standard detail for wall construction applies to masonry walls and block fences over 3 feet high and less than 6 ft. in height. Any other configuration will require structural design by a registered Professional Engineer or licensed Architect.

Retaining walls or block fencing incorporating a retaining wall require a separate review and permit.

Walls constructed on the common property line require a signed "Common Wall Agreement". This form is available at the Building Department counter. Projects without an agreement are subject to verification of property lines by means of a Property Line survey and Certification, prepared by a licensed Civil Engineer or licensed Professional Surveyor.

GENERAL INFORMATION

MASONRY UNITS

Shall conform to ASTM C 90, and manufactured in accordance with Masonry Standards Joint Committee (MSJC) standards. $f'_m = 1500$ psi

PORTLAND CEMENT

Shall conform to ASTM C 150, TYPE V.

CONCRETE

Shall have a minimum compressive strength of 2500 psi at 28 days and a water/cement ratio = 0.45 unless a soils report recommends otherwise. (Special inspection is required for concrete over 2500psi)

MORTAR

Shall be freshly prepared and uniformly mixed in the ratio by volumes of 1 part cement, ½ part lime putty, 4 ½ parts sand and shall conform to ASTM C 270. If plastic type cement is used, the lime putty shall be omitted. Cells with reinforcements shall not contain mortar projections over ¼".

GROUT

Shall be of fluid consistency. Ratio by volumes 1 part cement, 3 parts sand OR 1 part cement, 3 parts sand, 2 parts pea gravel. Units shall be laid a maximum of 4 feet before grouting. Lifts up to 6 feet may be allowed with the use of cleanouts at the reinforcement cells.

REINFORCING STEEL

Shall be deformed bars conforming to ASTM A 615 Grade 40 or better.

****THIS HANDOUT IS SIMPLY TO MAKE CERTAIN PARTS OF THE CODE MORE ACCESSIBLE AND SHOULD BE USED ONLY AS A GUIDELINE****

