

County Prestress & Precast LLC

Precast and Prestressed Lintels

PREPARATION

(8" Wide)

For proper installation of precast and prestressed lintels, County Prestress & Precast has prepared these installation instructions to be used in conjunction with industry standard quality control methods and good construction practices.

Preparation

1. All reinforcement shall be clean and not in a condition that will adversely affect or reduce bond at the time mortar or grout is placed. Reinforcement shall meet ASTM specifications.
2. Prior to placing masonry lintels, clean the bearing surface of the CMU and lintel of any dirt, dried mortar or debris to ensure the Type S mortar bonds to the lintel
3. Construct grout spaces free of mortar dropping, debris, loose aggregates, and any material deleterious to masonry grout.

Lintel/masonry erection

LINTEL / CMU ERECTION

1. Lintel placement — Minimum lengths of bearing of lintels on their support shall be as follows : 4 inches for filled lintels and 6 inches for unfilled lintels. These bearing lengths are in the direction of span.

Temporary support(shoring) at approximately midspan shall be provided for lintels that are greater than 14' 0" in length. The temporary support shall not be removed until a minimum of 48 hours after grouting operations are completed.

2. Composite Lintels – mortar and masonry unit placement

Bed and head joints – Unless otherwise specified, construct 3/8 inches thick bed and head joints. Construct joints that also conform to the following:

- a. Remove masonry protrusions extending ½ inches or more into cells or cavities

receiving cell fill grout.

b. Placement of CMU shall be half-bond, ensuring fully open grout cells are unobstructed.

c. Face shells of bed joints are fully mortared.

d. Head joints are adequately mortared, a minimum distance from each face equal to the face shell thickness of the units.

Place clean masonry units while the mortar is soft and plastic. Remove and relay in fresh mortar bed any unit disturbed to the extent that the bond is broken after initial laying/setting.

REINFORCEMENT INSTALLATION

1. Support and Tie rebar together to prevent displacement beyond tolerances allowed by construction loads or by placement of grout or mortar.
2. Place rebar/grout assembly in accordance with ACI 530-02 Article 3.5. (TMS 402/602) *Reinforcement to be fully embedded in grout.*
3. Maintain clear distance between reinforcement bars and face of CMU or formed surface, but not less than ¼ inch with fine grout or ½” with coarse grout.

GROUT PLACEMENT

1. Grout placement time: place grout within 1-1/2 hours after batching.
2. Grout confinement: confine grout to the areas indicated on the project drawings. Use material to confine grout that permits bond between masonry units and mortar.
3. Maximum grout placement drop height : per ACI 530-02 Table 7. (TMS 402/602)
4. Grout placement height: 5’4” (low Lift) 12’8” (High Lift)



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