



Concrete Precast Products, Inc.

QUALITY CONTROL MANUAL

Version 1.1

December 16, 2020

Concrete Precast Products, Inc.

PRECAST LINTELS **(6", 8" AND 12" WIDE)**

In order for proper manufacture of precast and prestressed lintels, DANSCO Engineering, LLC, has prepared this quality control manual to be used in conjunction with quality control methods of the plant.

Reinforcement Steel

All reinforcing bars shall be deformed and shall be the grade required by the drawings. They shall be minimum grade 40 conforming to ASTM A-615 in the precast lintels.

All reinforcement shall be bent cold unless otherwise permitted. Reinforcement shall be placed to a tolerance of $\frac{1}{2}$ ". A minimum concrete cover of $1 - \frac{1}{2}$ " is recommended.

At the time of concrete placement, all reinforcement shall be free of mud, oil or other materials that may adversely affect or reduce the bond.

All reinforcement shall be supported and fastened before concrete placement and shall be secured against displacement within the tolerances specified.

Concrete

Ready-mixed concrete shall be batched, mixed, and transported in accordance with ASTM C-94. Plant equipment and facilities shall conform to "Certification of Ready Mixed Concrete Production Facilities (Checklist with Instructions)" of the National Ready Mixed Concrete Association.

Concrete produced by on-site volumetric batching and continuous mixing shall be batched and mixed in accordance with and shall conform to all requirements of ASTM C-685. A minimum compressive strength of 5,000 psi shall be used in all concrete for the production of precast lintels.

Quality Control Manual

A minimum of 2 sets of 3 cylinders shall be taken from each type of concrete mix used within a period of thirty days. Compressive strength tests shall be performed by an ACI certified testing facility and all results kept on premises. Concrete cylinders must be prepared and cured in accordance with ASTM C-192. In addition, the certified testing agency should perform slump test in accordance with ASTM C-143. These results shall be reviewed by DANSCO Engineering, LLC at least twice a year to ensure compliance.

Concrete mix designs of each type mix shall be kept on file by DANSCO Engineering, LLC

This manual is prepared for the use of Concrete Precast Products, Inc., and is in conjunction with drawings prepared by DANSCO Engineering, LLC.