

PCI GFRC Exam Study Guide



PCI MNL-130 is available for reference during quality control processes in the plant; however, the PCI GFRC exam is a closed book test. This study guide is provided to help examinees to focus on some critical items that need to be committed to memory.

DIVISION 1

- A. Quality assurance program
- B. Samples

DIVISION 2

- A. Molds
 - 1. Materials
- B. Inserts and embeds
- C. Panel marking
- D. Stripping
- E. Storage
- F. Cleaning
- G. Loading support
- H. Face finishing techniques
- I. Anchoring natural stone
- J. Acceptability of appearance

DIVISION 3

- A. Production variables that can cause color variations
- B. Cement requirements
- C. Sand requirements (sieve)
- D. Aggregate sizes
- E. Usage of wet or dry sand
- F. Water quality requirements

DIVISION 4

- A. Mix proportioning of face mixes and backup
- B. Batching tolerances
- C. Fiber content
- D. Spraying
- E. Compaction
- F. Gfrc shrinkage
- G. Flexural strength components
- H. Moisture induced shrinkage
- I. Thermal expansion
- J. Mixing temperatures
- K. Weight of bagged cement
- L. False setting
- M. Minimum grfc backing thickness
- N. Frame setting and bonding issues
- O. Bonding pad dimensions
- P. Curing

DIVISION 5

- A. Raw materials requiring mill certificates
- B. Storage of admixtures and curing polymers
- C. What material changes requires re-evaluation of the face mix
- D. Testing and frequency of production testing
 - 1. Wet
 - 2. After curing
- E. Sieve Analysis
- F. Bag and Bucket Test
- G. Wash-out Test
- H. Record keeping

DIVISION 6

- A. Who determines dimensional tolerances

MISCELLANEOUS AND ADDITIONAL INFORMATION

- A. Reading welds
 - 1. Symbols
 - 2. Size
 - 3. Length
 - 4. Notes
 - 5. Field and shop
- B. Reading shop tickets
 - 1. Dimensions
 - 2. Frame sizes and offsets
 - 3. Anchor types and
 - 4. Square footage
- C. PCI Policy 28, Section 6, Glass Fiber Reinforced Concrete (GFRC) Technician/Inspector Program