

Part 642 – Specifications

Chapter 3 – National Standard Material Specifications

Material Specification 540—Glass Fiber Reinforced Polymer (GFRP) Bars for Concrete Reinforcement

A. Scope

This specification covers the quality of GFRP bars for use in reinforced concrete.

B. Quality

- (1) GFRP bars shall be free from soil, grease, paint, or other deleterious matter.
- (2) GFRP bars for concrete reinforcement shall conform to ASTM D7957.
- (3) In the absence of an ASTM for GFRP dowels, round smooth steel bars shall be used for dowels and conform to ASTM A615.

C. Storing and Handling

GFRP bars stored at the worksite shall be stored according to manufacturer recommendations. The bars shall also be stored above the ground surface on skids or other supports, kept clean, dry, out of direct sunlight and away from temperatures high enough to soften the polymer.