



ABHUA INNOVATION PRIVATE LIMITED

GFRP REBAR HANDLING & STORAGE

- Use Protective Hand gloves while handling the GFRP rebars. In case if irritation to skin happens wash the hand with warm water and apply some calcium carbonate powder on skin.
- Prevent bending, coating with earth, oil, or other material, or otherwise damaging the GFRP reinforcement.
- When handling GFRP reinforcement, use equipment that avoids damaging or abrading the GFRP bar. Lift bundles of GFRP reinforcement at multiple pickup points. Do not drop or drag GFRP reinforcement.
- GFRP reinforcing bars shall be stored above the surface of the ground on platforms, skids, or other supports as close as possible to the point of placement.
- Discoloration, fading or chalking of the surface can occur due to oxidation or UV exposure. However, this is cosmetic only and will not affect the performance of the bar. For prolonged exposure under direct sunlight, protective cover is recommended to minimize these effects.
- If stored outdoors for more than 4 months, the GFRP reinforcing bars shall be covered with opaque plastic or other types of cover that protect the bars from ultraviolet rays.
- Prevent exposure of GFRP reinforcing bars to temperatures above 120 °F during storage.
- No field fabrication is permitted except tying of GFRP reinforcing bars, field cutting in accordance with the design or placement drawings, or both.
- Tying: Use same tying methods as for steel rebar. Tie wire material based on contractor preference. Tie wire shall be plastic- or polymer-coated wire. For applications requiring complete electromagnetic neutrality, glass GFRP (GGFRP) bars shall be tied in place using nylon or plastic wire (zip) ties.
- Field cut GFRP reinforcement only when specifically permitted using cutting methods specified by or acceptable to the Architect/Engineer.
- When GFRP reinforcing bars are cut in the field, shear cutting is not permitted. When field cutting of GFRP bars is necessary, use a fine blade saw, grinder, carborundum or diamond blade. Sealing the ends of fiberglass bars is not necessary.
- In general, the field handling and placement of GFRP bars is similar to coated steel rebar (epoxy or galvanized), but with the benefit of weighing one fourth the weight of steel.