



10478 Ridge Road Medina, New York 14103  
Phone: 585-735-9668 | Toll Free: 888-290-9522 | Fax: 585-735-9965  
www.vpcfiberglass.com

## COMPOSITE MANHOLE COVER AND FRAME SET

### GENERAL

- Materials: Fiber Reinforced Plastic
- Containing 45%- 70% fiber reinforcement
- Resin matrix must be thermoset

### USEABILITY

- Product must facilitate easy removal by one person
- Minimum strength to weight ratio = 750:1
- There shall be no possibility of corrosion welding between the cover and the frame, preventing damage to the infrastructure during opening
- Integrated gasket system to reduce traffic shock and abatement of noise and malodors

### PEDESTRIAN SAFETY

- Non-conductivity of electricity
- Heat insulating
- Skid slip performance greater than 0.6, ASTM standard C1028

### LOAD CARRYING CAPACITY

- US Load Specification: AASHTO M306-05 H-20 & H-25 traffic requirements of 50,000 lbs., with 100,000 lbs. ultimate load bearing
- EU and International Load Specification: EN 124 Class A-D, Class D must meet 400kN load requirements and set requirements

### FATIGUE PERFORMANCE

- 2 million cycles at 16,000 lbs.
- No visible damage
- Must meet allowable permanent set for the applicable class
- Performed in a manner approximating the field installation as accurately as possible
- Must then pass the proof load requirements U.S. AASHTO M306-05 H-20 & H-25 or EN 124 Class A-D

### CORROSION PERFORMANCE

- Superior performance in aggressive environments
- Sewer
- Petrochemical
- De-icing solutions
- Saltwater

### MARKINGS

- AASHTO M 306-05
- Country of Origin

### QUALITY & WARRANTY

- Warranty products for 5 years
- Dimensional tolerances of 1/16 of an inch
- Random Sampling production

### LOCKING MECHANISM

- Quarter Turn Paddle Lock
- Cam Lock
- T-handle lock