

McGard LLC

SPECIAL PRODUCTS DIVISION

3875 California Road·Orchard Park, New York 14127·(800)669-6887·FAX (716)662-8985

MAN-LOCK SPECIFICATION

1.0 Required Function

The McGard Man-Lock (manhole lock bolt) is designed to secure a manhole cover in order to protect against unauthorized access to the manhole.

2.0 Overall Design Criteria

The Man-Lock is designed as a security bolt. It functions either as a direct replacement of an existing manhole bolt or it is installed after a simple retro-fit of the existing manhole cover.

3.0 Specific Design Criteria

- a. The bolt is made from alloy steel.
- b. The bolt is fully heat treated and tempered to 150,000 PSI (1040 MPa) minimum tensile strength.
- c. The head of the bolt is selectively hardened in the areas subject to attack to a minimum hardness of Rc 58 and a minimum depth of .04 in. (1.0mm).
- d. The bolt is constructed with either a flat seat or 120° included angle cone seat, depending on customer specifications or requirements.
- e. Standard bolt sizes are either 5/8-11 UNC-2A or 1/2-13 UNC-2A.
- f. The bolt will be operated by means of a pattern. This pattern is a recessed, curvilinear groove in the top face of the bolt head.
- g. The pattern is individually registered with the customer.
- h. A special mating key is required to operate in the pattern for installation and removal of the lock. Replacement keys are only available through McGard, and only sold to authorized personnel.
- i. The outside of the bolt head has a special thread used to mount a protective, weather resistant plastic cap. The cap is included with each lock.
- j. The bolt is triple nickel and chrome plated in order to meet an ASTM B-368 CASS (copper accelerated acetic acid salt spray) corrosion test for 22 hours minimum before red rust.

Specifications subject to change without notice. Please consult McGard LLC regarding specific questions or requirements at 1-800-669-6887 or (716) 662-8980.