

## REXUS Manhole Cover Case Study

### Security and Ergonomics Lead Broomfield to REXUS

#### Primary Selling Points



ONE-MAN OPERABLE



ANTI-THEFT/SECURITY

The City and County of Broomfield, Colorado, faces many of the same problems that plague municipalities across America: employee back and foot injuries caused by the heavy weight of conventional cast-iron manhole covers; homeland security issues related to access to underground systems; debris dumped into manholes by pranksters; and even theft of the covers themselves. So Broomfield was particularly receptive to features of REXUS manhole covers that address these issues.

An initial presentation was made to the Utility Operations Division of the Broomfield Public Works Department explaining the advantages of REXUS covers. During a follow-up demonstration Utility Operations, the Engineering Division, and the Human Resources Department (asked to participate due to its involvement with workers' compensation claims resulting from manhole-related injuries) found the security and worker safety features of REXUS especially compelling.

- **Security** — REXUS offers a variety of security options. An anti-theft spline, located in the hinge housing, is activated when the cover is lowered into the frame. A standard integral spring bar locking system requires insertion of a pick axe blade or crowbar-type tool to deactivate. Two different locking kits (Penta and SCS) are also available; they can be installed at the factory or retrofitted to covers in the field, and are activated or deactivated with a special handling key.
- **Worker Safety** — The ergonomically positive hinged design of the REXUS cover provides a quantum leap in efficiency compared to standard covers. The hinge design reduces the physical effort required to lift the cover by 50%, and retains the cover in a safe and controlled way during and after the lift. Additionally, thanks to the use of ductile iron, the REXUS cover is 50% lighter than comparable cast-iron covers, greatly lowering the potential for back injuries and the associated worker compensation claims.



Broomfield officials decided to specify REXUS 24" manhole covers for the first 3,000-home phase of an extensive new residential development. Most covers feature the standard anti-theft spline and spring bar lock; Penta locking kits were installed on water meter manhole covers as a test (because they are easy to monitor).

There are over 6 million PAM units in the ground around the world utilizing technically advanced materials and engineering. Our focus on the needs of the end-user — rather than developing products merely to meet a minimum performance standard — led us to ductile iron, a superior alternative to cast iron in terms of weight, strength and designability.



#### Product:

REXUS hinged manhole cover

#### Municipality:

City and County of  
Broomfield, Colorado

#### Local CertainTeed PAM Representative:

Mountain States Pipe & Supply /  
Mike Warner

#### REXUS Features:

- High strength, lightweight ductile iron
- Load capacity: 100,000 pounds
- Hinged cover design for easy access
- One-man operable
- Optional locking devices available
- Independently tested and certified
- Available in 24" clear opening

#### Contact Information:



877.351.3323

[www.certainteed-pamcovers.com](http://www.certainteed-pamcovers.com)