



Medeco Architectural Product Specifications

All lock cylinders are to be of a high security, pick resistant design with angled key cuts, rotating tumblers, a keyway side biting, and a slider mechanism. Cylinders shall be Underwriters Laboratories UL437 Listed (UL Standards for Safety for Key Locks). Cylinders shall be Certified to American National Standards Institute (ANSI)/Builder's Hardware Manufacturer's Association (BHMA) certification A156.30 2003 (High Security Cylinders Products), Levels M1AM and ANSI/BHMA A156.5 2001 (Auxiliary Locks & Associated Products), Grade 1.

All cylinders shall incorporate three locking elements, consisting of a slider mechanism, a sidebar mechanism with tumbler elevation. The critical parts of the locking mechanism such as pins, shear line, sidebar, and slider mechanism shall be afforded extra protection from drilling and other forceful attack by the strategic placement of hardened steel inserts in at least 7 possible locations within the cylinder. The lock tumblers shall combine a dual-axis action, with one axis utilized for pin tumbler rotation and the other axis utilized for positioning key cuts. Randomly selected tumbler pins shall incorporate a hardened steel insert for additional drill protection.

The locking system is to be furnished in a restricted key section for which keys are not made available from the manufacturer's factory or any other source by normal distribution methods. The key and cylinder must have utility patent protection so as to ensure against unlawful key duplication. Key blanks must be capable of being furnished to allow an upgrade to a dual mechanical and electronic credential by the single exchange of a field removable key bow. They key thickness should be no less than .125" (one hundred, twenty-five thousandths).

The manufacturer shall have the capability of establishing a key system with a minimum of six angle cuts in six possible pin positions with the capability of two distinct positions of cut per pin chamber, if required by the parameters of the system. They manufacturer shall have the capability of producing a patent-protected keying system in either of two distinct and different keying specifications and pinning specifications. The system shall be capable of incorporating a key which is capable of more than one biting per position to expand master keying and key changes. The key shall also incorporate the capacity to include twelve possible side bittings along the key blade located on two different planes or surfaces of the key. They system shall also have the capability to provide a single master key with over 1,000,000 (1 million) usable, non-interchangeable change keys in a single keyway.

They cylinders shall be immediately rekeyable to new combinations or a new system at any time desired and shall be serviceable on location in the field. Installation of cylinders shall require no modifications to U.S. manufactured commercial grade locksets.

The locking system established for this project shall be proprietary and the owner will furnish the manufacturer a list of those personas and their signatures that will be authorized and required to order additional pinned materials or duplicate keys. Orders not bearing authorized signatures will not be filled.