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MEDECO 4 High Security Key System Suggested Architectural Specifications

All lock cylinders are to be of a high security, pick resistant design with angled key cuts, rotating tumblers, a key mounted movable element, and a side biting with sidepin locking mechanism, all interacting with sidebar locking. Cylinders shall be Underwriters Laboratories Listed Standard – UL437– for key locks. Cylinders shall be certified under American National Standards Institute (ANSI)/Builder's Hardware Manufacturer's Association (BHMA) certification A156.30 2020 (High Security Cylinders Products), "Levels M1AAAM," and ANSI/BHMA A156.5 2020 (Certified Auxiliary Locks & Associated Products) "Grade 1."

All cylinders shall incorporate three locking elements, consisting of a sidepin mechanism with sidebar locking, tumbler rotation with sidebar locking, and split pin tumbler elevation. The critical parts of the locking mechanism such as pins, shear line, sidebar, and sidepin mechanism shall be afforded extra protection from drilling and other forceful attack by the strategic placement of hardened steel inserts in at least 8 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 or material hardening 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 and without proper authorizations. The key and cylinder must have utility patent protection to protect against unlawful key duplication. The keys must have a movable element to further resist key duplication or replication. The key system, keys, and cylinders must be capable of being furnished to allow an upgrade to either of a dual mechanical and electronic cylinder and credential or a dual technology key by the single exchange of a field removable key bow. The 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 key system. The system shall be capable of incorporating a key that 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 up to four possible side bittings along the key blade. The system shall also have the capability to provide a single master key with over 1,000,000 (1 million) usable, non-interchanging, change keys on a single keyway profile.

The cylinders shall be immediately rekeyable to new combinations or a new key system as necessary and shall be serviceable in the field. Installation of cylinders shall be available for a majority of U.S. and international commercial grade lock brands and types, and require no modification to operate properly. Cylinder brand shall be supported by a nationwide US professional dealer network and worldwide distribution network.

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

All master keys and biting lists for this project shall be sent using appropriate shipping carriers from the factory directly to the owner. Prior to shipment of keys, the owner shall verify in writing preference for shipping carrier.

Cylinders for new construction projects shall be available with construction keying or temporary interchangeable cores as appropriate and necessary.

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