In addition to ensuring that products satisfy the requirements of this standard, other factors should be taken into consideration when selecting locks, latches and locking plates. These include:

- **SUPPORT SERVICE**
  - The correct installation of locks, latches and locking plates is essential to ensure that they are able to operate efficiently within the performance levels described in this standard. Specialist advice is available from ABHM members in support of their products from specification stages through to supply, effective operation online.

- **CE marking**
  - Mechanically operated locks and latches intended for use on fire/smoke control doors within the **DEU** are covered by a Construction Products Directive mandating the display of CE mark during the conformity assessment of such products. CE marking provides a presumption of conformity with the essential safety requirements of the applicable directives, such as the General Product Safety Directive (2001/95/EC). The CE mark is not an indication of product performance. It is a symbol of compliance, indicating that the product meets the required standards that have been determined by a notified body or a Notified Body for the product(s) in question.

- **CE conformity**
  - The CE conformity marking symbol (CE mark), depicted at least 5 mm high, and in a box, shall accompany the product and shall be included in installation instructions.

- **Related standards**
  - Other European standards related to BS EN 12209 are:
    - BS EN 12209:1999 Cylinder locks (ABHM Best Practice Guide available)
    - BS EN 13808:2002 Lever handle and furniture (ABHM Best Practice Guide available)

- **Test reports and certificates**
  - Electromechanical locks and latches (as drafted in brief)
  - WI 33/250 Multipoint locks and latches (as drafted in brief)

- **Information in this guide is correct at time of publication and intended for guidance only. Information may since have changed and readers should consult the appropriate standards and/or EC Certificates of Conformity.**
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**DHF Best practice guide: Mechanically operated locks, latches and locking plates to BS EN 12209**

**CLASSIFICATION**

BS EN 12209 classifies mechanically operated locks, latches and locking plates using an 11-digit coding system. This has proved necessary in order to provide a proper assessment of all the various features of products for specific markets within Europe. It should be noted that there is a greater proportion of borehole, certain features have been "doubled up" e.g., durability and with side load; door mass and closing force, corrosion resistance and temperature resistance. The system is comprehensive but has led to the use of abbreviations (rather than character) in certain boxes, since there can only be one digit in each classification box. A similar classification system applies to all building hardware products standard (at least for the first 7 boxes) to aid meaningful comparisons with related products.

The DHF recommends the use of graphic icons to enhance clarity of information and has devised a system to facilitate rapid reading of the various product classifications. Each feature within the product classification is represented by an icon comprising four elements; Symbol, Grade/Type, Range/Options and Box.

The icon above is for a product which meets Grade 2 in the Category of Use classification, where EN 12209 stipulates a range of three possible grades from 1 to 3.

Full details on the AHM graphic icon system can be found at www.ahm.org.uk

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### Tabular Representation of BS EN 12209 Classification

<table>
<thead>
<tr>
<th>Digit</th>
<th>Type of key operation and locking</th>
<th>Grade/Type</th>
<th>Range/Options</th>
<th>Box</th>
<th>Field of door application</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digit 5</td>
<td>Fire resistance</td>
<td>Grade 0</td>
<td>not approved for use on fire resisting door assemblies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digit 6</td>
<td>Field of door application</td>
<td>Grade 5</td>
<td>Fibre floor applications - hinged or sliding doors with and without mortise lock; with or without keys operated latches</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digit 7</td>
<td>Security and drill resistance</td>
<td>Grade 0</td>
<td>lock without follow-through; manually locking lever or knob</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digit 8</td>
<td>Type of key operation</td>
<td>Grade 6</td>
<td>lock with spring lever or knob</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digit 9</td>
<td>Type of key operation</td>
<td>Grade 7</td>
<td>lock with light spring lever</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digit 10</td>
<td>Type of key operation</td>
<td>Grade 8</td>
<td>lock with heavy spring lever</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digit 11</td>
<td>Key identification</td>
<td>Grade 9</td>
<td>lock with manufacturer’s own specification</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Example**

This indicates a mechanically operated lock and locking grade intended for use in situations where there is an incentive to exercise care; that will withstand a test of 4000 cycles with a 150 Nda load on the latch bolt on a door of up to 300 kg in mass; that will move at a maximum speed of 300 mm/s, that is suitable for use on a fire resisting door, that has no safety locking requirement that has moderate corrosion resistance over a temperature range of -20°C to +80°C that has high security and drill resistance that is above mortise lock with manual locking that is suitable for ungritted furniture and that has five detaining elements with a minimum of 15,000 actions.