CODES & STANDARDS FOR “DOORS & WINDOWS”

Following are key codes & standards to remember for Civil Estimators to prepare the tender/bid proposal in correct manner.

Codes & Standards are published documents that establish specifications and procedures designed to ensure the reliability of the materials, products, methods, and/or services use in construction industry.

These Codes & Standards also make it easier to understand and compare competing products.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)


ASTM A653/A653M : Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process


ASTM C542 : Standard Specification for Lock-Strip Gaskets


ASTM A36/A36M : Standard Specification for Carbon Structural Steel

ASTM A108 : Standard Specification for Steel Bar, Carbon and Alloy, Cold-Finished


ASTM A1008/A1008M : Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable
<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM A666</td>
<td>Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.</td>
</tr>
<tr>
<td>ASTM A924/A924M</td>
<td>Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process</td>
</tr>
<tr>
<td>ASTM C1048</td>
<td>Standard Specification for Heat Treated Flat Glass – Kind HS, Kind FT Coated and Uncoated Glass</td>
</tr>
<tr>
<td>ASTM E283</td>
<td>Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen</td>
</tr>
<tr>
<td>ASTM E331</td>
<td>Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference</td>
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</tbody>
</table>

**STEEL DOOR INSTITUTE (SDI)**

<table>
<thead>
<tr>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>ANSI/SDI A250.8</td>
<td>Recommended Specifications for Standard Steel Doors and Frames</td>
</tr>
</tbody>
</table>

**UNDERWRITERS LABORATORIES, INC. (UL)**

<table>
<thead>
<tr>
<th>Specification</th>
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</tr>
</thead>
<tbody>
<tr>
<td>UL 10A</td>
<td>Standard for Safety Tin-Clad Fire Doors</td>
</tr>
<tr>
<td>UL 10B</td>
<td>Standard for Safety Fire Tests of Door Assemblies</td>
</tr>
<tr>
<td>UL 10C</td>
<td>Standard for Safety Positive Pressure Fire Test of Door Assemblies</td>
</tr>
</tbody>
</table>

**FACTORY MUTUAL ENGINEERING CORPORATION (FM)**


**AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)**

<table>
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<th>Specification</th>
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</table>
AMERICAN HARDBOARD ASSOCIATION (AHA)
AHA A135.4 : Standards for Basic Hardboard

DOOR AND HARDWARE INSTITUTE (DHI)
DHI : Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames.

NATIONAL WOODWORK MANUFACTURERS ASSOCIATION (NWMA)
NWMA 1.S.1 : Series for Wood Flush Doors

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
NFPA 80 ; Standard for Fire Doors and Other Opening Protectives
NFPA 105 ; Standard for Smoke Door Assemblies and other Opening Protectives
NFPA 252 : Standard Methods of Fire Tests of Door Assemblies

GLASS ASSOCIATION OF NORTH AMERICA (GANA)
GANA Glazing Manual

CONSUMER PRODUCT SAFETY COMMISSION (CPSC)
CPSC 16 CFR 1201 ; Standards for Architectural Glazing Materials
DOOR AND ACCESS SYSTEMS MANUFACTURER’S ASSOCIATION (DASMA)

ANSI/DASMA 102  :  Specification for Sectional Overhead Type Doors

BRITISH STANDARDS (BS)

BS 459  :  Specification for Match boarded wooden door leaves for external use
BS 952 (Parts 1 and 2)  :  Glass for glazing
BS 4868  :  Specification for Profiled aluminium sheet for building
BS 4873  :  Aluminium alloy windows and doorsets-Specification
BS 6262 (Part 1 to Part 7)  :  Glazing for Buildings
BS 6510  :  Steel-framed windows and glazed doors

AMERICAN WELDING SOCIETY (AWS)

AWS D1.1/ D1.1M  :  Structural Welding Code – Steel
AWS D1.3/ D1.3M  :  Structural Welding Code – Sheet Steel

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO 9004  :  Managing for the sustained success of an organization - A quality management approach