Simple Ways to Adopt and Reference ASTM International Standards for JSMO

ASTM International
27 May 2021

www.astm.org
Topics

1. ASTM International and Memorandum of Understanding Overview
2. Simple Ways to Adopt and Reference ASTM International Standards
3. Standards Tracker®
4. Questions
ASTM International
and Memorandum of Understanding Overview
Operating Globally

- ASTM is one of the world’s largest Standards Developing Organizations, with global reach and influence
- With over a century of experience, ASTM offers trusted, relevant, and high quality standards that are accepted globally
  - Established in 1898
  - 30,000 volunteer members from 154 countries
  - 147 main committees and 2,102 subcommittees, covering over 90 industry sectors
- The choice for many global industries
  - 45% outside USA
Attributes of Standards Systems that Produce International Standards

Open and Transparent Process
– Direct and equal participation to ASTM for all people and organizations
– Information on ASTM International standards are transparent and readily available online

Impartial, Consensus-Based Model of Engagement
– Balanced system where producer votes are equal to those of users
– Impartial, inclusive, and fair to all, with appeals and protections to avoid abuses

Effective and Relevant Standards
– Constantly responding to market needs, keeping pace with industry and innovation
– Relevant to the global marketplace and performance-based in application

Driven by Research, Data, and Science-Based Decisions
– Focus on science and technical quality, and specifically addressing risks and needs

Collaboration with Other Standards Bodies to Avoid Duplications
– Collaborate with other standards organizations to avoid duplication and to pursue international standards work in a smart way
ASTM Process: Full Alignment with WTO Guidance on International Standards Development

ASTM INTERNATIONAL

Ensure an open and transparent process

Provide impartial consensus based model of engagement

Produce effective and relevant standards

Driven by research, data and science-based decisions

Collaborate with other standards bodies to avoid duplication

Connect globally so all stakeholders contribute and benefit

WORLD TRADE ORGANIZATION

WTO TBT Principles

Transparency

Openness

Impartiality and Consensus

Effectiveness and Relevance

Coherence

Consideration of Developing Nations
Access ASTM Anywhere in the World

Electronic Tools

- **Participation**
  - Webex virtual meetings
  - Personal “MyASTM” webpage
    - Committee update
    - Balloting
    - Draft document development/collaboration

- **Communications/Engagement**
  - Standardization News
  - E-News
  - Social media
  - Standards Tracker Tool

- **Products & Services**
  - Proficiency Testing Programs
  - Certification and Declaration Programs
  - Training and E-Learning
  - COMPASS

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Memorandum of Understanding (MoU)

ASTM International

- Full collection of ASTM Standards (that may be used for reference, adoption, as basis of national standards, and consultation)
- Membership at no cost to participants from Jordan
- Information, training, and partnership

JSMO

- Access to information on ASTM through a link on the JSMO homepage along with ASTM logo
- Encourage active participation of Jordanian stakeholders in ASTM technical committees
- Utilization of ASTM standards where relevant and appropriate
- Annual Report on use of ASTM standards

117 MoU partners worldwide

8,700+ citations of ASTM Standards in 75 nations
Jordan Standards and Metrology Organization

Primary Contact: Ms. Basma Hashem Assaf
basma.assaf@jsmo.gov.jo
Simple Ways to Adopt and Reference ASTM International Standards
Six Ways to Adopt and Reference ASTM

Available to all Public and Private Standards’ Users
- Referenced in Regulations
- Normative Reference
- Code Reference

Available Only to MoU Partners
- Identical Adoption
- Equivalent Adoption
- Used as the Basis of a National Standard or Consulted
Uses of ASTM International Standards

Referenced in Regulation

ASTM International standard is called out, either in whole or in part, in a regulation, law, decree, rule, act, directive, order, edict, etc. (i.e. any official government document other than a National Standard).

The content of the ASTM standard, either in whole or in part, is intended to be used as an additional requirement of the new regulation.

8,700+
ASTM standards have been adopted, used as a reference, or used as the basis of national standards outside the USA.
Referenced in Regulation

WARTA KERAJAAN PERSEKUTUAN

FEDERAL GOVERNMENT

GAZETTE

PERATURAN-PERATURAN PELINDUNGAN PENGUNA
(STANDARD KESELAMATAN BAGI MAINAN)
(PINDAAN) 2016

CONSUMER PROTECTION (SAFETY STANDARDS FOR
TOYS) (AMENDMENT) REGULATIONS 2016

16.  EN 71-5  5  Safety of toys – Part 5: Chemical toys (sets) other
      than experimental sets

17.  EN 62115  -  Electric toys – Safety

18.  IEC 62115  -  Electric toys – Safety

19.  ASTM F963  -  Standard consumer safety specification for toy
      safety

Amendment of Second Schedule

3.  The Second Schedule to the principal Regulations is amended—

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Uses of ASTM International Standards

Normative Reference

ASTM International standard (title only) is called out in the text of National Standard and its title also appears in the “Referenced Documents” section of the National Standard. The content of the ASTM standard, either in whole or in part, is intended to be used as an additional requirement of the new National Standard.

ASTM International complies with all 6 principles of an International Standards Developer as defined by the WTO
2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2740, Sintered materials, excluding hardmetals — Tensile test pieces

ISO 3369, Impermeable sintered metal materials and hardmetals — Determination of density

ISO 4498, Sintered metal materials, excluding hardmetals — Determination of apparent hardness and micro-hardness


ISO 6892-1, Metallic materials — Tensile testing — Part 1: Method of test at room temperature

ISO 9227, Corrosion tests in artificial atmospheres — Salt spray tests

IEC 60404-4, Magnetic materials — Part 4: Methods of measurement of d.c. magnetic properties of magnetically soft materials

ASTM D2638, Standard Test Method for Real Density of Calcined Petroleum Coke by Helium Pycnometer

ASTM D4862, Standard Test Method for Density of Solid Pitch (Helium Pycnometer Method)
A code consists of requirements and referenced standards that a jurisdiction or authority enforces through legislation, statutes, contracts etc. A jurisdiction or authority can adopt a model code without changing it, modify part of the code, or develop its own code. Examples of such codes include the International Building Code of the International Code Council (ICC) or the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME).

More than 450 ASTM standards are referenced in the International Building Code.
Benefits of Direct Reference

- Minimizes duplication and conflicting guidance in industry
- Able to stay current with most up-to-date technology generated by industry experts around the world
- Reduces development time for new regulations and eliminate costs associated with developing new country specific regulations

**CHAPTER 35 REFERENCED STANDARDS**

User note:

*About this chapter:* The International Building Code® contains numerous references to standards promulgated by other organizations that are used to provide requirements for materials and methods of construction. This chapter contains a comprehensive list of all standards that are referenced in this code. These standards, in essence, are part of this code to the extent of the reference to the standard.

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 102.4.

**ICC 2021 International Building Code – Referenced Standards**

- **A6/A6M—2017A** Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes and Sheet Piling
  1810.3.2.3, 1810.3.5.3.1, 1810.3.5.3.3
- **A36/A36M—14** Specification for Carbon Structural Steel
  1810.3.2.3
- **A153/A153M—2016A** Specification for Zinc Coating (Hot-dip) on Iron and Steel Hardware
  2304.10.6
- **A240/A240M—17** Standard Specification for Chromium and Chromium-nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications
  Table 1507.4.3(1)
Additional Uses of ASTM International Standards for MoU Countries

Adopted as an Identical Standard

- ASTM International standard is considered, in its entirety, to be the National Standard recognized by the National Standards Body

Adopted as an Equivalent Standard

- ASTM International standard is considered, with limited deviation, to be the National Standard recognized by the National Standards Body

“ASTM standards help us develop our national standards and are deeply utilized in industries such as construction, petroleum products and medical equipment.”
STAMEQ, Vietnam
Identical National Adoption of an ASTM standard

This Final Draft Uganda Standard, FDUS 2082:2018, is based on ASTM D5481 –13, Standard Test Method for Measuring Apparent Viscosity at High-Temperature and High-Shear Rate by Multicell Capillary Viscometer, Copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428, USA, pursuant to license with ASTM International.
Equivalent National Adoption of an ASTM standard

PHILIPPINE NATIONAL STANDARD

PNS ASTM C 1048:2013
(ASTM published 2012 with Amendment 1:2013)
ICS 81.040.20

Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass

BUREAU OF PRODUCT STANDARDS

PHILIPPINE NATIONAL STANDARD

PNS ASTM C 1048:2013
Amendment 1:2013

Amendment

This amendment to the PNS ASTM C 1048:2013 was prepared by the Bureau of Product Standards Technical Committee on Glass and Glass Products (BPS/TC 28).

<table>
<thead>
<tr>
<th>Clause/ Sub-clause</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1.11</td>
<td>Delete the whole subclause 6.1.11</td>
</tr>
<tr>
<td>11.1</td>
<td>Replace the whole text of subclause 11.1 with the following: The identification marking shall include the manufacturer's name or trademark, and the designation of heat-strengthened or tempered, or an abbreviation such as HS or T.</td>
</tr>
<tr>
<td>11.1.2</td>
<td>Delete the whole subclause</td>
</tr>
</tbody>
</table>

Explanation

The amendment to the original text of ASTM C1048 was prepared to emphasize the requirement for permanent identification marking.
Requirements for Adoptions

- To provide ASTM written notice of the ASTM Standards it plans to adopt and will obtain written approval from ASTM prior to such adoption;
- To publish its adoptions (derivative works) of ASTM Standards without, as much as possible, change to the original and agrees to maintain the integrity of the ASTM Standards;
- Not to assign or transfer any rights it may have in its Adoptions, and not to submit or provide ASTM standards or its Adoptions to any other standards body(s) or organizations (whether national, international or other) for use, review or approval, without the prior written consent of ASTM International’s President;
- To provide ASTM International with electronic files of the Adoptions;
- To provide recognition: “This National Standard is based to ASTM XXXX-XX, Title, Copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428, USA. Published and reprinted pursuant to license agreement with ASTM International”;
- To acknowledge and agree that the adoption, enactment, reference, or incorporation of any of the ASTM Standards by any government or agency, including the national standards body, has not and will not effect, transfer, modify or alter the copyrights of the ASTM Standards in any way;
- To provide ASTM with a complete list of its adopted ASTM Standards in the Annual Report to ASTM or upon request.
Sample Request Letters

19 June 2019

MR. JAMES P. OLSHEFSKY
Director
ASTM INTERNATIONAL
100 Harbor Drive,
West Conshohocken, PA 19428-2950, U.S.A.
Email: jolshefsk@astm.org

Dear Mr. Olshefsky,

In compliance with our Commercial Agreement, we would like to request your approval for the use of the following ASTM Standards as reference and for possible adoption as Philippine National Standards:

2. ASTM C595 / C595M - 16 Standard Specification for Blended Hydraulic Cements
3. ASTM D3775 - 17e1 Standard Test Method for End (Warp) and Pick (Filling) Count of Woven Fabrics
4. ASTM D3786 / D3786M - 16 Standard Test Method for Bursting Strength of Textile Fabrics - Ultrasonic Bursting Strength Tester Method
5. ASTM D592 - 09(2017) Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

Thank you and we look forward to the approval of this request.

Very truly yours,

ENGR. JAMES E. EMPEÑO
Director IV

REP: SDD-CHA-05-2019

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Additional Uses of ASTM International Standards for MoU Countries

Used as the Basis of a National Standard
- ASTM International standard is reviewed by national technical experts during the development process and used as the basis of a new National Standard for the National Standards Body.

Consulted
- ASTM document is reviewed by national technical experts during the development process of a new National Standard for the National Standards Body

Caution: Although these two methods are authorized under the terms of the MoU, technical information used in this manner may quickly become outdated.
As the Basis of a National Standard

TRINIDAD AND TOBAGO STANDARD

DRIVEWAY GATES - SPECIFICATION

TTS 641:2017

In formulating this standard considerable information was derived from the following standards which were current at the time of development of this document:

ASTM International

- ASTM F1184 – 16, Standard Specification for Industrial and Commercial Horizontal Slide Gates; and

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Conclusions

– Regulations should use the best technical guidance regardless of the “brand” of standard
– MoU nations are authorized to use ASTM International standards (with appropriate permission and attribution) if they meet the needs of the end users
– Multiple paths exist to facilitate the use of ASTM information in your respective countries
– The use of high quality, universally accepted standards is a benefit to industry, regulators and patrons
Standards Tracker®

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  - ASTM Technical Committee
  - ASTM Standard

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- Journal Paper Tracker also available with listing of newly published ASTM, peer-reviewed papers
Thank you

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