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# Simple Ways to Adopt and Reference ASTM International Standards for JSMO

ASTM International  
27 May 2021

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# ASTM International and Memorandum of Understanding Overview

# ASTM International

## 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

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## 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



## WORLD TRADE ORGANIZATION *WTO TBT Principles*

Ensure an **open** and **transparent** process

*Transparency*

*Openness*

Provide **impartial consensus** based model of engagement

*Impartiality and Consensus*

Produce **effective** and **relevant** standards

Driven by research, data and **science-based decisions**

*Effectiveness and Relevance*

Collaborate with other standards bodies to **avoid duplication**

*Coherence*

Connect globally so **all stakeholders contribute and benefit**

*Consideration of Developing Nations*



# Access ASTM Anywhere in the World

## Electronic Tools

### – Participation

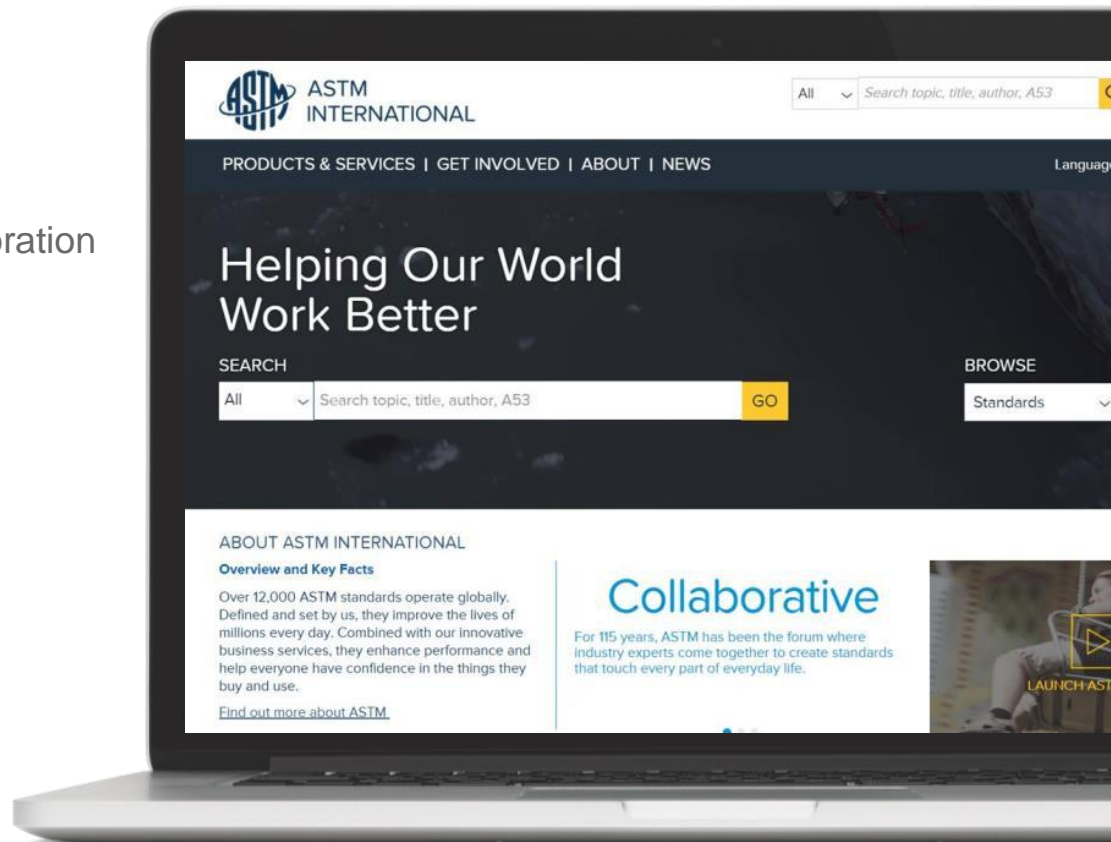
- Webex virtual meetings
- Personal “MyASTM” webpage
  - Committee update
  - Balloting
  - Draft document development/collaboration

### – 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





# 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





# JSMO Contact Information

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## Jordan Standards and Metrology Organization

Primary Contact: Ms. Basma Hashem Assaf

[basma.assaf@jsmo.gov.jo](mailto:basma.assaf@jsmo.gov.jo)



مؤسسة المواصفات والمقاييس الأردنية  
Jordan Standards and Metrology Organization



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# Simple Ways to Adopt and Reference ASTM International Standards



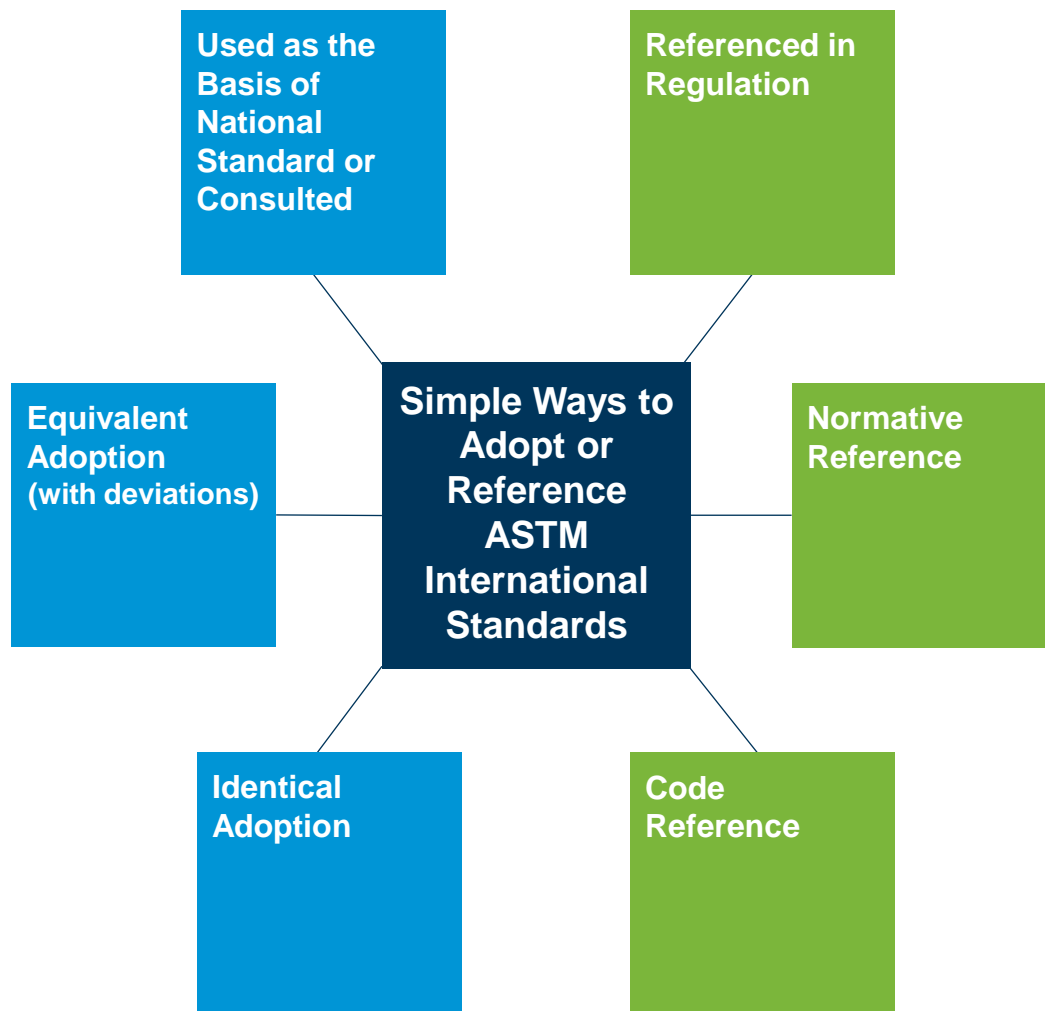
# Six Ways to Adopt and Reference ASTM

## 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

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## 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



10 Oktober 2016  
10 October 2016  
P.U. (A) 257

WARTA KERAJAAN PERSEKUTUAN

*FEDERAL GOVERNMENT  
GAZETTE*

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

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



DISIARKAN OLEH/  
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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.	<b>ASTM F963</b>	-	<b>Standard consumer safety specification for toy safety</b>

### Amendment of Second Schedule

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

7

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# Uses of ASTM International Standards

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## 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**

# Normative Reference

INTERNATIONAL  
STANDARD

ISO  
22068

First edition  
2012-07-01

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**Sintered-metal injection-moulded  
materials — Specifications**

*Matériaux métalliques frittés pour moulage par injection —  
Spécifications*



Reference number  
ISO 22068:2012(E)

© ISO 2012

## 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 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method (scales, A, B, C, E, F, G, H, K, N, T)*

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 D4892, Standard Test Method for Density of Solid Pitch (Helium Pycnometer Method)**



# Uses of ASTM International Standards

## Code Reference

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).

[ICC 2021 International Building Code – Referenced Standards](#)

450

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

[ICC 2021 International Building Code](#)  
[– Referenced Standards](#)

## 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.*

## ASTM

ASTM International  
100 Barr Harbor Drive, P.O. Box C700  
West Conshohocken, PA 19428

<a href="#">A6/A6M—2017A</a>	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
<a href="#">A36/A36M—14</a>	Specification for Carbon Structural Steel 1810.3.2.3
<a href="#">A153/A153M—2016A</a>	Specification for Zinc Coating (Hot-dip) on Iron and Steel Hardware 2304.10.6
<a href="#">A240/A240M—17</a>	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

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## 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



## FINAL DRAFT UGANDA STANDARD

FDUS 2082

First Edition  
2018-mm-dd

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**Standard Test Method for Measuring Apparent Viscosity at High-Temperature and High-Shear Rate by Multicell Capillary Viscometer**



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.



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.

Reference number  
FDUS 2082: 2018

© UNBS 2018

# 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

Member to the International Organization for Standardization (ISO)  
Standards and Conformance Portal: [www.bps.dti.gov.ph](http://www.bps.dti.gov.ph)

## 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).

Clause/ Sub-clause	Modification
6.1.11	Delete the whole subclause 6.1.11
11.1	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.
11.1.2	Delete the whole subclause

### Explanation

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



# Requirements for Adoptions

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- 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

**UGANDA NATIONAL BUREAU OF STANDARDS**



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 +256 417 333251  
 +256 417 333252  
 Telefax: +256 414 286123  
 Helpline: 0800 133133

BO/SDV/178 2017-09-04

Mr. James P. Olshefsky  
 ASTM International  
 100 Barr Harbor Drive  
 P.O. Box C700  
 West Conshohocken, PA  
 19428-2959, USA

Dear Mr. Olshefsky,

Subject: Request for permission to adopt ASTM standards

Reference is made to the memorandum of understanding between Uganda National Bureau of Standards (UNBS) and ASTM International.

UNBS would like to request ASTM International for permission to adopt the ASTM standards D473 Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction Method.

We are looking forward to your continued co-operation.

Yours faithfully,


**UGANDA NATIONAL BUREAU OF STANDARDS**



Hakim Mufumbiro  
 AG.MANAGER, STANDARDS DEPARTMENT

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<b>Nakawa</b> Plot M217 Nakawa Industrial Area P.O. Box 6329, Kampala Tel: +256 417 333250/1/2	<b>Katwe</b> Plot 64485, 3 <sup>rd</sup> Floor Quality Chemicals House Katwe Road Tel: +256 312 279484	<b>Jinja</b> Plot 06, Rippon Road Tel: 0454131127	<b>Mbale</b> Plot 53 B Nabos Road Tel:0454-431053	<b>Lira</b> Plot 26/29, Olive! Road P.O. Box 894 Lira Tel: 0372271192	<b>Mbarara</b> Plot 22, Banaruka Drive P.O. Box 276 Mbarara Tel: 048521644
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**TRABAHO NEGOSYO KONSYUMER**  
 PHILIPPINES

19 June 2019

**MR. JAMES P. OLSHEFSKY**  
 Director  
 ASTM INTERNATIONAL  
 100 Harbor Drive,  
 West Conshohocken, PA 19428-2959, U.S.A  
 Email: [lolshefs@astm.org](mailto:lolshefs@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:

1. ASTM C150 / C150M - 19a Standard Specification for Portland Cement
2. ASTM C595 / C595M - 19 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 - 18 Standard Test Method for Bursting Strength of Textile Fabrics—Diaphragm Bursting Strength Tester Method
5. ASTM D5034 - 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

REF: SDD-CHA-06-2019

**BUREAU OF PHILIPPINE STANDARDS**

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Membership:  
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 • International Electrotechnical Commission (IEC)  
 • World Trade Organization (WTO) Technical Barriers to Trade (TBT)  
 - National Enquiry Point (NEP)  
 - National Notification Authority (NNA)

# 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
- ASTM F2200 – 14, *Standard Specification for Automated Vehicular Gate Construction*.

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# Conclusions

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- 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



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# Standards Tracker<sup>®</sup>

# Standards Tracker<sup>®</sup>



- Sign up to receive free alert emails each week on Monday and Thursday with listing of new and revised ASTM standards and standards development activities
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  - ASTM Standard
- The Standards Tracker<sup>®</sup> will send alerts to your inbox based on your selection - either for newly approved standards, new work items (drafts), or both
- Journal Paper Tracker also available with listing of newly published ASTM, peer-reviewed papers

The screenshot shows an email header with the ASTM logo and tagline 'ASTM INTERNATIONAL Helping our world work better'. The main heading is 'Standards Tracker Alert'. The body of the email is addressed to a 'Standards Tracker Customer' and explains that the alert notifies them of newly published standards and work items. It provides instructions on how to view document summaries and purchase standards, and offers contact information for technical support. Two specific standards are highlighted: A101 (reapproved as A101-04) and A1032 (reapproved as A1032-15).



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# Thank you

Teresa Cendrowska  
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