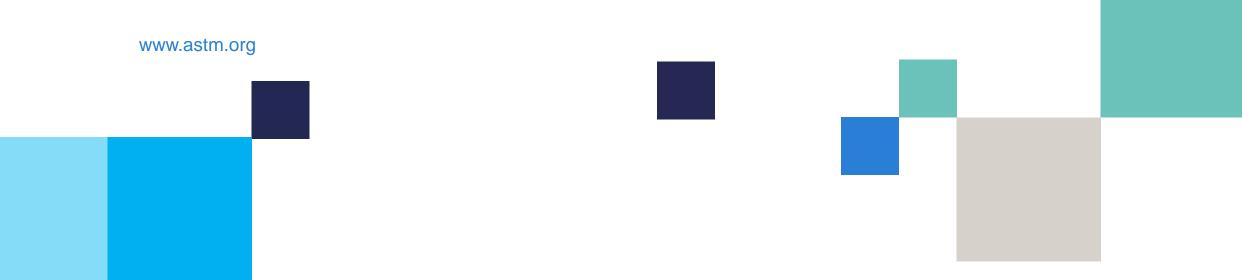


ASTM INTERNATIONAL Helping our world work better

Editorial Module: Process of Developing and Revising a Standard







>New Standard Activity >Work Items Development Tools ► Writing Tools ASTM Standard ➢ Revisions ➢ Review ➢ Publication



Developing a new standard

Review an existing standard

Revising an existing standard

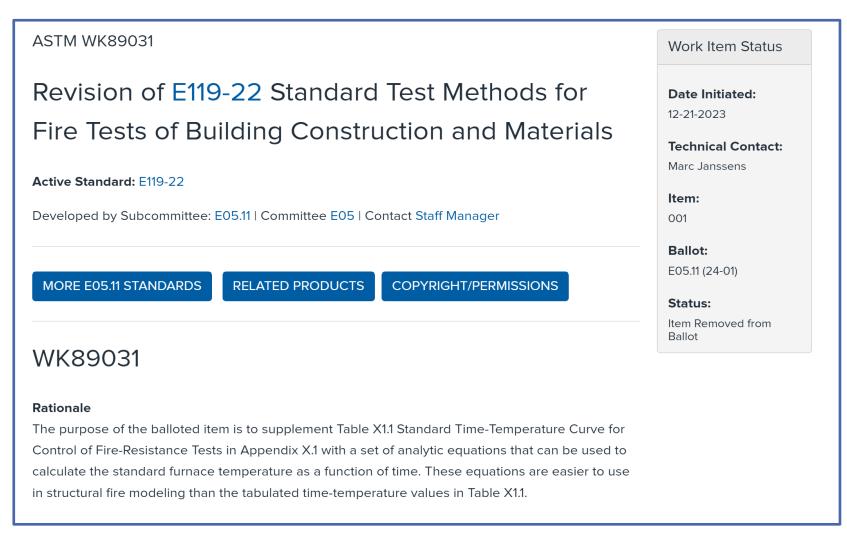
Work Items



- Authorization is required, either from Subcommittee Chair or Subcommittee Members at a meeting
- Register Work Item at <u>www.astm.org</u>
 - ✓ New Standard Title, Scope, Keywords
- Provides tracking number & required for balloting, example, WK89005
- An email with a link to the WORD version of the standard will be sent to the technical contact when revising an existing standard.

Work Item Summary





Standard Development Tools





 Writing Resources
 Draft Templates
 Developmental Editing (Up-front Editor)
 Collaboration Area
 Virtual Meetings

Collaboration Area/Virtual Meetings



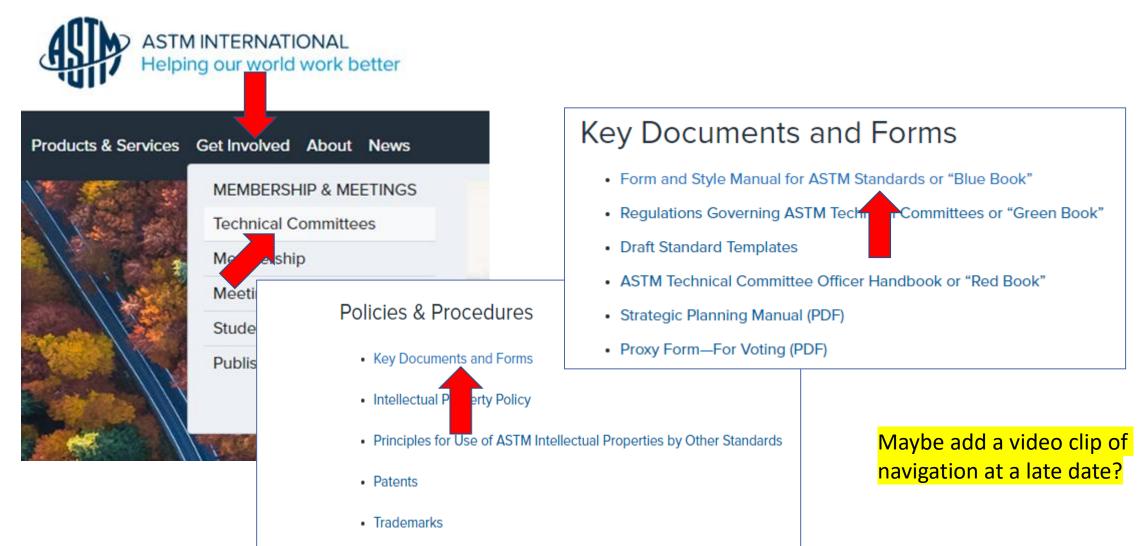
	Mana
	Current Collaboration Area 71844 - WK71844 - Fire Resistance of Geo
'1844 -	WK71844 - Fire Resistance of Geosynthetics
Collaboration	rea Drafts Polls Discussions Files
Group Creatio WorkItem Crea Ballot Target I Work Item Sta	is: Proposed
Group Creatio WorkItem Crea Ballot Target I Work Item Sta Status: Draft W	Date: 02/05/2021 tion Date: 02/07/2020 ate: 01/2021 is: Proposed



WRITING RESOURCES

Form and Style Manual



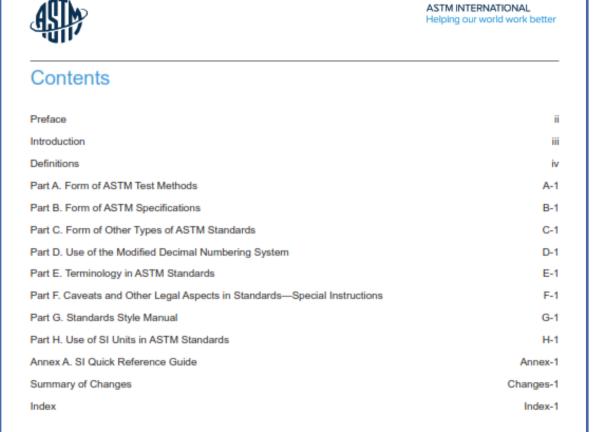


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The Form and Style for ASTM Standards

Why Form and Style?

- ➤The manual is the basic textbook for anyone writing an ASTM standard.
- The purpose of this manual is to promote uniformity of form and style in ASTM standards.
 - ✓ Such uniformity is desirable because it helps the user of the standard to find what is needed more easily and to understand what is read more quickly.







➢A study of Parts A, B, C, or E will show the proper form for the principal types of standards (Test Methods, Specifications, Guide/Practice, and Terminology) along with a detailed explanation of what should be included, and guidance on how best to build a standard.

✓ Within Parts A, B, C, and E, the first section lists the preferred sequence of headings and indicates whether these sections are mandatory. The headings identified as "mandatory" are required.



- ➢ For easy reference purposes, each paragraph in an ASTM standard shall be numbered. The modified decimal numbering system is explained in <u>Part D</u>.
- Part E on Terminology gives instructions for preparing a technical standard's definitions as well as how to format a committee's main terminology standard.
- Special instructions concerning patents, use of trademarks, open-end agreements, fire standards, and other legal issues are given in Part F.





- Part G is a detailed Style Manual and is what your committee editor refers to most while editing the standard.
- >Included in the section are:
 - ✓ Standard abbreviations and unit symbols for use in standards.
 - ✓ Information on grammatical corrections:
 - Capitalization
 - Hyphens
 - Italics
 - Spelling

Part G



≻Also included in the section are:

- ✓ Instructions on Referencing:
 - Standards
 - Papers and Other Documents
 - Trademarks
- ✓ Directions for Formatting:
 - Figures
 - Tables
 - Footnotes
 - Mathematical Material
 - Numbering



- >ASTM policy is that SI units be included in all standards.
- Part H is included to aid the standards writer in incorporating these units correctly.
 - ✓ It is the technical committee's decision whether SI or other units are the preferred unit of measurement used in the committee's document. When SI and non-SI units of measurement are contained in a document, the order in which they appear is determined by that committee.



Submit Your Draft in Word





TCO takes your WORD file and converts it to PDF for the ASTM website online balloting area.

Development

Developmental editor works directly with you in WORD to develop your draft.

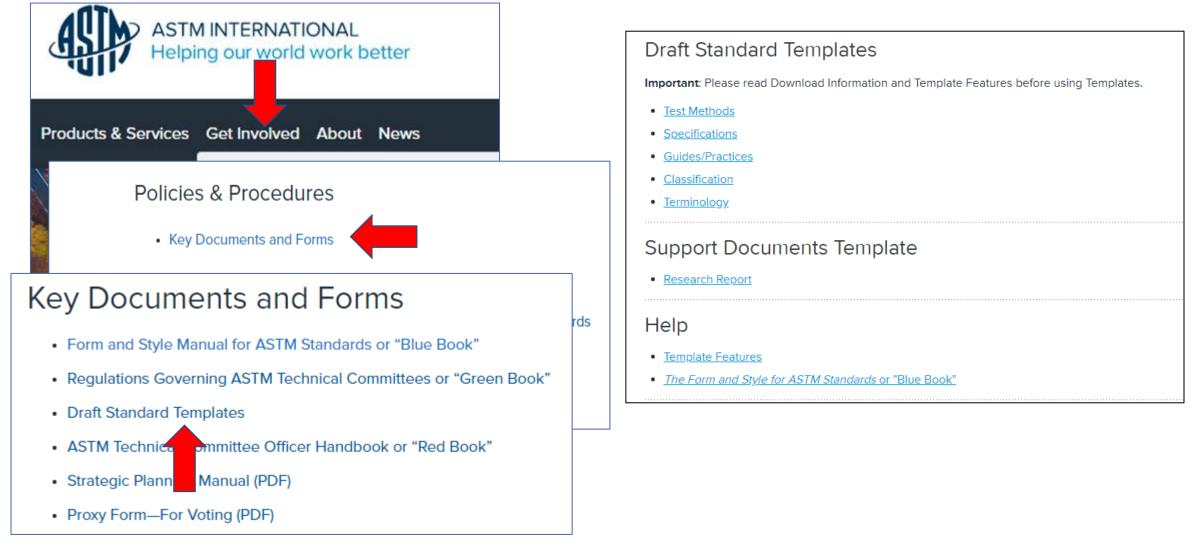


Edit/Conversion

The committee editor converts the WORD file into XML (Extensible Markup Language) for composition and electronic publishing purposes.

ASTM Templates







ASTM Templates

Why use our templates?

- Helps the balloting process go more smoothly
 - ✓ Reduces negatives submitted for style issues
 - ✓Line numbering included to help with committee discussions
- Prompts/reminders of sections for each type of standard





- Suggested and mandatory headings are provided; mandatory headings are in RED
- Dialog box prompts to insert Title and Footnote 1
- Ability to insert tables, figures, and equations
- Auto Numbering

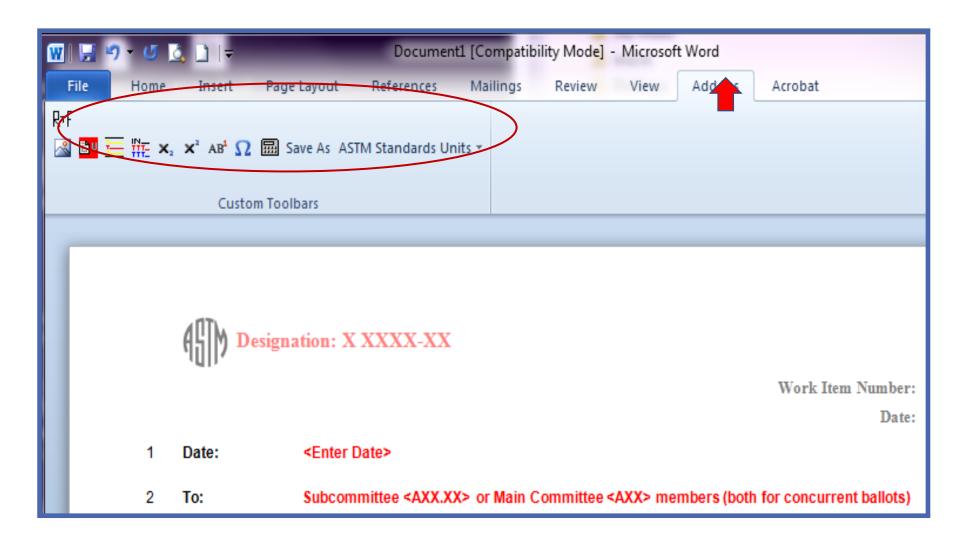
✓ Will renumber sections and subsections but will not update section references

Screen Shot of Template



ofo: A tes th	STM Standard Properties	<			
or reap	Work Item Number Date e.g.:MM/DD/Y				
	WK1234 1/13/22				
	Standard Test Method for				
	Cellular Insulation Block				
the :	Main Committee Designation and Title e.g.: A01 on Title of Main	ndard			
odov	C16 Thermal Insulation				
t pui	Subcommittee Designation and Title	iated			
ility (e.g.: A0.01 on Title of C16.26 on Mechanical Properties	ity and			
e the	,				
	Okay Cancel				







This button will insert figures into the draft.

- ✓ It will then prompt you to locate the appropriate image file on your computer and the figure will be automatically inserted at the end of the draft.
- This is the Auto Update button. This button initiates an "ASTM Standard Properties" pop-up window that prompts you for the Draft
- Title, Main Committee Jurisdiction, and Subcommittee Jurisdiction.
- This button creates a table in ASTM's style and inserts it at the end of the draft.
 - ✓ If table data has already been completed in another file, the table may be manually inserted or pasted at the end of the draft without using this button.



- This button will create an in-text table, in ASTM's style, based on your specifications, and insert it directly after the text that introduces it. This table will NOT have a title or a border.
- These are the Subscript and Superscript buttons, and they are usually used in equations. You would not use these for footnotes.
 - This is the footnote button. Just click this and the superscript footnote reference will be placed in the text, and you will be directed to the bottom of the page to fill in the appropriate information for the footnote.



- This is the Insert Symbol button, which will enable you to add Greek letters and mathematical symbols into equations and text.
- This is the Insert Equation button, which will prompt you to insert an equation and number it correctly for you.
- ▲ STM Standards Units → This is the ASTM Standard Units button, which will enable you to place the correct Form and Style Units statement into your standard. Place your cursor in the Scope and then click on the button and select the statement you require from the drop-down menu. The unit statement will overwrite the explanatory statement.

Developmental Editing (Up-front Editor)



- If you have questions while drafting a standard, contact the developmental editor.
- Developmental editor can be reached by phone or e-mail. Kathleen Peters, <u>kpeters@astm.org</u> or 610-832-9650
- > Developmental editor can help you with:
 - Answering questions about the Form and Style for ASTM Standards and how to apply our style to standards
 - ✓ Questions regarding our templates
 - ✓ Upfront editing of new, revised, reinstated standards
 - ✓ Assisting with artwork issues



Submit clean, readable figures

✓ If revising an existing figure for ballot, submit changes to our Developmental Editor

>TIF, JPG & AUTOCAD formats are acceptable

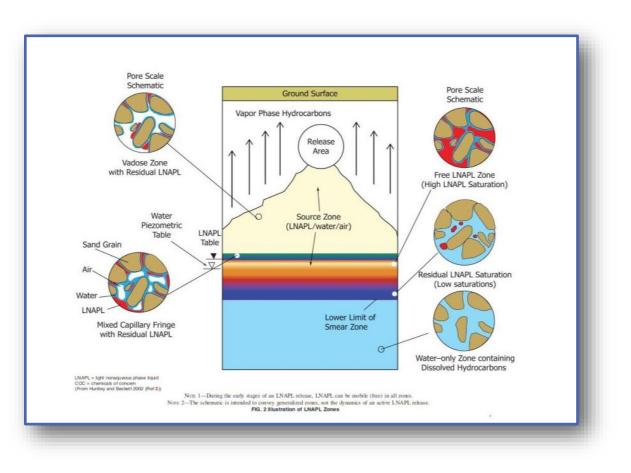
The graphics department will work with what you have

Figures and Artwork



≻Color Figures✓PDF Downloads✓Online Volumes

SVG Figures✓ Searchable✓ Expandable





BALLOTING





>ASTM has three levels of balloting:

- ✓ Subcommittee
- ✓ Main Committee/Concurrent
- ✓ Society

Ballots are open for a minimum of 30 days, all ballots are done online

Negatives and Comments received during the ballot

Separate session on <u>Balloting & Handling Negative Votes</u>

Electronic Revision Preparation



- Always keep a clean copy of standard
- > Determine if entire document is to be balloted, or just sections
- Consider how much context is needed for a revision to make sense to the voter
- Use Track Changes to make revisions

Example of Revision on Ballot



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Desi	gnadon. 1 02 10 - 10
ITEM 1	_
Date:	February 16, 2024
To:	Subcommittee F17.65
Tech Contact:	John Kurdziel (260-409-5218)
Work Item #:	WK89684
Ballot Action:	Revision of F3219
Rationale:	ASTM F2764 and F2881 have

Rationale: ASTM F2764 and F2881 have updated their material and density requirements to permit the use of modifiers and process aids. This standard has the same material compound properties as these two other polypropylene standards, which are for sanitary and storm sewer applications, respectively. This revision to this land drainage standard will align it with those two other higher application standards.

Standard Specification for 3 to 30 in. (75 To 750 mm) Polypropylene (PP) Corrugated Single Wall Pipe and Fittings¹

This standard is issued under the fixed designation F3219; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

5. Materials

5.1 *Polypropylene*—Polypropylene compounds used in the manufacture of corrugated single wall pipe shall have the minimum properties as shown in Table 1. Polypropylene compounds shall be comprised of the base polypropylene virgin material and all additives, colorants, process aids, modifiers, UV inhibitors, and stabilizers. Polypropylene compounds can be pre-compounded or made in-situ during pipe extrusion by combining natural polypropylene material with a color masterbatch or other additives, or both. Conditioning, sampling, preparation and testing of molded specimens shall be in accordance with the requirements in Specification D4101. Material for preparation of molded specimens shall be taken from the pipe. Compounds that have a higher cell classification in one or more performance properties shall be permitted provided the density of the base resin final formulation shall not exceed 0.0343 lb/in.³ (0.950 g/cm³) 0.0509 lb./in³ (1.410 g/cm³) and all other product requirements are met.

TABLE 1 Polypropylene Compound Properties						
Property	ASTM Test Method	Units <mark>(</mark> SI Units)	Minimum Value			
Melt Flow Rate (at 446°F (230°C))	D1238	g/10 min	0.15			
Density	D792, D1505	lb/in ³ (g/cm ³)	0.0325 (0.900)			
Tensile Strength at Yield	D638	psi (N/mm²)	3500 (24.1)			
Elongation at Yield	D638	% (%)	5 (5)			
Flexural Modulus (1% secant)	D790	psi (N/mm²)	175,000 (1200)			
IZOD Impact Strength (73°F(23°C))	D256	ft-lb/in (J/m)	8 (427)			
Oxidative-Induction Time (392°F (200°C))	D3895	min	25			

5.2 Color and Ultraviolet (UV) Stabilization—The pipe shall be colored or black. Black polypropylene compounds shall have between 2.0 and 3.0 percent carbon black when tested in accordance with the procedures in Test Method D4218 or in combination with D5630. Colored polypropylene compounds shall be protected from Ultraviolet (UV) degradation with UV stabilizers. Colored polypropylene compounds shall contain sufficient UV protection to allow pipe made according to this standard to be stored outdoors for at least two years from the date of manufacture without degradation of the stated properties.

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While the Standard is Balloting



- > Your committee editor begins the editing process, which includes:
 - ✓ Typesetting/converting Word document to XML
 - Ensuring the standard matches balloted draft
 - ✓ Scanning and placing artwork
- Ensuring that sections, tables, and figures are cited and numbered correctly:
 - ✓ This includes checking that sections and cross-references are correct (for example, See Table 1.)



The Editor will also:

- Verify titles of ASTM standards in the Referenced Documents section and confirm that they are all cited in the text
- >Ensure conformance with Part G on Style, including:
 - ✓ Confirming that all mandatory sections are included and in the correct order
 - ✓ Reviewing supplier footnotes for compliance with Part F
- >Check for general page layout, including:
 - ✓ Table and Figure placement
 - \checkmark Excessive white space on each page

Typical Corrections



> Grammar

- Typographical errors
- > The editor will ensure that:
 - ✓ Certain formats or spellings appear consistently throughout the standard
 - ✓ Trademarked terms are replaced with generic terms (for example: "Pyrex" becomes "borosilicate glass")
 - ✓ Technical terms are spelled in accordance with Form and Style for ASTM Standards. A list of preferred spelling can be found in Part G

Editorial versus Technical Changes



Editorial changes do NOT change the meaning or intent of a standard and do NOT require balloting.

✓ Changes can be made during review process

Technical changes do CHANGE the meaning or intent of a standard and REQUIRE balloting.

✓ Changes must be made on the next ballot

Editorial Change Examples



Address changes for referenced organizations, sole sources of supply, etc.

- ≻Misspelled words
- Minor text edits that improve readability but do not change the content
- >Update titles of standards (ASTM and others)

Technical Change Examples



Changing permissive language to mandatory language: For example, may to shall

> Text edits that change the intent of standard

Changing a single units of measurement standard to a dual measurement standard. For example, SI units only to Combined SI/Inch-Pound units

Changing values in tables and equations (unless supported by existing balloted text)



REVIEW & PUBLICATION

Item Receives Approval



> An item will receive official Society approval on the 1st or 15th of the month.

- > Once an item receives Society approval:
 - $\checkmark\,$ The editor is notified
 - ✓ The editor prepares the standard for review by the technical contact listed on the ballot
 - ✓ If editorial changes were provided during the balloting process or as the result of negative vote resolution, the editor includes those changes in the standard sent for review

Review Process



- The editor e-mails a licensed PDF and redlined PDF of the standard for review.
 - This redline is not an ASTM standard and is intended only to provide the user of an ASTM standard an indication of what changes have been made to the previous version. In all cases only the current version of the standard as published by ASTM is to be considered the official document.
- This email:
 - ✓ Will provide a PDF of the ballot item
 - ✓ Will include any questions or comments from your editor

Reviewer's Checklist



- The reviewer should ensure that all balloted information appears correctly in the printed standard
- Address any questions the editor may have posed in the review email or on the review PDF
- Typical questions include:
 - ✓ Citation of Referenced Documents in the text
 - ✓ Addition of Keywords
 - ✓ References to numbered sections that don't appear in the text
- The reviewer should respond to the editor by the stated deadline. This ensures the timeliest publication of the new standard. Contact the editor immediately if an extension is needed.

Final Publication



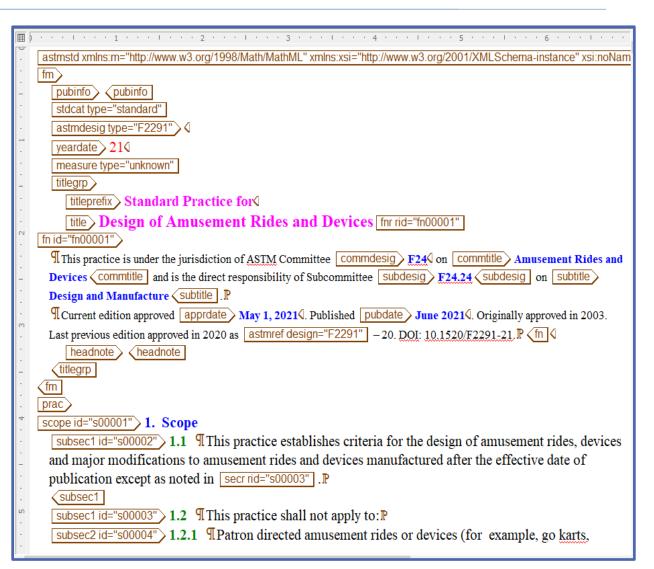
- Editor sends final approved standard to ASTM website team
 - No further changes can be made to this version of the standard, unless an epsilon is issued, or the standard is balloted again.
- Within several days, the standard is available on the website and on Compass
 - > The ASTM Standards Tracker can alert you when it is available.
- The ASTM website will always have the most current version of the standard.
- The printed Annual Book of Standards will contain the standards available at the time of its publication

XML and Standard Formats



Why XML?

- XML is the backbone of many features of our standards that make them user-friendly.
- Editing/converting your standard to XML allows us to:
 - ✓Hyperlink figures, tables, and sections within your standard
 - ✓ Enables ASTM to highly structure our content so that it is consistent across standards and formats.
 - ✓ Provide members and customers with different formats of the standards



Final Version/PDF



- PDF version is the official version of the standard.
 - ≻Two-column format
- ➢Blue links redirect the user to our website
- ➢Red internal links help with navigation within the document.

The international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of Interna and Standards, Galdes and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Co

Designation: F2291 - 21

Standard Practice for Design of Amusement Rides and Devices¹

This standard is issued under the fixed designation F2291; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of hot revision. A runnber is parentheses indicates the year of last reapportal. A superscript epidon (7) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice establishes criteria for the design of amusement rides, devices and major modifications to amusement rides and devices manufactured after the effective date of publication except as noted in 1.2.

1.2 This practice shall not apply to:

- 1.2.1 Patron directed amusement rides or devices (for example, go karts, bumper cars, bumper boats),
- 1.2.2 Artificial climbing walls, 1.2.3 Air-supported structures,
- 1.2.4 dry slides,
- 1.2.5 coin operated rides,

1.2.6 Amusement rides or devices that involve the purposeful immersion of the patron's body partially or totally in the water and involves more than incidental patron water contact (for example, pools, water slides, lazy rivers, interactive aquatic play devices).

1.2.7 Amusement rides and devices whose design criteria are specifically addressed in another ASTM standard,

- 1.2.8 Portions of an amusement ride or device unaffected by a major modification.
- 1.2.9 Upgrades to electrical wiring, electrical motors and electrical components of amusement rides and devices provided the original design and safety criteria are maintained or enhanced, and

1.2.10 Pre-existing designs manufactured after the effective date of publication of this practice if the design is service proven or previously compliant and the manufacturer provides: 1.2.10.1 A historical summary of the amusement ride,

device or major modification, and 1.2.10.2 A statement that the design is service proven or

previously compliant as specified by Section 3. 1.2.10.3 Amusement rides and devices, and major modifications to amusement rides and devices may qualify as "previously compliant" for five years following the date of publication of this practice. Thereafter, amusement rides and devices, and major modifications to amusement rides and

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devices must qualify as "service proven" or meet the requirements of this practice.

1.3 This practice includes an annex (mandatory), which provides additional information (for example, rationale, background, interpretations, drawings, commentary, and so forth) to improve the user's understanding and application of the criteria presented in this practice. The annex information shall be interpreted as mandatory design criteria.

1.4 This practice includes an appendix (non-mandatory), which provides additional information (for example, rationale, background, interpretations, drawings, commentary, and so forth.) to improve the user's understanding and application of the criteria presented in this practice. The appendix information shall not be interpreted as mandatory design criteria.

1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.6 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards F770 Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices

F1159 Practice for Design of Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards

F1193 Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices

F2137 Practice for Measuring the Dynamic Characteristics of Amusement Rides and Devices F2374 Practice for Design, Manufacture, Operation, and

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or ontact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Stondardy volume information, rules to the standard's Decument Summary page on the ASTM webs

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⁷ This practice is under the invisiticion of ASTM Committee P24 on An Rides and Devices and is the direct responsibility of Subcommittee P24.24 on Design and Menafacture.

Carrows edition approved May 1, 2021. Published June 2021. Originally proved in 2003. Last provious edition approved in 2020 as P2291 - 20. DOI: 10.1520(2291-21

Redline Version



Sent during review

- Available as a bundled product on the public website
- ➢Available as a feature in Compass
 - In Compass, a version comparison can be generated between non-consecutive versions of a standard.

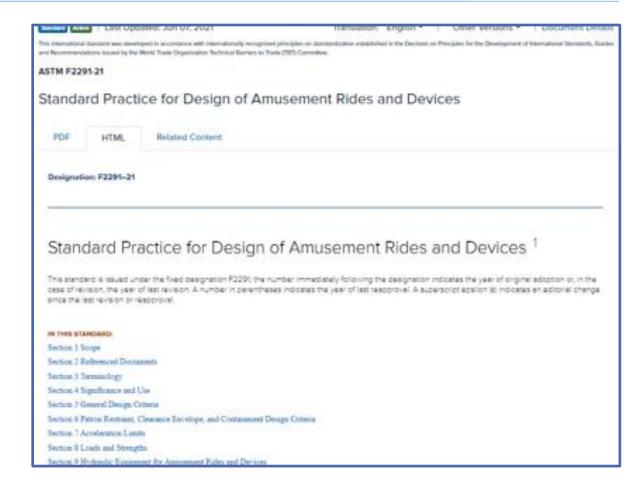
it muy not be tech	not an ASTM vindual and is immedia only to provide the user of an ASTM reasonmends that users consult prior editions as appropriate. In all cases only the currant version published by ASTM is to be considered the official document.	
	Designation: F2291 - 20 F2291 - 21	
	Standard Practice for Design of Amusement Rides and Devices ¹	
	This standard is isonal order the fixed doignation F2201; the number inmediately following the doignation indicates the year of original adaption on, in the case of revision, the year of last revision. A number in parenthoses indicates the year of last mapproval. A superscript spvikes (s) indicates an aditorial change since the last revision or negsportal.	
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1.2.4 dry sli	des,	
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and Manufacture		
Carrent edits F2291 19F229	Carrent edition approved May 4-9909May 1, 2021. Published Hum-9909fane 2021. Originally approved in 2003. Last previous edition approved in 99492020 as 2020	

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Web Version



- Great for use on mobile devices, while out in the field, or away from the office.
- SVG figures are incorporated
 - These are searchable and don't degrade when expanded.



Review



New Standard Activity ► Work Items > Development Tools ► Writing Tools >ASTM Standard ➢ Revisions Review ➢ Publication

Additional Classroom for Member Trainings



- Balloting & Handling Negatives Votes
- WebEx Training
- <u>Roster Maintenance</u>
- > Task Group Chair & Technical Contact Responsibilities
- Subcommittee Chair's Duties and Responsibilities
- Interlaboratory Studies Program
- Planning Symposia & Workshops
- Collaboration Area Training



QUESTIONS?





ASTM INTERNATIONAL Helping our world work better

Thank you for your attention!

www.astm.org

