

우리의 안전을 위한 ASTM 자료의 활용

1. ASTM

2. 우리생활의 안전과 ASTM

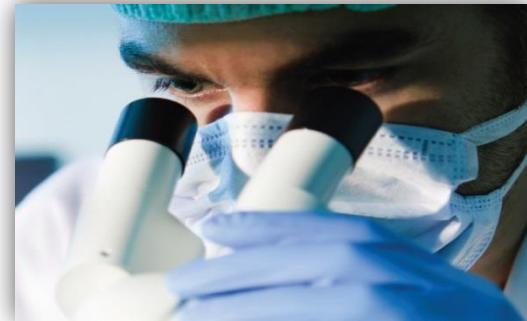
3. ASTM Standards & ASTM Digital Library

ASTM(*A*merica *S*ociety for *T*esting and *M*aterials)

- 미국 재료시험학회
- 1898년 설립, Philadelphia에 본부 소재
- 140개의 Committee와 36,000여 명의 회원구성



- 제품의 용도 및 특성을 시험
- 재료의 품질을 규격화
- 제조/연구, 이용자가 보다 좋은 재료를 선택, 사용



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ASTM Research Area

- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Environmental Engineering
- Geological Engineering
- Industrial Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Nuclear, Solar and Geothermal Energy
- Petroleum Engineering
- Soil Engineering
- Geosynthetics
- Health and Safety Engineering



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ASTM Research Area

태양광 에너지



에너지/환경



화합물 및 시험방법

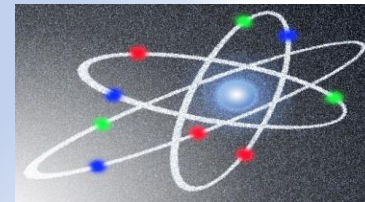


ASTM

바이오 연료



원자력 에너지



기후변화



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ASTM's New Brand Identity



ONAL
work better



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F15 Consumer Products

Pool Safety



- ✓ 욕조 및 수영장관련 인명사고 방지하기 위한 기술표준

Toy Safety



- ✓ 장난감 관련 기술표준

F18 Electrical Protective Equipment for Workers

Workplace Safety



- ✓ 건설현장에서 전기로 인해 발생하는 사고방지를 위한 기술표준

F08 Sports Equipment, Playing Surfaces, and Facilities

Head Protection



✓ 스포츠용 헬멧과 관련된 표준

Eye Safety & Protection



✓ 스포츠 및 레저 활동 중 눈을 보호 하기 위한 기술 표준

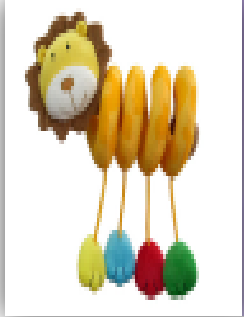
E05 Fire Standards

Cigarettes & Fire Safety



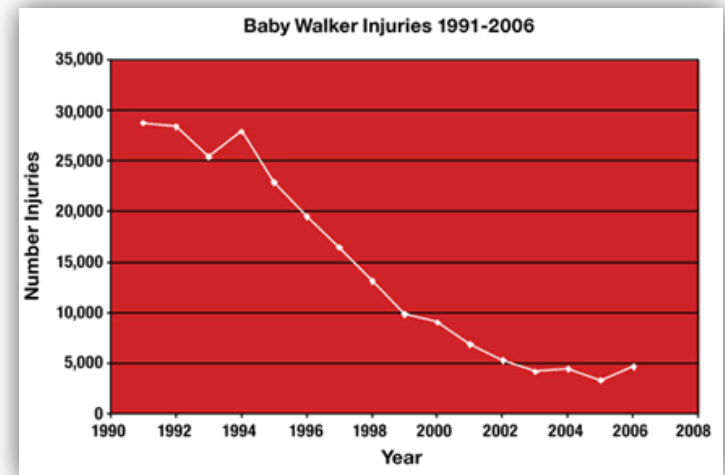
✓ 화재 예방을 위한 기술표준

우리생활의 안전과 ASTM



- ✓ 2009년 2월 10일 부터 미국 장난감 제조사는 ASTM F963-07 Standard 기준을 의무적으로 이행

- ✓ ASTM F977을 채택 후 보행기와 관련한 안전사고 감소



우리생활의 안전과 ASTM



- ✓ F2656에서 차량과 가드레일의 다양한 테스트 방법 제공

- ✓ F2993을 통하여 페러세일링의 가이드라인 제공



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송도 에어바운스 사고



중에서 비롯됐
도달한다. 이
에어바운스 미
지면서 일어난

변요원이 안전
점사도 이뤄지
따라 유기기
된다. 신종 놀
주의 안전불감
정은 에어바운

이 14명이 다
져 초등생 14
이기로 안전사
에게 엄중하게

은 이용객에게
어바운스 놀이
규정에 없다고
히 예방할 수

있다. 그래서 놀이시설이 더 이상 안전사각지대로 되지 않도록 특단의 대책을 서둘러야 한다.



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공기 새고 고정장치도 없어... 어린이 안전 위협하는 '에어바운스'

20개 업체 중 17곳 설치기준 부적합 안전관리 미흡, 불법 영업도 상당수
해마다 사고 증가 개선책 마련 시급 소비자원 "단속강화 등 건의할 것"

송시연 기자 shn8691@hanmail.net 2015년 12월 15일 화요일 제18면

댓글 0



폰트 + - ≡ ✉



▲ ※ 해당 사진은 기사와 관련이 없습니다. 사진=경기일보DB

#지난 8월 A(9)양이 에어바운스에서 넘어지면서 본인 몸에 왼쪽 팔이 깔려 타박상을 입었다. 또 지난해 9월 B(3)양도 놀이공원에서 에어바운스를 타다 넘어져 어깨뼈가 골절돼 병원 치료를 받았다.

축제장, 키즈카페 등에 많이 설치되는 에어바운스(공기주입식 놀이기구)에서 어린이 안전사고가 끊이지 않고 발생하고 있지만, 여전히 안전관리가 미흡한 곳이 많아 개선책 마련이 필요한 것으로 나타났다.

특히 높이 3m이상 또는 넓이 120㎡이하의 에어바운스는 안전성검사 비대상으로 구분되는 것은 물론, 설치에 관한 기준이 없어 대책마련이 시급한 것으로 드러났다.



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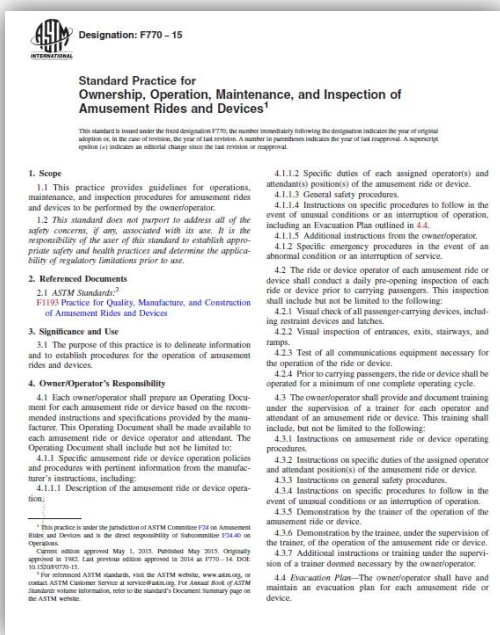
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우리생활의 안전과 ASTM

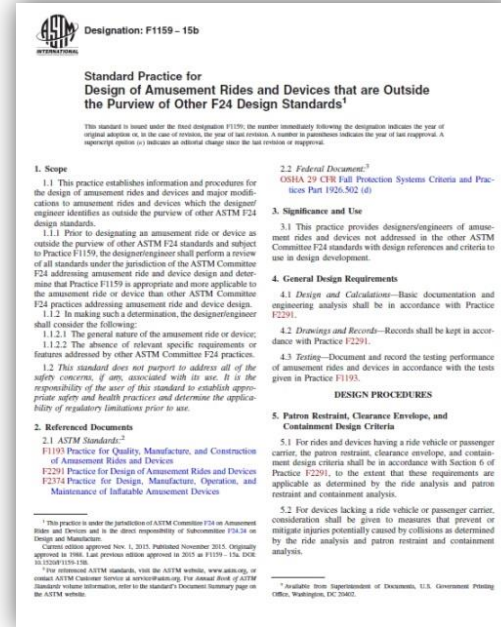


ASTM F770 Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices

- 기구의 유지 보수와 관련된 표준

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

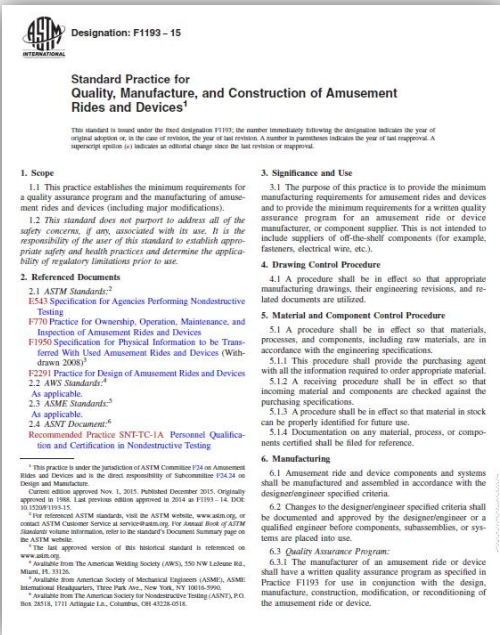
- 기구의 설계와 관련된 표준



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우리생활의 안전과 ASTM



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

- 놀이기구 제조시 필요한 요구사항과 관련된 표준

Issuing Entity:		Bulletin No.:	
Name		Release Date:	
Address		Effective Date:	
City, State Zip		Supersedes:	
Country		Completion Date:	
Phone Fax		Page: 1 of 1	
E-mail Or Web Site			
SAFETY ALERT			
Ride Manufacturer:	Affected Production Dates:		
Ride Name:	Affected Serial Nos.:		
Model Number:			
Abstract Of Issue :			
Reason for Release:			
Action To Be Taken: (Inspection, Modification, Replacement, NDI, Order Parts, Manual Revision, Procedural Change, etc.)			
Detail Of Issue: (Text/Drawings/Schematics)			

FIG. A1.1 Safety Alert Bulletin

Issuing Entity:		Bulletin No.:	
Name		Release Date:	
Address		Effective Date:	
City, State Zip		Supersedes:	
Country		Completion Date:	
Phone Fax		Page: 1 of 1	
E-mail Or Web Site			
SERVICE BULLETIN			
Ride Manufacturer:	Affected Production Dates:		
Ride Name:	Affected Serial Nos.:		
Model Number:			
Abstract Of Issue :			
Reason for Release:			
Action To Be Taken: (Inspection, Modification, Replacement, NDI, Order Parts, Manual Revision, Procedural Change, etc.)			
Detail Of Issue: (Text/Drawings/Schematics)			

FIG. A1.2 Service Bulletin



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보은군 집라인 사고



해 아무런
28일 오전 10
집라인은 높
험학습을 나
출발 지시를
과실치사
등의 책임을
제의 안전 점
뿐이다. 사
문의 놀이공



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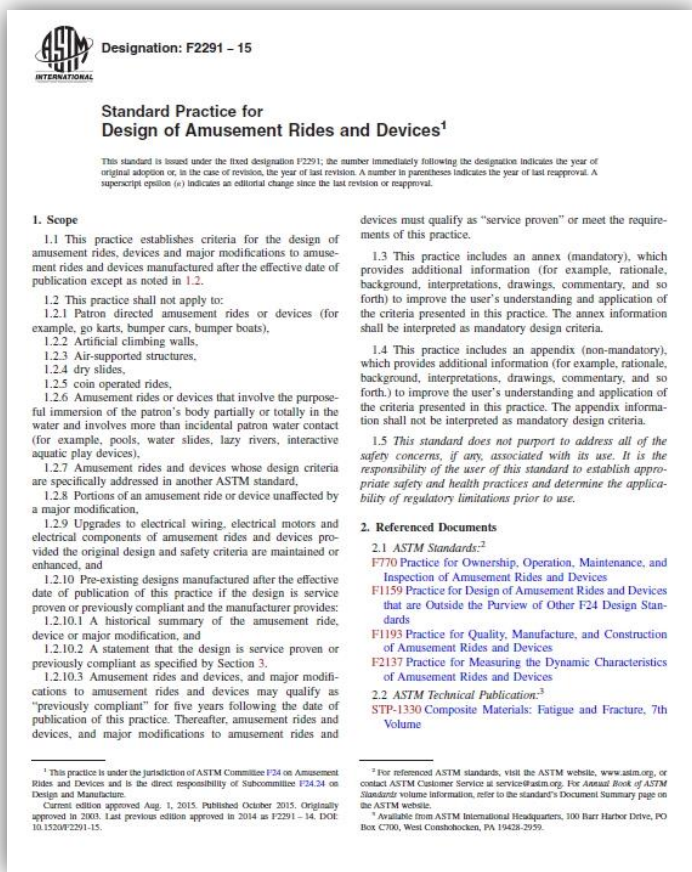
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ASTM F 2291 Standard Practice for Design of Amusement Rides and Devices¹



놀이기구 및 장치의 디자인에 관련된 기술표준

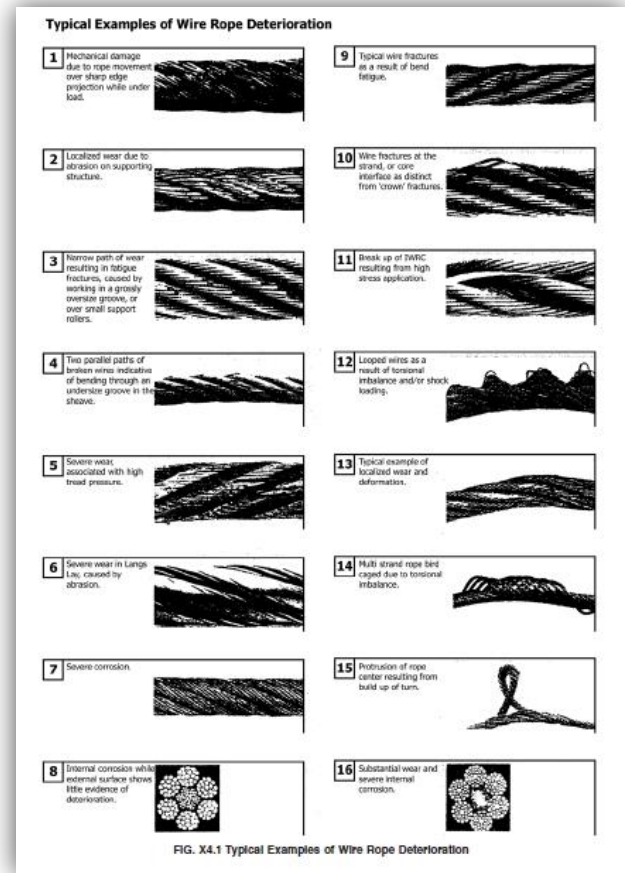
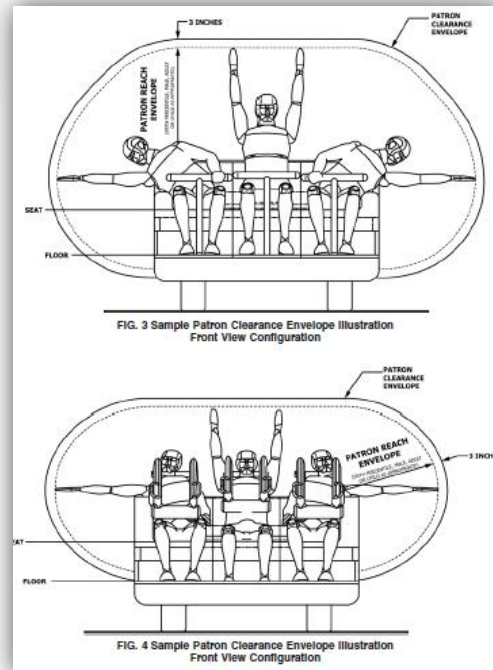
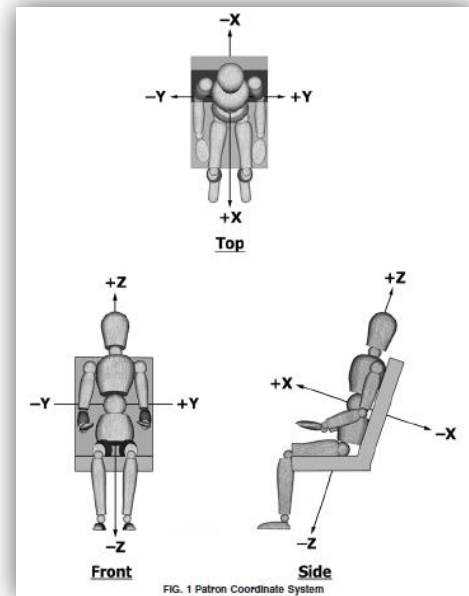
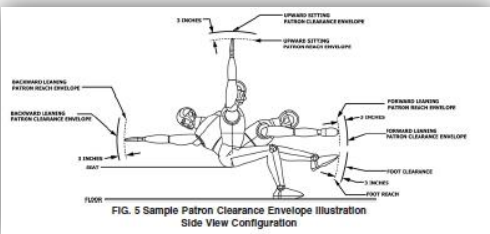


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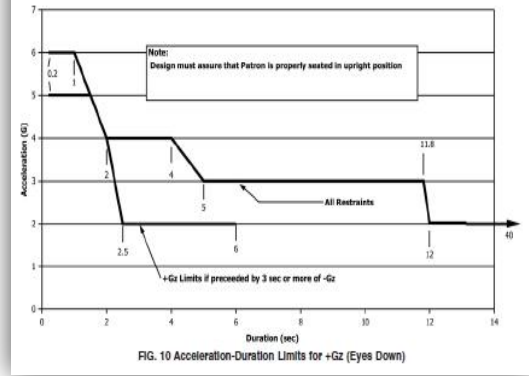
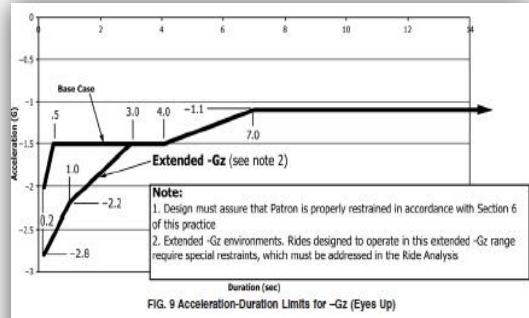
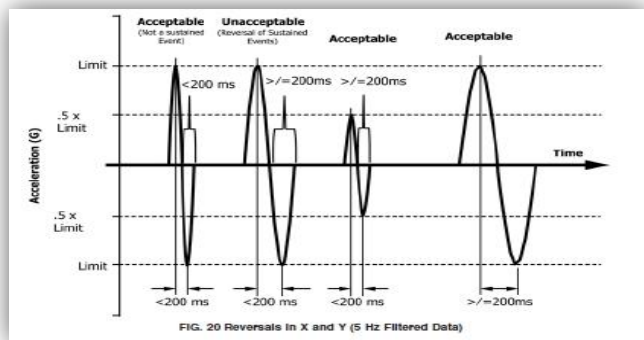
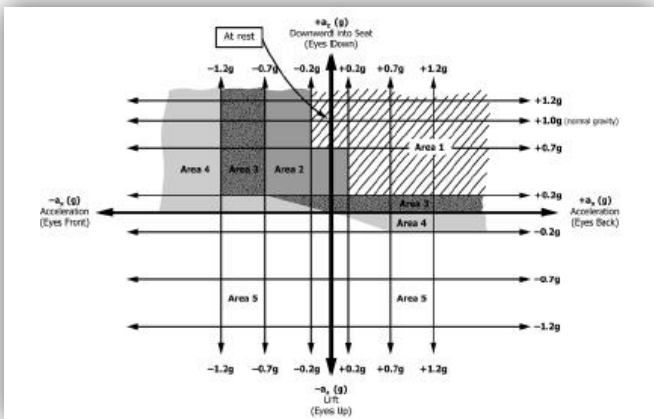
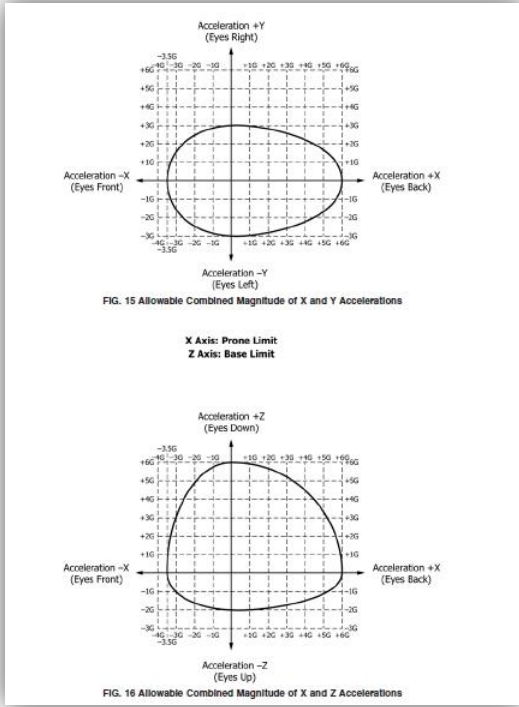
우리생활의 안전과 ASTM



탑승자의 공간확보 및 좌석위치

다양한 와이어의 분석정보

우리생활의 안전과 ASTM



가속상황에 따른 다양한 분석정보



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우리생활의 안전과 ASTM

[밀착카메라] 잇단 사고에도...안전·헬멧 벗은 스키장

[JTBC] 입력 2015-12-28 21:20 | 수정 2015-12-29 14:30

한 해 평균 1만여 명이 스키장에서의 크고 작은 사고로 병원을 찾고 있습니다. 각 스키장이 안전 대책을 마련해봐도 사고가 끊이지 않는 이유, 대부분 스키어들의 기분 내기 때문이었습니다.

날씨가 추워지면서 많은 사람들이 스키장을 찾고 있는데요. 지금 제 뒤에도 스키를 즐기는 사람들로 가득합니다.

그런데 자세히 보시면, 이 헬멧과 같은 안전장구를 갖추고 있는 사람은 절반이 채 안 됩니다.

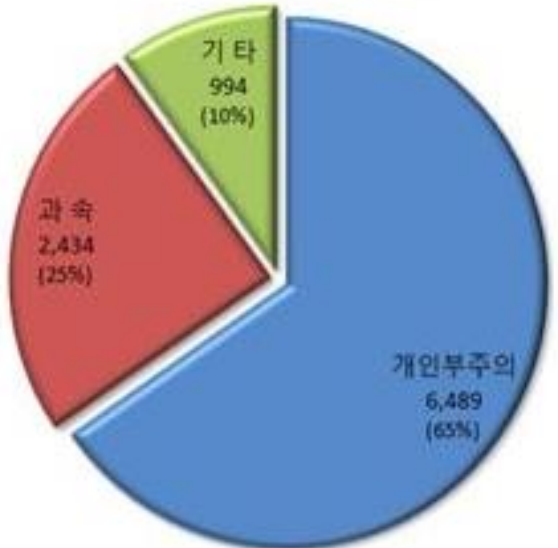
스키를 타는 사람들 상당수가 헬멧을 쓰지 않고 있습니다.

헬멧 대신 털모자나 야구모자를 쓰고 있는 사람들도 곳곳에서 눈에 띕니다.

해마다 전국 곳곳의 스키장에서 부상을 당하는 사람은 1만여 명, 이중 3000여 명이 머리를 다치거나 뼈가 부러지는 등의 중상 환자입니다.

스키장에서 발생하는 안전사고의 대부분은 안전불감증이 그 원인으로 꼽힙니다.

'나 하나쯤이야' 같은 안이한 생각이 큰 사고로 연결될 수 있다는 사실, 명심할 필요가 있습니다.



14/15시즌사고 원인별 부상자



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슈마허 스키 사고



연합뉴스

'F1 황제' 슈마허, 스키 타다 부상...혼수상태(종합2보)

기사입력 2013.12.30 오전 07:33 | 최종수정 2013.12.31 오전 08:45 기사원문

(서울·파리=연합뉴스) 김동찬 기자 박성진 특파원 = 은퇴한 '포뮬러 원(F1) 황제' 미하엘 슈마허(44·독일)가 프랑스에서 스키를 타다가 머리를 다쳐 혼수상태에 빠졌다.

dpa통신은 30일 "스키를 타다 사고로 인해 머리를 다친 슈마허가 혼수상태에 빠졌으며 현재 상태가 위험하다"고 프랑스 현지 의료진의 말을 인용해 보도했다.

슈마허는 29일 오전 11시(현지시간) 프랑스 알프스의 메리벨 스키장에서 아들과 함께 스키를 타다가 코스를 벗어나면서 바위에 머리를 부딪쳤다.

이 사고로 머리에 큰 충격을 받은 슈마허는 헬리콥터를 통해 주변 병원으로 이송됐다.

진단결과 슈마허는 두개골에 외상을 입은 것으로 나타났다.



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ASTM F2040 Standard Specification for Helmets Used for Recreational Snow Sports

스키, 스노우보드용 헬멧 표준



Designation: F2040 – 11

An American National Standard

Standard Specification for Helmets Used for Recreational Snow Sports¹

This standard is issued under the fixed designation F2040; 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.

1. Scope^a

1.1 This specification defines performance requirements for helmets used in nonmotorized recreational snow sports (such as skiing, snowboarding, and other alpine sports). This specification is a performance standard and is not intended to restrict design. Although a helmet that meets this specification will help reduce the risk of some types of injuries to the head at slower speeds, the protection is limited. The user is responsible for participating in the sport within his/her abilities and the nature of the snow conditions which may vary widely. Compliance with the common sense rules of the sport's safety, including any applicable responsibility codes, is essential to help reduce the risk of personal injury.

1.2 All testing and requirements of this specification shall be in accordance with Test Methods F1446, except where noted herein.

1.3 Partial utilization of this specification is prohibited. Any statement of compliance with this specification shall be a certification that the product meets all of the requirements of the specification in its entirety. A product that fails to meet any one of the requirements of this specification is considered to have failed the standard and should not be sold with any indication that it meets parts of the standard.

2. Referenced Documents

2.1 *ASTM Standards:*²

F1446 Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

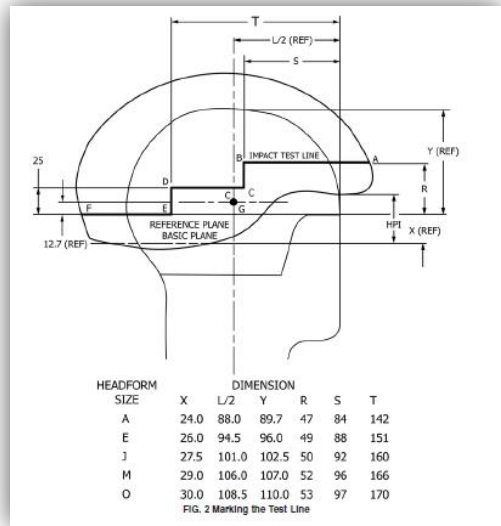
3. Headforms

3.1 Headforms to be used in this specification are as specified in the section on Test Headforms of Test Methods F1446.

¹ This specification is under the jurisdiction of ASTM Committee F108 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F108.53 on Headgear and Helmets.


Current edition approved April 1, 2011. Published May 2011. Originally approved in 2000. Last previous edition approved in 2006 as F2040 – 06. DOI: 10.1520/F2040-11.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.



ASTM F2546 Standard Test Method for Snowboard Step-in Bindings

스노우보드용 바인딩 표준



Designation: F2546 - 07 (Reapproved 2012)

Standard Test Method for Snowboard Step-In Bindings¹

This standard is issued under the fixed designation F2546; 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.

1. Scope

1.1 This test method specifies the essential requirements for a snowboard step-in binding—boot system (see 3.1.2); hereafter referred to as step-in snowboard bindings.

1.2 This test method is applicable to step-in snowboard bindings for adults and children. This type of binding system utilizes a mechanical interlocking mechanism, and the interlock mechanism of the system will be specific to the particular manufacturer. Compatibility between different systems is not expected or anticipated thus each potential combination of boot and binding requires testing.

1.3 For snowboard boots interfacing with ski binding, see ISO 11634.

1.4 For snowboard plate bindings, see ISO 14790.

1.5 For snowboard strap bindings made for soft boots, see ISO 14573.

1.6 For snowboard step-in bindings, see ISO 15344.

1.7 This standard does not address how or under what circumstances a snowboard binding with programmable release modes should release in its intended modes nor does it address the safety, desirability, or efficacy of any programmable release mode for snowboard bindings; any testing of such bindings to this standard must be performed with the release modes disabled or adjusted to their highest release value.

1.8 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²
F1107 Terminology Relating to Snowboarding
2.2 *ISO Standards:*³
ISO 554:1976 Standard Atmospheres for Conditioning and/or Testing—Specifications
ISO 6004 Alpine Skis—Ski Binding Screws—Requirements
ISO 10958-1 Snowboards—Binding Mounting Area—Part 1: Requirements and Test Methods for Snowboards without Inserts
ISO 10958-2 Snowboards—Binding Mounting Area—Part 2: Requirements and Test Methods for Snowboards with Inserts
ISO 11634 Snowboard Boots—Interface with Ski Binding
ISO 14573 Snowboard Strap Bindings for Soft Boots
ISO 14790 Snowboard Plate Bindings
ISO 15344 Snowboard Step-In Bindings—Requirements and Test Methods

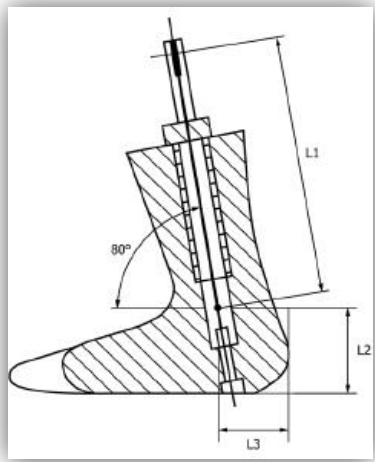
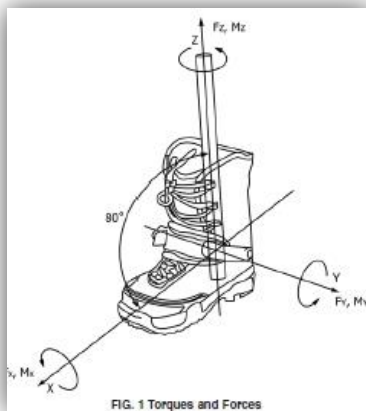
3. Terminology

3.1 *Definitions:*
3.1.1 *snowboard plate binding for hard boots*—a connecting system between a hard boot and a snowboard that is accomplished by means of a plate binding system. For reference only—not covered by this test method.
3.1.2 *snowboard step-in binding—boot system*—an interlocking system that connects a snowboard boot and a snowboard that utilizes a step-in interface.
3.1.3 *snowboard step-in binding type A*—binding suitable for riders over 45 kg body mass (adults).
3.1.4 *snowboard step-in binding type C*—binding suitable exclusively for a body mass up to 45 kg (children).

¹ This test method is under the jurisdiction of ASTM Committee F27 on Snow Skiing and is the direct responsibility of Subcommittee F27.30 on Skiing and Snowboarding Equipment.
Current edition approved June 1, 2012. Published July 2012. Originally approved in 2006. Last previous edition approved in 2007 as F2546 - 07. DOI: 10.1520/F2546-07R12.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.



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ASTM F659 Standard Specification for Ski and Snowboard Goggles



Designation: F659 – 10

Standard Specification for
Ski and Snowboard Goggles¹

This standard is issued under the fixed designation F659; 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 superscripted epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers the minimal requirements of ski and snowboard goggles (intended for nonmotorized use) to provide a reasonable degree of protection against snow and moisture striking or lodging in the eye or surrounding soft tissue.

1.2 The scope of this specification shall include requirements for materials, optical properties, lens strength and retention, labeling, identification, and testing procedures.

1.2.1 Contact lenses, sunglasses, and corrective dress eye wear are not included within the scope of this specification. (Warning—Impact resistant prescription spectacles that conform to the standard specifications of ANSI Z87.1 should be used if spectacles are to be worn under goggle-type eyewear as covered by this specification.)

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only. Metric units of measurement in this specification are in accordance with the International System of Units (SI). If a value for measurement as given in this specification is followed by an equivalent value in other units, the first stated is to be regarded as the requirement. A given equivalent value may be approximate.

1.4 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 and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:²
D1003 Test Method for Haze and Luminous Transmittance of Transparent Plastics

¹ This specification is under the jurisdiction of ASTM Committee F108 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F108.57 on Eye Safety for Sports.
Current edition approved Feb. 1, 2010. Published March 2010. Originally approved in 1980. Last previous edition approved in 2006 as F659 – 06. DOI: 10.1520/F659-10.
² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

An American National Standard

2.2 ANSI Standards:³
ANSI Z80.3 Ophthalmics—Nonprescription Sunglasses and Fashion Eyewear
ANSI Z87.1 Occupational and Educational Eye and Face Protection Devices
2.3 CEN Standard:⁴
EN 168 Personal eye protection—Non-optical test methods

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *astigmatism, n*—condition in a lens that creates two axially separated line foci of each object point, the lines being mutually perpendicular; in other words, the lens has two different refractive powers in meridians that are 90° apart.

3.1.2 *base-down, adj*—refers to the type of prism that causes a horizontal beam of light to bend down causing objects to appear higher than their true position.

3.1.3 *base-in, adj*—refers to the type of prism imbalance that tends to cause parallel rays of light passing through a protector, spaced apart by the interpupillary distance, to converge.

3.1.4 *base-out, adj*—refers to the type of prism imbalance that tends to cause parallel rays of light passing through a protector, spaced apart by the interpupillary distance, to diverge.

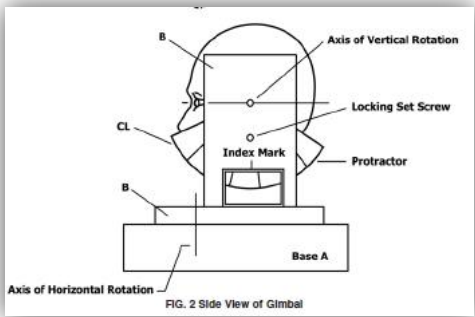
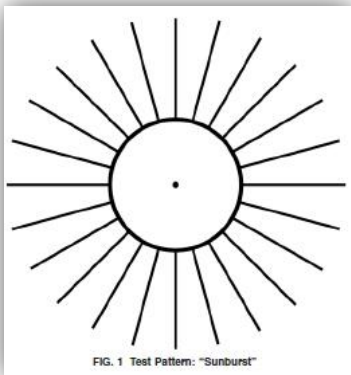
3.1.5 *base-up, adj*—refers to the type of prism that causes a horizontal beam of light to bend upward causing objects to appear lower than their true position.

3.1.6 *binocular, adj*—relating to the field of view that is shared by both eyes simultaneously; also, any simultaneous activity of the two eyes.

3.1.7 *central viewing zone, n*—that part of the eye of a protector that has its center in line with the wearer's normal line of sight.

3.1.7.1 *Discussion*—The zone is circular and 40 mm in diameter. The center of the central viewing zone shall be the point of intersection of the line of sight with the lens as mounted on the head form.

스키, 스노우보드용 고글관련된 기술표준
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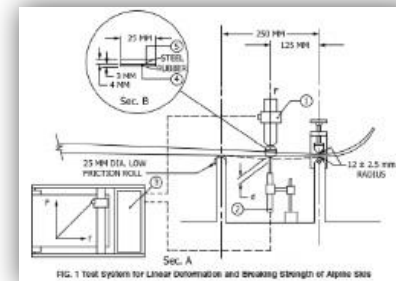
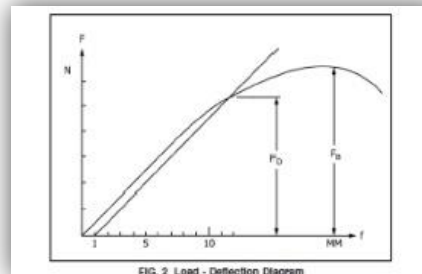
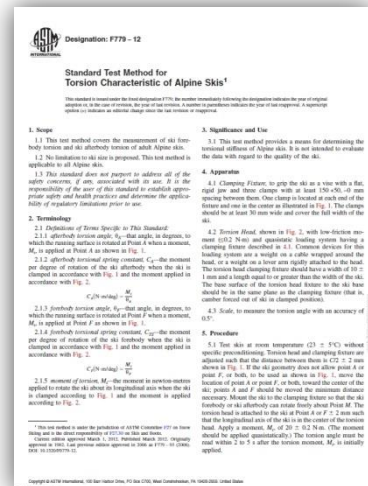
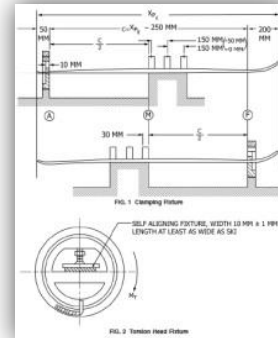
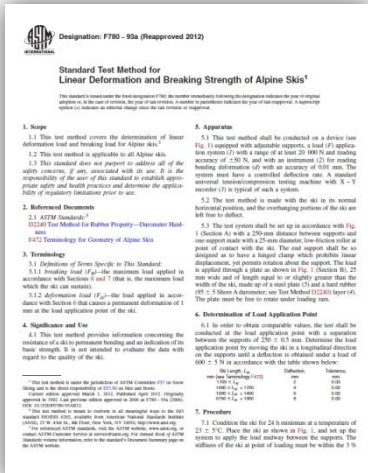
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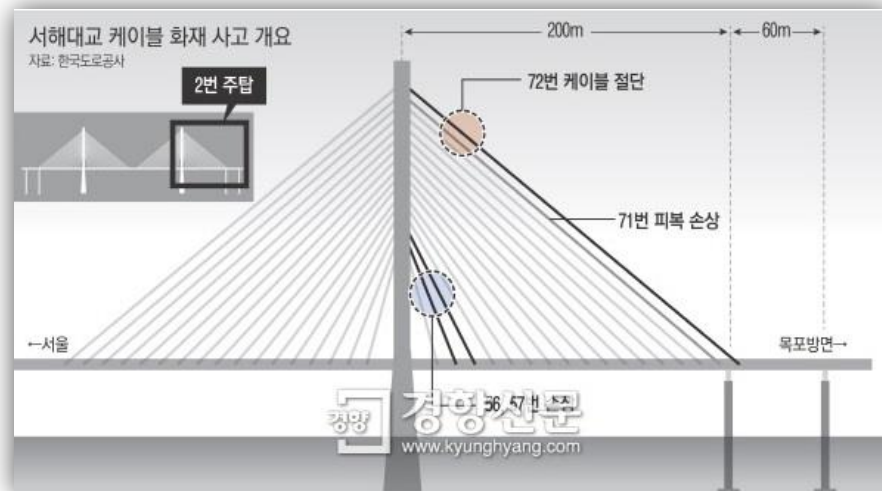
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ASTM F780 Standard Test Method for Torsion Characteristic of Alpine Skis



ASTM F779 Standard Test Method for Linear Deformation and Breaking Strength of Alpine Skis

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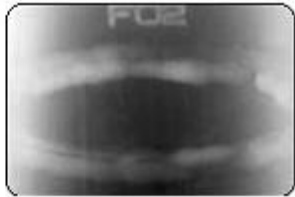
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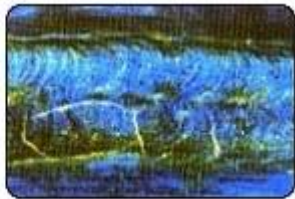
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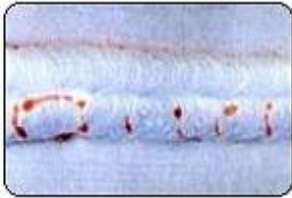
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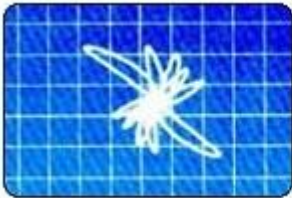
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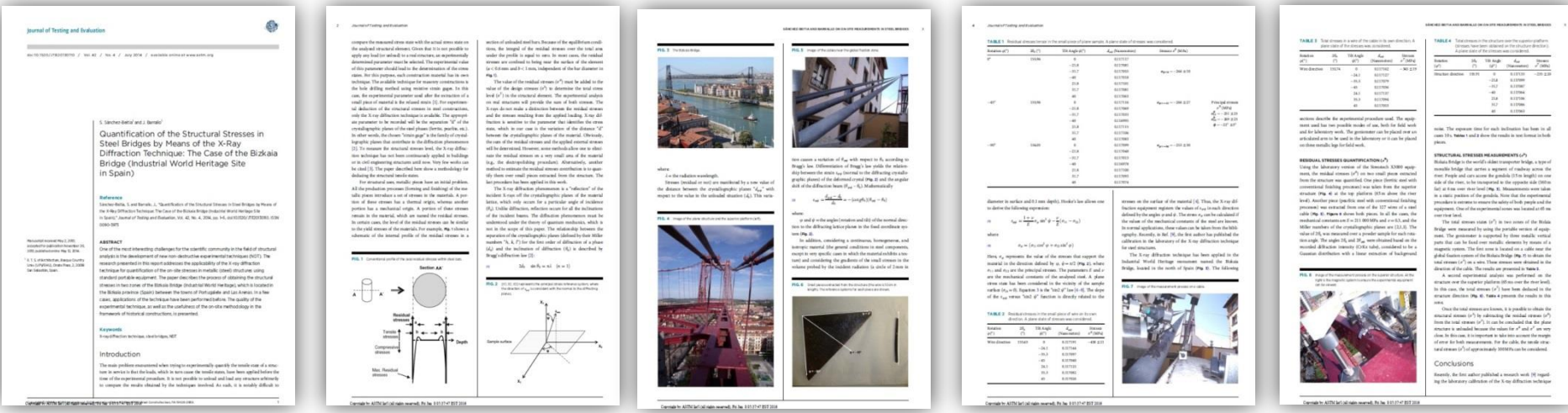
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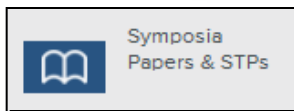
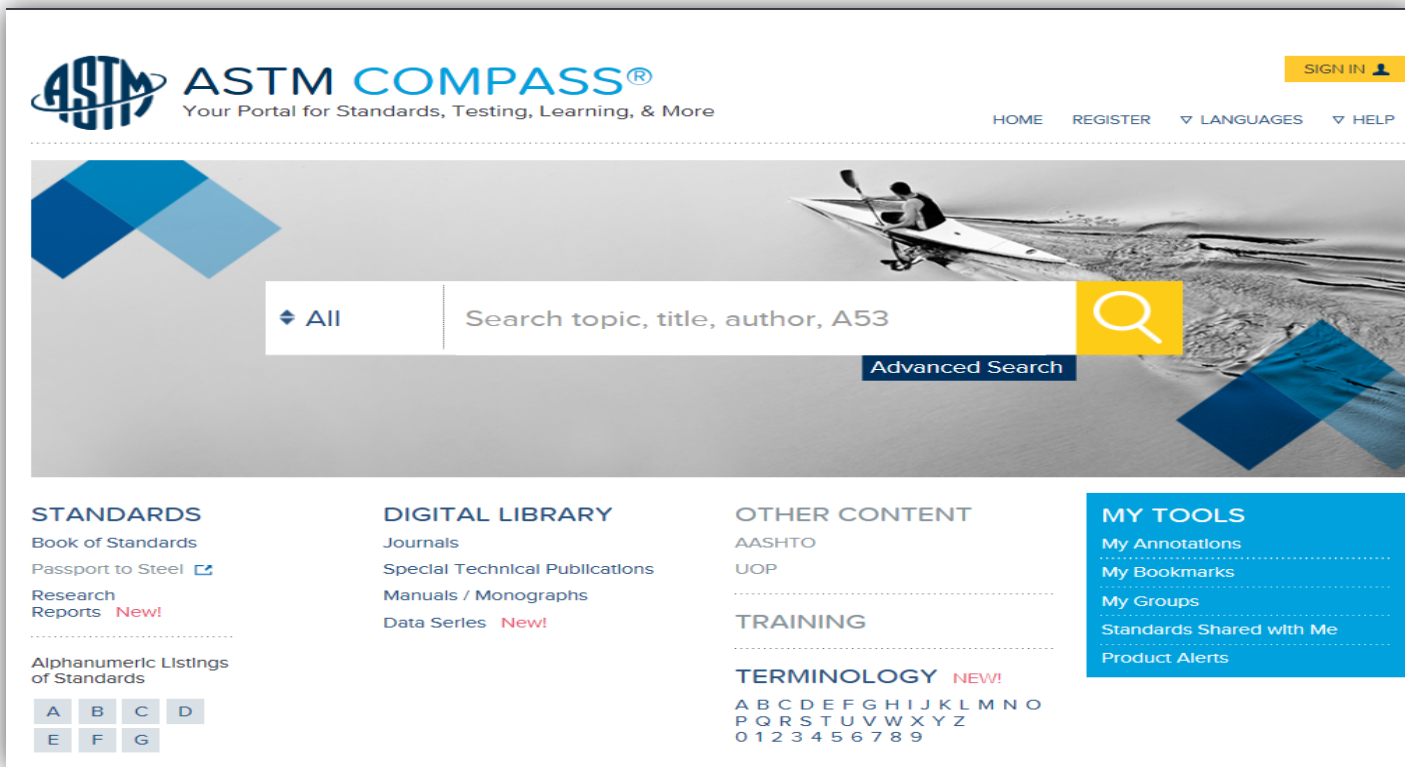
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