



...making excellence a habit.™

# BSI – the UK National Standards Body: The Role of Standards

Anthony Burd - Head of Sector - Construction



# This Session

- The BSI Group and the role of standards
- British Standards Fire Update
- How to get involved
- Questions

# Who is BSI?

- **Leading Global Standards Creation Body:** British, European, ISO, Public, Private
- **The UK National Standards Body:** The source of **British Standards**
- **Specialist Focus** on Standards Creation, Training and Certification
- **Global Network:** **70,000** clients in **150** countries worldwide including governments, global brands and SME's
- **Experienced:** The **world's first National Standards Body** established in 1901 and a **founding member of ISO**
- **Thought Leaders:** Shaped the world's most adopted standards, incl. **ISO 9001**
- **Trusted:** We're a Royal Charter Company, reinvesting profits back into our business to improve our **clients' experience**



# A truly global brand and network – trusted and recognized



- Clients in 150 countries
- 65 offices worldwide
- 3 regional hubs in UK, US and Hong Kong



- Stimulating international trade
- Facilitating governance, risk & compliance
- Certifying and verifying global suppliers

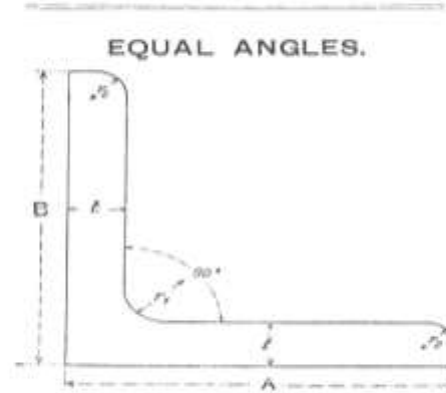
# Mass production and electricity triggered the first requirement for technical Standards



Antwerp 1903, same year that BS 1 was published

# BS1

A standard for interoperability



Size. A x B	Thickness at Correct Standard Profile.			Minimum thickness rolled.	Maximum thickness rolled.	Radii.		Remarks.
	Minimum. t	Mean. t	Maximum. t			Root. r <sub>1</sub>	Toe. r <sub>2</sub>	
Inches.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	The dimensions, thickness, and profile of Standard Angles shall be in accordance with the accompanying list and sketch. Angles ordered to the standard thickness shall be practically accurate in profile; but if the thickness is between, above, or below the standards, the flanges will be proportionately longer or shorter than the standards. The profile at the back of the toe will be slightly rounded when above the standards instead of
1 x 1	·125	—	·250	·125	·300	·175	·125	
1 1/4 x 1 1/4	·125	—	·250	·125	·300	·200	·150	
1 1/2 x 1 1/2	·125	—	·250	·125	·350	·200	·150	
1 3/4 x 1 3/4	·175	—	·300	·175	·375	·225	·150	
2 x 2	·175	—	·300	·175	·400	·250	·175	
2 1/4 x 2 1/4	·175	—	·300	·175	·450	·250	·175	
2 1/2 x 2 1/2	·250	·375	·500	·200	·500	·275	·200	



# Over 100 years expertise shaping global standards to facilitate trade and improve business

## Product Specification Standards

- Beginning in 1901, initial Standards focused on **product specifications** to harmonize and facilitate commerce and reduce duplication
  - Railroad gauges
  - Steel specifications
  - Construction standards
  - Agricultural commodities
  - Consumer and electrical products
  - Personal safety equipment
  - Medical devices
- Product Specification Standards remain relevant today driving **interoperability** and **innovation** in areas such as smart cities and regenerative medicine (e.g. stem cells)



## Product Specification Standards

Founded  
1901

## Process Standards

- The next generation of standards focused on **business processes** to ensure consistent quality output
- BSI shaped the original standards for:
  - Quality Management (ISO 9001)
  - Information Security (ISO/IEC 27001)
  - Environment Management (ISO 14001)
  - Health & Safety (OHSAS 18000)
  - IT Services Management (ISO/IEC 20000-1)
  - Business Continuity (ISO 22301)
  - Sustainable Events (ISO 20121)



## Business Process Standards

1950

## Organisation Potential Standards

- BSI's new generation of Standards are centred around **people behaviour and values** to help organizations reach their full potential and **protect their corporate reputation**
- Key standards include:
  - Anti-Bribery
  - Corporate Social Responsibility
  - Collaborative Business Relationships



## Business Potential Standards

2000

# The importance of separating standards and regulations

## STANDARDS

- Voluntary, market-led
- Full stakeholder engagement
- Written by experts
- Open Public consultation
- Maintained and reviewed

## REGULATIONS

- Minimum legal requirements
- Written by lawyers for Governments



2011 No. 1881

## CONSUMER PROTECTION

### The Toys (Safety) Regulations 2011

Made - - - -

24th July 2011

Laid before Parliament

29th July 2011



## Standards and regulations

How can standards work alongside policies and regulations?





# BSI – a Global Standards Development Organisation

Total staff	300
Subscribing members	14,900
Committee members	>10,000
Technical and Subcommittees	1,200
Live projects (ISO/IEC/CEN/CLC and national standards)	7,000
International/European secretariats	190
International and European Standards work	93%

# BSI – a Global Standards Development Organisation

BSI as NSB manages BS, EN & ISO, IEC standards

Private & professional standards, codes and guidance

**bsi.**

Copyright © 2012 BSI. All rights reserved.



PAS route to national and international standards

Standards are knowledge of  
'what good looks like'.

Standards are a tool to share  
information with other stakeholders.

Standards can be seen as the flip side of IP  
tools, used to protect information.

# BSI Construction Sector

- The largest sector within BSI -
  - 100+ Technical Committees
  - 300+ Sub-Committees
  - 3500 Committee Members
  - 3250 Standards
  - 300-400 New or revised standards every year
- Highly **Regulated** – Building Regulations, RR(FS)O, H&S...
- Major **European Directives** - Construction Products Regulations, Energy Performance of Buildings, Safety of Machinery...
- Sector covers **building design to demolition**, and everything in-between...



# Fire Strategy – Where we are in 2014?

- Strategic committee FSH/0 was formed as a platform for stakeholders to discuss key priorities within the fire and construction sectors
- Engagement with key Government departments, the Fire and Rescue Authorities, and co-ordination with fire industry
- Seminars being organised to present standardization to key stakeholders and to better understand what is needed from BSI

# Our Fire Committees

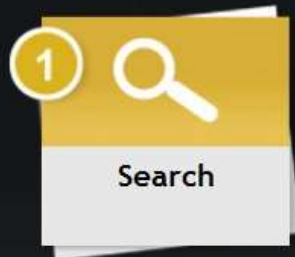
<b>FSH/0</b>	<b>Strategic Policy Group</b>
<b>FSH/01</b>	Fire Safety Cables
<b>FSH/02</b>	Fire extinguishers
<b>FSH/09</b>	Fire Terminology
<b>FSH/12</b>	Fire detection and alarm systems
<b>FSH/14</b>	Fire safety precautions in buildings
<b>FSH/16</b>	Hazards to life from fire
<b>FSH/17</b>	Fire and rescue service equipment
<b>FSH/18</b>	Fixed fire fighting systems
<b>FSH/19</b>	Fire precautions in Railway transport
<b>FSH/21</b>	Reaction of fire tests
<b>FSH/22</b>	Fire resistance tests
<b>FSH/24</b>	Fire safety engineering
<b>FSH/25</b>	Smoke and heat control systems
<b>FSS/0</b>	Fire safety and Security systems
<b>GEL/89</b>	Fire hazard testing
<b>I/-/01</b>	Safety of candles and related products
<b>PH/04</b>	Respiratory Protective Equipment



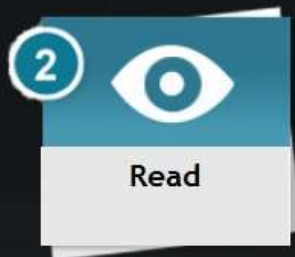
## High profile fire standards up for review...

- **BS 9991** - *Fire safety in the design, management and use of residential buildings – Code of practice* is being revised to take into account sheltered accommodation and vulnerable persons. Due for publication in September 2015.
- **BS 9999** – *Code of practice for fire safety in the design, management and use of buildings* will also be reviewed, however work will not start until BS 9991 has been published as the two documents need to align.

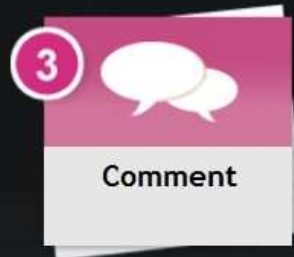
## An easy way to comment on draft standards



Use the search bar below or browse by category to find standards relevant to your business or industry



Read and review the current standard and think about how it would affect you and your business



Comment on the draft standard and help shape its future



We make it easy for you to share standards and comments with colleagues

### Search by Keyword



### View all current drafts

### Browse by subject

▶ Signs, symbols & product specifications (0)

▶ Measurement & science (14)

▶ Healthcare (18)

▶ Engineering (57)

▶ ICT (35)

▶ **Construction (24)**

▶ Commercial & consumer

# How to get involved

- **Getting in touch**

- New ideas
- Suggestions

- **Committee membership**

- Commitment
- Training
- Representation
- Networking
- Setting the standard



**Customer Services:** [cservices@bsigroup.com](mailto:cservices@bsigroup.com)



@ConstructionBSI

# BSI – The role of standards - Questions



Thank you

Anthony Burd

[anthony.burd@bsigroup.com](mailto:anthony.burd@bsigroup.com)