Top Up Your Toolbox:
The *Revised*
BIFMA Ergonomics Guideline Explained

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Agenda

- What is BIFMA
- Challenges for Customers & Furniture Manufacturers
- BIFMA G1 Ergonomics Guideline
  - Background
  - Sneak Peek at Revised Guideline
• **Who:**
  • Not-for-profit trade association for business and institutional furniture manufacturers
  • Voice of the commercial furniture industry

• **What:**
  • Develops safety & performance standards
  • Provides industry statistics and forecasts
  • Advocates for regulatory conditions
  • Serves as a forum for member cooperation and collaboration
Challenges

- Technology Change
- Changing ways of work
- Aging worker
- Diversity
  - Multiple Generations
  - Abilities
  - Shape & size
- Injuries
Background

• 1990’s
  • ISO published a voluntary standard 9241
  • No current standard to guide BIFMA in the application of 9241
  • BIFMA began development of an ergonomics guideline based on most comprehensive anthropometric data available Natick 1988

• 2000’s
  • BIFMA G1 published
  • Civilian anthropometric database published – CAESAR
  • BIFMA began revision of G1

• 2010’s
  • BIFMA G1 revision on track for publication in 2013
Sneak Peek

- Status
- Scope
- Intended Users
- What’s New
- Impact of New Anthropometric Data
Status of Revised Guideline

- Association Ballot
  1st Q 2013

- Publication ETA
  March 2013
Scope

• Guidance in developing, designing and specifying ergonomic solutions for computer workspaces in North America

• Based on relevant ISO 9241 measurable principles & design requirements
Intended Users

- BIFMA Members
- Interior Designers, Architects, Specifiers, Industrial Designers
- Facilities, Purchasing
- Ergonomist, Industrial Hygienists, OTs, Health Care Providers
- Test Labs
- Furniture Dealers & their clients
- Other professionals
What’s New

• General
  • Monitor Placement
  • Laptops
  • Multiple Monitors
  • Appendices

• Some changes to dimensions & adjustment ranges
Hip Breadth, Sitting

- Natick 1988:
  - 5th p Male: 12.9
  - 95th p Female: 17

- CEASAR 2012:
  - 5th p Male: 13.1
  - 95th p Female: 20.4

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Seat Width

- No less than 457 mm (18.0 in.)
- At least 461 mm (18.1 in.) This seat width will accommodate at least* the 80th percentile female hip breadth and the 97th percentile male hip breadth.
- If a larger seat width is provided, the percentile of users supported should be stated.
  - e.g. a seat width of 517 mm (20.4 in.) will accommodate at least* the 95th percentile female hip breadth and greater than the 99th percentile male hip breadth.
Popliteal Height + Elbow Height

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<thead>
<tr>
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<th>5th p Female</th>
<th>95th p Male</th>
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<tbody>
<tr>
<td>Natick 1988</td>
<td>22</td>
<td>28.3</td>
</tr>
<tr>
<td>CAESAR 2012</td>
<td>22.4</td>
<td>29.2</td>
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Support Surface Height – Input Device

- If fixed:
  No less than 724 mm (28.5 in.)
- If adjustable, min. range:
  563 mm (22.2 in.) to 724 mm (28.5 in.)

- If fixed:
  No less than 747 mm (29.4 in.)
- If adjustable, min. range:
  575 mm (22.6 in.) to 747 mm (29.4 in.)
FOR A COMPLETE LOOK AT BIFMA G1-20XX

Join us at AEC 2013!

Body Dimensions G1-2002 vs. G1-20XX
Revised Dimensions & Adjustment Ranges
New Sections
New Appendices
Lively Discussion!
QUESTIONS

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