

August 18, 2020

**TO: PARTIES INTERESTED IN ENCLOSED BOOTHS FOR INSTALLATION
INSIDE NEW AND EXISTING BUILDINGS**

**SUBJECT: Proposed New ICC-ES Acceptance Criteria for Enclosed Booths for Installation
Inside New and Existing Buildings, Subject AC519-1020-R2 (CA/MC)**

Hearing Information:

WebEx Event Meetings

[Tuesday, October 6, 2020](#)

[Wednesday, October 7, 2020](#)

8:00 am Central Daylight Time

Click each date above to register.

Please register for *both* days

Dear Colleague:

You are invited to comment on a proposed new acceptance criteria, AC519-1020-R2, which will be discussed at the Evaluation Committee hearing noted above. The enclosed criteria is a new draft of the criteria previously presented for discussion during the Evaluation Committee hearing on June 2, 2020, where the committee voted to hold the criteria for further study. The Evaluation Committee based its decision on exceptions to means of egress requirements in the proposed new criteria.

The intent of the proposed new acceptance criteria is to establish requirements applicable to enclosed booths for installation inside new and existing buildings since the *International Building Code*[®] (IBC) does not specifically address enclosed booths.

The ICC-ES acceptance criteria development process is consistent with the provisions of IBC Section 104.11 for establishing requirements for products not specifically prescribed by the code.

Just as IBC Chapter 10 includes exceptions to some means of egress provisions applicable to buildings and their components, the proposed new acceptance criteria

includes provisions for enclosed booths of limited size and limited number of occupants used as an occupiable space. Based on current enclosed booth installations numbering in the tens of thousands in the U.S. and the lack of reported incidents or complaints, the proposed new acceptance criteria will provide a comprehensive set of requirements benefiting manufacturers, specifiers, installers, property owners and managers, and authorities having jurisdiction.

The proposed new acceptance criteria enclosed with this letter is consistent with the criteria presented at the Evaluation Committee hearing on June 2, 2020, with the following changes identified in the enclosed criteria with strike outs and underlines:

- A. Section 1.3.14: Added reference to ICC A117.1-2009, Accessible and Usable Buildings and Facilities, International Code Council, Inc.
- B. Item A of Section 3.1.3: Removed the exception allowing enclosed booths intended for single occupant use to have a door opening with a minimum clear opening width less than 32 inches (813 mm). Additionally, removed the original requirement in Section 6.9 that related to the exception in Item A of Section 3.1.3.
- C. Item B of Section 3.1.3: Revised Item B as shown in the enclosed proposed new acceptance criteria.
- D. Item C of Section 3.1.3: Revised Item C as shown in the enclosed proposed new acceptance criteria.

Pursuant to input received from the Evaluation Committee during the June 2, 2020 Evaluation Committee hearing, the ICC-ES staff would like to point out the following:

1. Item B of Section 3.1.3:

Enclosed booths complying with this criteria shall have a door opening with a minimum clear opening height of 78 inches (1981 mm). Enclosed booths with a minimum clear opening height of less than 80 inches (2032 mm) are to be equipped with a sign that specifies the opening height.

The ICC-ES staff position regarding Item B is based on standard door heights. While 80-inch (2032 mm) door heights are standard in the U.S., door heights in Europe and the UK are typically minimum 78 inches (1981 mm) with metric sized door heights of 2000 mm (78³/₄ inches) and 2040 mm (80⁵/₁₆ inches) becoming increasingly popular. Item B allows manufacturers to produce booths equipped with their standard height doors that do not adversely affect ingress or egress.

2. Item C of Section 3.1.3:

An enclosed booth complying with this criteria that meets the applicable accessibility requirements shall be equipped with a ramp with a maximum 1:2 (50-percent) slope for floor level changes greater than ¼ inch (6.4 mm) in height and not more than ½ inch (13 mm) in height or the maximum 1:12 slope (8.3-percent) slope requirement in Section 405.2 of ICC A117.1 for floor level changes greater than ½ inch (13 mm) in height.

The ICC-ES staff position is based on Item C being in accordance with IBC Section 1010.1.7 and ICC A117.1 Section 405.2.

3. Item D of Section 3.1.3:

An enclosed booth complying with this criteria that is not required to be accessible may have an interior finished floor that is a maximum of 5 inches (127 mm) higher than the floor of the existing structure outside the enclosed booth provided a sign is installed on each side of the door warning about the elevation change.

The ICC-ES staff position regarding Item D is due to some booths having a raised floor and/or raised threshold. Understanding that the booth is a separate compartment within the building, users might anticipate the change in floor elevation and/or threshold height when entering or exiting the booth. If not, Item D addresses this by requiring a sign be posted on each side of the door warning of the floor elevation change.

4. Section 3.1.6:

An enclosed booth complying with this criteria shall have a minimum ceiling height of 6 feet 6¾ inches (2000 mm) above the finished floor.

The ICC-ES staff position regarding Section 3.1.6 is based on the need for the booth to be able to fit inside rooms with ceiling heights complying with the code prescribed 7 feet 6 inches (2286 mm) above the finished floor. Section 3.1.6 addresses practical considerations, related to installation of factory-built and field-fabricated booths, booth maintenance and the need for clearance above the booth for ventilation openings, smoke venting, electrical connections and sprinkler connections, without adversely affecting ingress or egress.

In summary, the purpose of bringing this proposal forward is to establish acceptance criteria for enclosed booths for installation inside new and existing buildings. This will be accomplished with the Evaluation Committee's approval of the acceptance criteria proposed with this letter.

Should the Evaluation Committee approve the proposed new acceptance criteria, the ICC-ES staff will recommend an immediate effective date. Current applicants for new reports will be required to address the applicable requirements of the new acceptance criteria approved by the committee.

You are invited to submit written comments on this or any other agenda item, or to register and attend the Evaluation Committee hearing by WebEx Event and present your views during the WebEx Event meeting. If you wish to contribute to the discussion, please note the following:

1. Regarding written comments and presentations:

- a. You should submit these via e-mail to es@icc-es.org to be received by the applicable due date.
- b. Comments are to be received by **September 10, 2020**. These written comments will be forwarded to the committee before the meeting and will also be posted on the ICC-ES web site shortly after the deadline for submission. Written comments that are not submitted by this deadline will not be considered at the meeting.
- c. Rebuttal comments, from the proponent noted in this letter, are to be received by **September 22, 2020**. They will be forwarded to the committee before the meeting, and will also be posted on the ICC-ES web site shortly after the deadline for submission. Written rebuttal comments that are not submitted by the deadline will not be considered at the meeting.
- d. Visual presentation, in PowerPoint format only, are to be received by **September 22, 2020**. These will be forwarded to the committee before the meeting, and will also be posted on the ICC-ES web site after the deadline for submission. Presentations that are not submitted by the deadline cannot be presented at the meeting. Note: Videos will not be posted on the web site.

Presentations will be retained with other records of the meeting.

- e. ICC-ES will post to the web site, on **September 29, 2020**, memos by the ICC-ES staff, responding to the previously received public comments.
 - f. If you miss the deadlines for submission of written comments and visual presentations, your verbal comments can be presented at the WebEx Event meeting.
 - g. Proposed criteria, written public comments, visual presentations, and responses by ICC-ES staff for this agenda item are all available on our website.
2. Regarding verbal comments and presentations:

Please plan to speak for not more than ten minutes. As noted above, visuals are to be in PowerPoint format and will be shown during the WebEx Event meeting.

3. Keep in mind that all materials submitted for committee consideration are part of the public record and will not be treated as confidential. It is the presenter's responsibility to certify to ICC-ES staff that no materials infringe copyright.

4. Please do not communicate with committee members before the meeting about any items on the agenda.

We appreciate your interest in the work of the Evaluation Committee. If you have any questions, please contact me at (800) 423-6587, extension 3223, or Manuel Chan, P.E., S.E., Staff Engineer, at extension 3288. You may also reach us by e-mail at es@icc-es.org.

Yours very truly,

A handwritten signature in purple ink that reads "C. Allen".

Chris Allen, P.E.
Senior Staff Engineer

CA/ls

Encl.

cc: Evaluation Committee

ICC EVALUATION SERVICE, LLC, RULES OF PROCEDURE FOR THE EVALUATION COMMITTEE

1.0 PURPOSE

The purpose of the Evaluation Committee is to review and approve acceptance criteria on which evaluation reports may be based.

2.0 MEMBERSHIP

2.1 The Evaluation Committee has a membership of not fewer than nine, with one of the members named by the ICC-ES president each year to serve as the chairman–moderator.

2.2 All members of the committee shall be representatives of a body enforcing regulations related to the built environment.

2.3 Persons are appointed to the committee by the ICC-ES president, from among individuals who have formally applied for membership.

2.4 The ICC-ES Board of Managers, using simple majority vote, shall ratify the nominations of the president.

2.5 Committee membership is for one year, coinciding with the calendar year. Members may be renominated and reappointed, but no person shall serve for more than five consecutive terms.

2.6 In the event that a member is unable to attend a committee meeting or complete a term on the committee, the ICC-ES president may appoint a replacement to fill in at the meeting or for the remainder of the member's term. Any replacement appointed for only one meeting must have prior experience as a member of the Evaluation Committee. Appointments under this section (Section 2.6) are subject to ratification as noted in Section 2.4.

3.0 MEETINGS

3.1 The Evaluation Committee shall schedule meetings that are open to the public in discharging its duties under Section 1.0, subject to Section 3.0.

3.2 All scheduled meetings shall be publicly announced. There shall be three meetings per year.

3.3 More than half of the Evaluation Committee members, counting the chairman, shall constitute a quorum. A majority vote of members present is required on any action. To avoid any tie vote, the chairman may choose to exercise or not exercise, as necessary, his or her right to vote.

3.4 In the absence of the chairman–moderator, Evaluation Committee members present shall elect an alternate chairman from the committee for that meeting. The alternate chairman shall be counted as a voting committee member for purposes of maintaining a committee quorum and to cast a tie-breaking vote of the committee.

3.5 Minutes shall be kept and shall be the official record of each meeting.

3.6 An electronic record of meetings may be made by ICC-ES if deemed necessary; no other audio, video, electronic recordings of the meetings will be permitted. Visual aids (including, but not limited to, charts, slides, videos, or presentation software) viewed at meetings shall be permitted only if the presenter provides ICC-ES before the presentation with a copy of the visual aid in a medium which can be retained by ICC-ES with its record of the meeting and which can also be provided to interested parties requesting a copy.

3.7 Parties interested in the deliberations of the committee should refrain from communicating, whether in writing or verbally, with committee members regarding agenda items. All written communications and submissions regarding agenda items must be delivered to ICC-ES and shall be considered nonconfidential and available for discussion in open session of an Evaluation Committee meeting. Such materials will be posted on the ICC-ES web site (www.icc-es.org) prior to the meeting. Comments and submissions not meeting the following deadlines will not be considered at the meeting:

- Initial comments on agenda items shall be submitted at least 28 days before the scheduled meeting.
- A rebuttal comment period shall follow, whereby rebuttal comments to the initial comments may be submitted by the proponent at least 21 days before the scheduled meeting.
- Those planning on giving a visual presentation at the meeting must submit their presentation, in PowerPoint format only, at least 10 days before the scheduled meeting.

The committee reserves the right to refuse recognition of communications which do not comply with the provisions of this section.

4.0 CLOSED SESSIONS

Evaluation Committee meetings shall be open except that at the discretion of the chairman, staff counsel may be necessary. Also, matters related to clients or potential clients covered by confidentiality requirements of ICC-ES Rules of Procedure for Evaluation Reports are discussed only during closed meetings.

5.0 ACCEPTANCE CRITERIA

5.1 Acceptance criteria are established by the committee to provide a basis for issuing ICC-ES evaluation reports on products and systems under codes referenced in Section 2.0 of the Rules of Procedure for Evaluation Reports. They also clarify conditions of acceptance for products and systems specifically regulated by the codes.

Acceptance criteria may involve a product, material, or method of construction. Consideration of any acceptance criteria must be in conjunction with a current and valid application for an ICC-ES evaluation report, an existing ICC-ES evaluation report, or as otherwise determined by the ICC-ES President.

EXCEPTIONS: The following acceptance criteria are controlled by the ICC-ES executive staff and are not subject to committee approval:

- The Acceptance Criteria for Quality Documentation (AC10)
- The Acceptance Criteria for Test Reports (AC85)
- The Acceptance Criteria for Inspections and Inspection Agencies (AC304)

5.2 Procedure:

5.2.1 Proposed acceptance criteria shall be developed by the ICC-ES staff and discussed in open session with the Evaluation Committee during a scheduled meeting, except as permitted in Section 4.0 of these rules.

5.2.2 Proposed acceptance criteria shall be available to interested parties at least 30 days before discussion at the committee meeting.

5.2.3 The committee shall be informed of all pertinent written communications received by ICC-ES.

5.2.4 Attendees at Evaluation Committee meetings shall have the opportunity to speak on acceptance criteria listed on the meeting agenda, to provide information to committee members. In the interest of fairness, each person requesting to testify on a proposed acceptance criteria or proposed changes to an existing acceptance criteria will be given the same amount of time. The following time limits are established:

- a. For entities offering their first testimony on any item, a 10-minute limit applies. This time limit applies to both verbal testimony and/or visual presentations.
- b. Each person offering testimony may return to the microphone for one five-minute period to offer additional testimony and/or to rebut testimony given by others.
- c. Each person offering testimony on the staff recommendation, on each criteria, is allowed one, two-minute trip to the microphone.

Time limits do not include time needed to answer questions from the staff and/or committee members. The chairman–moderator shall have limited authority to modify time limitations on testimony. The chairman–moderator shall also have the authority to adjust time limits as necessary in order to get through the hearing agenda.

Keeping of time for testimony by an individual will be by an automatic timing device. The time remaining shall be evident to the person testifying. Interruptions during testimony will not be tolerated. It is the responsibility of the chairman–moderator to maintain decorum and order during all testimony.

5.3 Approval of any action on an acceptance criteria shall be as specified in Section 3.3 of these rules. Possible actions made by the Evaluation Committee include: Approval; Approval with Revisions; Disapproval; or Further Study. The Evaluation Committee must give the reason(s)

for any Disapproval or Further Study actions with specific recommendations.

5.4 Actions of the Evaluation Committee may be appealed in accordance with the ICC-ES Rules of Procedure for Appeal of Acceptance Criteria or the ICC-ES Rules of Procedure for Appeals of Evaluation Committee Technical Decisions.

6.0 COMMITTEE BALLOTING FOR ACCEPTANCE CRITERIA

6.1 Acceptance criteria may be revised without a public hearing following a 30-day public comment period and a majority vote for approval by the Evaluation Committee, when at the discretion of the ICC-ES executive staff, the subject is a revision that requires formal action by the Evaluation Committee.

6.2 Negative votes must be based upon one or more of the following, for the ballots to be considered valid and require resolution:

- a. *Lack of clarity:* There is insufficient explanation of the scope of the acceptance criteria or insufficient description of the intended use of the product or system; or the acceptance criteria is so unclear as to be unacceptable. (The areas where greater clarity is required must be specifically identified.)
- b. *Insufficiency:* The criteria is insufficient for proper evaluation of the product or system. (The provisions of the criteria that are in question must be specifically identified.)
- c. *The subject of the acceptance criteria is not within the scope of the applicable codes:* A report issued by ICC-ES is intended to provide a basis for approval under the codes. If the subject of the acceptance criteria is not regulated by the codes, there is no basis for issuing a report, or a criteria. (Specifics must be provided concerning the inapplicability of the code.)
- d. *The subject of the acceptance criteria needs to be discussed in public hearings.* The committee member requests additional input from other committee members, staff or industry.

6.3 An Evaluation Committee member, in voting on an acceptance criteria, may only cast the following ballots:

- Approved
- Approved with Comments
- Negative: Do Not Proceed

7.0 COMMITTEE COMMUNICATION

Direct communication between committee members, and between committee members and an applicant or concerned party, with regard to the processing of a particular acceptance criteria or evaluation report, shall take place only in a public hearing of the Evaluation Committee. Accordingly:

7.1 Committee members receiving an electronic ballot should respond only to the sender (ICC-ES staff). Committee members who wish to discuss a particular matter with other committee members, before reaching a decision, should ballot accordingly and bring the matter to

ICC EVALUATION SERVICE, LLC, RULES OF PROCEDURE FOR THE EVALUATION COMMITTEE

the attention of ICC-ES staff, so the issue can be placed on the agenda of a future committee meeting.

7.2 Committee members who are contacted by an applicant or concerned party on a particular matter that will be brought to the committee will refrain from private communication and will encourage the applicant or concerned party to forward their concerns through the ICC-

ES staff in writing, and/or make their concerns known by addressing the committee at a public hearing, so that their concerns can receive the attention of all committee members.■

Revised August 2020

PROPOSED NEW ACCEPTANCE CRITERIA FOR ENCLOSED BOOTHS FOR INSTALLATION INSIDE NEW AND EXISTING BUILDINGS

AC519

Proposed August 2020

PREFACE

Evaluation reports issued by ICC Evaluation Service, LLC (ICC-ES), are based upon performance features of the International family of codes. (Some reports may also reference older code families such as the BOCA National Codes, the Standard Codes, and the Uniform Codes.) Section 104.11 of the *International Building Code*® reads as follows:

The provisions of this code are not intended to prevent the installation of any materials or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

ICC-ES may consider alternate criteria for report approval, provided the report applicant submits data demonstrating that the alternate criteria are at least equivalent to the criteria set forth in this document, and otherwise demonstrate compliance with the performance features of the codes. ICC-ES retains the right to refuse to issue or renew any evaluation report, if the applicable product, material, or method of construction is such that either unusual care with its installation or use must be exercised for satisfactory performance, or if malfunctioning is apt to cause injury or unreasonable damage.

Acceptance criteria are developed for use solely by ICC-ES for purposes of issuing ICC-ES evaluation reports

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PROPOSED NEW ACCEPTANCE CRITERIA FOR ENCLOSED BOOTHS FOR INSTALLATION INSIDE NEW AND EXISTING BUILDINGS

1 1.0 INTRODUCTION

2 **1.1 Purpose:** The purpose of this acceptance criteria is to establish
3 requirements for recognition of enclosed booths for installation inside new and existing
4 buildings in ICC Evaluation Service, LLC (ICC-ES) evaluation reports under the 2018
5 and 2015 *International Building Code*[®] (IBC), 2018 and 2015 *International Fire Code*[®]
6 (IFC) and 2018 and 2015 *International Mechanical Code*[®] (IMC). Bases of recognition is
7 IBC Section 104.11, IFC Section 104.11 and IMC Section 104.11.

8 The reason for the development of this criteria is to provide guidelines for the
9 evaluation of enclosed booths for installation inside new and existing buildings of any
10 construction type, since the codes do not prescribe installation requirements or test
11 standards addressing performance requirements for such products.

12 **1.2 Scope:** Enclosed booths for installation inside new and existing buildings
13 that comply with this criteria are single-occupant or multiple-occupant enclosures with a
14 maximum of six occupants. The interior area of the enclosed booth is limited to a
15 maximum of 100 square feet (9.3 m²). The enclosed booths are considered an
16 *occupiable space*, with or without fixed seating, for uses such as a telephone booth,
17 telephone conference area, video conference area, or meeting area. The enclosed
18 booths are not a *habitable space* and such use is outside the scope of this criteria.
19 Enclosed booths complying with this criteria are for use as a Group B occupancy or the
20 same occupancy assigned to the area of the structure within which the enclosed booth

21 is installed as intended for small assembly spaces in accordance with Item 1 of IBC
22 Section 303.1.2. Enclosed booths complying with this criteria are for use in Light Hazard
23 Occupancies or in Ordinary Hazard (Group 1) Occupancies as defined in NFPA 13.
24 The electrical safety requirements and energy efficiency of the enclosed booths are
25 outside the scope of this criteria.

26 **1.3 Codes and Referenced Standards:**

27 **1.3.1** 2018 and 2015 *International Building Code*[®] (IBC), International
28 Code Council.

29 **1.3.2** 2018 and 2015 *International Fire Code*[®] (IFC), International Code
30 Council.

31 **1.3.3** 2018 and 2015 *International Mechanical Code*[®] (IMC), International
32 Code Council.

33 **1.3.4** ANSI Z97.1-14, Safety Glazing Materials Used in Buildings – Safety
34 Performance Specifications and Methods of Test, American National Standards
35 Institute.

36 **1.3.5** ASCE 7-16 or ASCE 7-10, Minimum Design Loads and Associated
37 Criteria for Buildings and Other Structures, American Society of Civil Engineers.

38 **1.3.6** ASTM D2859-16, Standard Test Method for Ignition Characteristics
39 of Finished Textile Floor Covering Materials, ASTM International.

40 **1.3.7** ASTM E72-15, Standard Test Methods of Conducting Strength
41 Tests of Panels for Building Construction, ASTM International.

- 42 **1.3.8** ASTM E84-16, Standard Test Method for Surface Burning
43 Characteristics of Building Materials, ASTM International.
- 44 **1.3.9** ASTM E648-15e1, Standard Test Method for Critical Radiant Flux
45 of Floor-covering Systems Using a Radiant Heat Energy Source, ASTM International.
- 46 **1.3.10** ASTM E1537-15, Standard Test Method for Fire Testing of
47 Upholstered Furniture, ASTM International.
- 48 **1.3.11** BHMA A156.10-11, Power Operated Pedestrian Doors, Builders
49 Hardware Manufacturers' Association.
- 50 **1.3.12** California Technical Bulletin 133-91, Flammability Test Procedure
51 for Seating Furniture for Use in Public Occupancies, State of California Department of
52 Consumer Affairs Bureau of Household Goods and Services.
- 53 **1.3.13** CPSC 16 CFR Part 1201 (2002), Safety Standard for Architectural
54 Glazing Material, Consumer Product Safety Commission.
- 55 **1.3.14** ICC A117.1-2009, Accessible and Usable Buildings and Facilities,
56 International Code Council, Inc.
- 57 ~~1.3.14~~**1.3.15** NEBS GR-63-CORE dated December 2017, NEBS Requirements:
58 Physical Protection, Network Equipment-Building System.
- 59 ~~1.3.15~~**1.3.16** NFPA 13-16, Standard for Installation of Sprinkler Systems,
60 National Fire Protection Association.
- 61 ~~1.3.16~~**1.3.17** NFPA 253-15, Standard Method of Test for Critical Radiant Flux of
62 Floor Covering Systems Using a Radiant Heat Energy Source, National Fire Protection
63 Association.

64 ~~1.3.17~~1.3.18 NFPA 260-18, Methods of Tests and Classification System for
65 Cigarette Ignition Resistance of Components of Upholstered Furniture, National Fire
66 Protection Association.

67 ~~1.3.18~~1.3.19 NFPA 261-18, Standard Method of Test for Determining Resistance
68 of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering
69 Cigarettes, National Fire Protection Association.

70 ~~1.3.19~~1.3.20 UL 325-02, with revisions through May 2015, Door, Drapery, Gate,
71 Louver and Window Operations and Systems, Underwriters Laboratories, Inc.

72 ~~1.3.20~~1.3.21 UL 723-08 with revisions through August 2013, Test for Surface
73 Burning Characteristics of Building Materials, Underwriters Laboratories, Inc.

74 ~~1.3.21~~1.3.22 UL 864-03 with revisions through December 2014, Control Units
75 and Accessories for Fire Alarm Systems, Underwriters Laboratories, Inc.

76 **1.4 Definitions:**

77 **1.4.1 Approved:** As defined in IBC Section 202 and IFC Section 202.

78 **1.4.2 Automatic Sprinkler System:** As defined in IBC Section 202 and
79 IFC Section 202.

80 **1.4.3 Enclosed Booth:** *An occupiable space*, consisting of a single-
81 occupant or multiple-occupant enclosure with walls, a ceiling and a floor, intended for a
82 maximum of six occupants, equipped with one door or two doors, with or without fixed
83 seating. The interior area of the enclosed booth is limited to a maximum of 100 square
84 feet (9.3 square m). The enclosed booths are either fully assembled in a factory or
85 partially assembled in a factory with final assembly occurring at the jobsite.

86 **1.4.4 Habitable space:** As defined in IBC Section 202.

87 **1.4.5 Light Hazard Occupancies:** Refer to NFPA 13, Section 5.2.

88 **1.4.6 Means of Egress:** As defined in IBC Section 202.

89 **1.4.7 Occupancy Group B:** Refer to IBC Section 304.

90 **1.4.8 Occupiable space:** As defined in IBC Section 202.

91 **1.4.9 Ordinary Hazard (Group 1) Occupancies:** Refer to NFPA 13,
92 Section 5.3.1.

93 **2.0 BASIC INFORMATION AND REPORTS OF TESTING**

94 **2.1 General:** The following information shall be submitted:

95 **2.1.1 Product Description:** A complete description of the enclosed
96 booths including all components and materials, and the manufacturing process for each
97 finished product.

98 **2.1.2 Installation Instructions:** Installation details, including drawings,
99 with anchorage requirements addressing seismic design categories, type, size and
100 location of anchors, and any installation limitations. The instructions shall address the
101 need for installation in accordance with IBC, IFC, IMC, NFPA 70 and, when installed
102 with a sprinkler, NFPA 13.

103 **2.1.3 Operating Instructions:** Operating instructions including details of
104 the intended use and any limitations. When provided with transparent glazed openings,
105 the instructions shall specify that the view is not to be obstructed by the posting of signs,
106 decorations, or the installation of blinds or draperies that would prevent occupants from

107 seeing visible alarm notification appliances located in the structure where the enclosed
108 booths are installed.

109 **2.1.4 Periodic Maintenance:** Maintenance instructions including
110 detailed procedures, schedules and necessary tools to periodically maintain the
111 enclosed booths and their components in accordance with the booth manufacturer's
112 published maintenance instructions, component maintenance instructions, and any
113 maintenance required by the applicable codes.

114 **2.1.5 Packaging and Identification:** A description of the method of
115 packaging and field identification of the enclosed booths shall include the report holder's
116 name and address, the product name, the evaluation report number, and notice of any
117 product installation limitations.

118 **2.2 Testing Laboratories:** Testing laboratories shall comply with Section 2.0 of
119 the ICC-ES Acceptance Criteria for Test Reports (AC85) and Section 4.2 of the ICC-ES
120 Rules of Procedure for Evaluation Reports.

121 **2.3 Test Reports:** Test reports shall comply with AC85.

122 **2.4 Product Sampling:** Sampling of the enclosed booths and individual
123 components for tests under this criteria shall comply with Section 3.2 of AC85.

124 **2.5 Qualification Test Plan:** A qualification test plan shall be submitted to, and
125 be approved by, ICC-ES staff prior to any testing being conducted.

126 **3.0 REQUIRED DATA**

127 **3.1 Enclosed booths:** Enclosed booths shall comply with the following
128 provisions based on submittal of the following required data:

129 **3.1.1 Interior Wall and Ceiling Finishes:** Reports of testing of
130 interior wall and ceiling finishes in accordance with the applicable provisions of
131 IBC Section 803.1, with the tests performed in accordance with ASTM E84 or UL
132 723. The finishes on both faces of the wall and the ceiling of the booth are to be
133 evaluated. See Section 4.1 for test specimen, procedures, test conditions and
134 conditions of acceptance.

135 **3.1.2 Floor Finishes and Floor Coverings:** Reports of testing of floor
136 finishes and floor coverings in accordance with the applicable provisions of IBC Section
137 804. See Section 4.2 for test specimen, procedures, test conditions and conditions of
138 acceptance.

139 **Exception:** Floor finishes and coverings of a traditional type, such as
140 wood, vinyl, linoleum or terrazzo, and resilient floor covering materials that are not
141 comprised of fibers.

142 **3.1.3 Means of Egress:** Evidence of compliance with the following
143 means of egress requirements of ~~IBC Chapter 10~~ applicable to enclosed booths
144 complying with this criteria and used as an *occupiable space*:

145 ~~A. IBC Section 1010.1.1 requires door openings to provide a minimum~~
146 ~~clear opening width of 32 inches (813 mm) and a minimum clear opening height of 80~~
147 ~~inches (2032 mm). Enclosed booths complying with this criteria shall have a door~~
148 ~~opening with a minimum clear opening width of 32 inches (813 mm).~~

149 **Exception 1:** ~~Enclosed booths complying with this criteria that are~~
150 ~~intended for single occupant use, and not intended for individuals with disabilities, may~~

151 ~~have a door opening with a minimum clear opening width of 30.8 inches (782 mm).~~
152 ~~Enclosed booths with a door opening with a minimum clear opening width of less than~~
153 ~~32 inches (813 mm) are to be equipped with a sign that specifies the opening width.~~

154 **B. Exception 2:** ~~Enclosed booths complying with this criteria may~~shall
155 have a door opening with a minimum clear opening height of ~~78³/₄ inches (2000 mm)~~78
156 inches (1981 mm). Enclosed booths with a minimum clear opening height of less than
157 80 inches (2032 mm) are to be equipped with a sign that specifies the opening height.

158 **B.** ~~IBC Section 1010.1.5 requires floors to be at the same elevation on~~
159 ~~each side of the door. Additionally, IBC Section 1010.7 requires thresholds at doorways~~
160 ~~to not exceed 1/2 inch (12.7 mm) above the finished floor.~~

161 **C. Exception 1:** An enclosed booth complying with this criteria that meets
162 the applicable accessibility requirements ~~that is~~shall be equipped with a ramp that
163 ~~meets the~~with a maximum 1:2 (50-percent) slope requirement in IBC Section 1010.1.7
164 for floor level changes greater than 1/4 inch (6.4 mm) in height and not more than 1/2 inch
165 (13 mm) in height or the maximum 1:12 (8.3-percent) slope requirement in Section
166 405.2 of ICC A117.1 for floor level changes greater than 1/2 inch (13 mm) in height.

167 **D. Exception 2:** An enclosed booth complying with this criteria that is not
168 required to be accessible may have an interior finished floor that is a maximum of 5
169 inches (127 mm) higher than the floor of the existing structure outside the enclosed
170 booth provided a sign is installed on each side of the door warning about the elevation
171 change.

172 **C.E.** Posting of occupant load on the enclosed booth in accordance with
173 2018 IBC Section 1004.9 (2015 IBC Section 1004.3).

174 **D.F.** Enclosed booths may be equipped with a single swinging door
175 based on IBC Section 1006.2.1 allowing a single exit based on occupant load and
176 common path of egress travel distance.

177 **E.G.** In accordance with IBC Section 1005.7.1, when fully opened or
178 partially opened, doors shall not reduce the required width of a required means of
179 egress in the building where the enclosed booth is installed.

180 **F.H.** The enclosed booths are to be installed in locations such that they
181 do not reduce the minimum width or required capacity of a means of egress and are not
182 to be installed in means of egress components such as a stairway, an exit and an exit
183 access doorway.

184 **G.I.** Where the door of the enclosed booth is operated or assisted by
185 power, evidence of compliance with the applicable provisions of IBC Section 1010.1.4.2
186 is needed. Power operated swinging doors, power-operated sliding doors and power-
187 operated folding doors shall comply with BHMA A156.10.

188 **Exception:** As an alternative to complying with BHMA A156.10, the
189 door operator shall comply with either UL 325 or UL 864.

190 **H.J.** Door hardware, including door closers and operators, hinges, and
191 locks and latches, shall comply with the applicable requirements of IBC Chapter 10. If
192 provided with a single-point lock and latch or a multi-point lock and latch, unlocking and
193 unlatching shall not require more than one operation. A separate bolt lock that requires

194 a second operation or a delayed egress locking system is not permitted. The door(s)
195 shall be capable of being unlocked from outside the enclosed booth with a key or other
196 *approved* means.

197 **3.1.4 Accessibility:**

198 Evidence of compliance with the accessibility requirements of IBC Chapter
199 11 applicable to an *occupiable space* for enclosed booths that are intended for
200 individuals with disabilities.

201 **3.1.5 Ventilation:**

202 Evidence of compliance with provisions for natural ventilation in
203 accordance with IBC Sections 1202.1 and 1202.5 or mechanical ventilation in
204 accordance with Section 403 of the *International Mechanical Code*[®] (IMC) applicable to
205 the enclosed booths.

206 **3.1.6 Interior Space Dimensions:**

207 ~~Evidence of compliance with interior space dimension provisions of 2018~~
208 ~~IBC Section 1207 (2015 IBC Section 1208) applicable to enclosed booths and used as~~
209 ~~an *occupiable space*. **Exception for minimum ceiling height:** An enclosed booth~~
210 ~~complying with this criteria may shall have a minimum ceiling height of 6 feet 6¾ inches~~
211 ~~(2000 mm) above the finished floor whereas 2018 IBC Section 1207.2 (2015 IBC~~
212 ~~Section 1208.2) requires *occupiable spaces* to have a minimum ceiling height of not~~
213 ~~less than 7 feet 6 inches (2286 mm) above the finished floor.~~

214 **3.1.7 Structural:**

215 Evidence of compliance with the structural provisions of IBC

216 Chapter 16, as follows:

217 **A.** Reports of testing in accordance with ASTM E72 as evidence of
218 compliance that the walls have adequate strength and stiffness to resist a horizontal
219 load of 5 psf (0.240 kN/m²) as required by 2018 IBC Section 1607.15 or 2015 IBC
220 Section 1607.14, since the booths exceed 6 feet (1829 mm) in height.

221 As an alternative to testing in accordance with ASTM E72, a report of
222 testing in accordance with Section 5.4 of NEBS GR-63-CORE and analysis with
223 calculations prepared by a registered design professional as evidence of compliance
224 that the booths have adequate strength and stiffness to resist a horizontal load of 5 psf
225 (0.240 kN/m²) as required by 2018 IBC Section 1607.15 or 2015 IBC Section 1607.14.

226 **B.** In accordance with Exemption 3 of Section 13.1.4 of ASCE 7-16 or
227 ASCE 7-10, the enclosed booths that comply with this criteria are not required to be
228 mechanically attached (anchored) to the structure for installation in buildings located in
229 Seismic Design Categories A or B.

230 For installation in buildings located in Seismic Design Categories A or
231 B, without mechanical attachment (anchored) to the structure, reports of testing, or
232 analysis with calculations prepared by a registered design professional, as evidence of
233 compliance with 2018 IBC Section 1604.4 shall be submitted showing that the enclosed
234 booths can be designed to resist instability (overturning and/or uplift) and sliding caused
235 by forces other than those due to seismic events. Where sliding is considered, the
236 effects of friction between sliding elements shall be included as a force.

237 **C.** In accordance with Section 13.4 of ASCE 7-16 or ASCE 7-10, the
238 enclosed booths that comply with this criteria are required to be mechanically attached
239 (anchored) to the structure when the building is located in Seismic Design Categories C,
240 D, E or F. For use in Seismic Design Categories C, D, E or F, the applicant shall submit
241 an analysis with calculations and details of specific anchorage requirements prepared
242 by a registered design professional.

243 **3.1.8 Safety Glazing:**

244 Evidence of compliance with impact testing and identification provisions
245 for safety glazing in accordance with IBC Section 2406. Specifically, CPSC 16 CFR Part
246 1201 impact testing in accordance with IBC Section 2406.2 and identification in
247 accordance with IBC Section 2406.3 applicable to safety glazing in hazardous locations
248 in accordance with IBC Section 2406.4. Glazing shall comply with the test criteria for
249 Category II, unless otherwise indicated in IBC Table 2406.2(1).

250 **Exception:** Glazing not in doors shall be permitted to be tested in
251 accordance with ANSI Z97.1. Glazing shall comply with the test criteria for Class A,
252 unless otherwise indicated in IBC Table 2406.2(2).

253 **3.1.9 Upholstered Furniture:**

254 Where the enclosed booth is equipped with attached upholstered furniture,
255 evidence of compliance with the following testing and identification provisions of IFC
256 Section 805.2 applicable to Group B occupancies:

257 **(1) IFC Section 805.2.1.1** – Resistance to ignition by cigarettes testing in
258 accordance with NFPA 261 with a char length not exceeding 1.5 inches (38 mm) or the

259 components of upholstered furniture shall meet the requirements for Class I when
260 tested in accordance with NFPA 260, and

261 **(2) IFC Section 805.2.1.2** – Heat release rate testing in accordance with
262 ASTM E1537 or California Technical Bulletin 133. The peak rate of heat release for the
263 single upholstered furniture item shall not exceed 80 kW. The total heat released by the
264 single upholstered furniture item during the first ten minutes of the test shall not exceed
265 25 MJ.

266 **Exception to (2):** Upholstered furniture in enclosed booths protected by
267 an *approved automatic sprinkler system* installed in accordance with IFC Section
268 903.3.1.1.

269 **(3) Identification** – Upholstered furniture shall bear the label of an
270 approved agency, confirming compliance with the requirements of IFC Sections
271 805.2.1.1 and 805.2.1.2.

272 **4.0 TEST PROCEDURES**

273 **4.1 Interior Wall and Ceiling Finish Tests:**

274 **4.1.1 Specimens:** The test specimens shall be as specified in ASTM E84
275 or UL 723.

276 **4.1.2 Procedures:** The test procedures shall be as specified in ASTM
277 E84 or UL 723, as applicable.

278 **4.1.3 Test Conditions:** The test conditions shall be as specified in ASTM
279 E84 or UL 723, as applicable.

280 **4.1.4 Conditions of Acceptance:** The conditions of acceptance shall be
281 as specified in 2018 IBC Section 803.1.2 (2015 IBC Section 803.1.1) applicable to the
282 interior finish requirements based on occupancy in accordance with 2018 IBC Section
283 803.13 (2015 Section 803.11).

284 **4.2 Floor Finishes and Floor Coverings Tests:**

285 **4.2.1 Specimens:** The test specimens shall be as specified in ASTM
286 E648 or NFPA 253 and the DOC FF-1 “pill test” (CPSC 16 CFR Part 1630) or with
287 ASTM D2859. Carpet type floor coverings shall be tested as proposed for use,
288 including underlayment, if provided.

289 **4.2.2 Procedure:** The test procedures shall be as specified in ASTM
290 E648 or NFPA 253 and the DOC FF-1 “pill test” (CPSC 16 CFR Part 1630) or with
291 ASTM D2859.

292 **4.2.3 Test Conditions:** The test conditions shall be as specified in ASTM
293 E648 or NFPA 253 and the DOC FF-1 “pill test” (CPSC 16 CFR Part 1630) or with
294 ASTM D2859.

295 **4.2.4 Conditions of Acceptance:** The conditions of acceptance shall be
296 as specified in IBC Section 804.2 for Classification as Class I (0.45 watts/cm² or
297 greater) or Class II (0.22 watts/cm² or greater). The minimum critical radiant flux shall
298 be not less than Class I in Occupancy Groups I-1, I-2 and I-3 and not less than Class II
299 in Occupancy Groups A, B, E, H, I-4, M, R-1, R-2 and S.

300 **4.3 Structural:**

301 **4.3.1 Specimens:** The test specimens shall be as specified in Section
302 12 of ASTM E72 or Section 5.4 of NEBS GR-63-CORE.

303 **4.3.2 Procedure:** The test procedure shall be as specified in Section 12
304 of ASTM E72 or Section 5.4 of NEBS GR-63-CORE.

305 **4.3.3 Test Conditions:** The test conditions shall be as specified in
306 Section 12 of ASTM E72 or Section 5.4 of NEBS GR-63-CORE.

307 **4.3.4 Conditions of Acceptance:** The report of ASTM E72 testing, or
308 the engineering analysis that supports the report of NEBS GR-63-CORE testing, shall
309 document that the walls or booth, respectively, have adequate strength and stiffness to
310 resist a horizontal load of 5 psf (0.240 kN/m²) without limit state failures of overturning
311 (NEBS GR-63-CORE testing only), permanent bending or permanent deflection (remain
312 in elastic form) or shear failure.

313 **5.0 QUALITY CONTROL**

314 **5.1** The enclosed booths shall be manufactured under an approved quality
315 control program with inspections by ICC-ES or by a properly accredited inspection
316 agency that has a contractual relationship with ICC-ES.

317 **5.2** Quality documentation complying with the ICC-ES Acceptance Criteria for
318 Quality Documentation (AC10) shall be submitted. A qualifying inspection shall be
319 conducted at each manufacturing facility when required by the ICC-ES Acceptance
320 Criteria for Inspections and Inspection Agencies (AC304).

321 **5.3** Ongoing follow-up inspections, by ICC-ES or by a properly accredited
322 inspection agency that has a contractual relationship with ICC-ES, are required under
323 this acceptance criteria.

324 **6.0 EVALUATION REPORT REQUIREMENTS**

325 **6.1** Product information, installation instructions, operating instructions, periodic
326 maintenance instructions, packaging and identification information based on
327 requirements in Section 2.1.

328 **6.2** Complete descriptions of the enclosed booths qualified in accordance with
329 the criteria.

330 **6.3** Requirements related to the periodic inspection and maintenance of the
331 enclosed booths.

332 **6.4** Wall and ceiling finish classification based on applicable provisions of IBC
333 Section 803.1.

334 **6.5** Floor finish or floor covering classification based on applicable provisions of
335 IBC Section 804.

336 **6.6** Enclosed booths complying with this criteria that are not equipped with a
337 sprinkler must be limited to use in unsprinklered buildings limited to NFPA 13 defined
338 Light Hazard Occupancies or in buildings equipped with an automatic sprinkler system
339 that are limited to NFPA 13 defined Light Hazard Occupancies.

340 **6.7** Enclosed booths complying with this criteria that are equipped with a
341 sprinkler are intended for use in buildings equipped with an automatic sprinkler system

342 that are limited to NFPA 13 defined Light Hazard Occupancies or Ordinary Hazard
343 (Group 1) Occupancies.

344 **6.8** Conditions of use consisting of the following, as applicable:

345 A. The enclosed booths are considered an occupiable space limited to use as
346 a Group B occupancy or the same occupancy assigned to the area of the structure
347 within which the enclosed booth is installed as intended for small assembly spaces in
348 accordance with Item 1 of IBC Section 303.1.2. Enclosed booths complying with this
349 criteria are for use in Light Hazard Occupancies or in Ordinary Hazard (Group 1)
350 Occupancies as defined in NFPA 13.

351 B. Use of the enclosed booths as a habitable space is outside the scope of
352 this report.

353 C. The electrical safety requirements and energy efficiency of the enclosed
354 booths are outside the scope of this report.

355 D. When required by the building official, an automatic sprinkler is to be
356 installed in each enclosed booth in accordance with IBC Section 903.3. As an
357 alternative to installing a sprinkler in each enclosed booth, the permit applicant may
358 propose use of the automatic sprinkler system within the existing building as a means to
359 protect the enclosed booth(s) provided a documented engineering analysis based on a
360 sprinkler effectiveness test is submitted to, and approved by, the code official at the time
361 of permit application.

362 E. When required by the building official, each enclosed booth must be
363 equipped with a smoke detector and a means of interconnecting to the existing

364 building's fire alarm system and occupant notification system in accordance with IBC
365 Section 907.

366 F. When required by the building official, each enclosed booth must be
367 equipped with a portable fire extinguisher in accordance with IBC Section 906 and IFC
368 Section 906.

369 G. In accordance with Exemption 3 of Section 13.1.4 of ASCE 7-16 or ASCE
370 7-10, the enclosed booths are not required to be mechanically attached (anchored) to
371 the structure when the building is located in Seismic Design Categories A ~~or~~ B.

372 H. In accordance with Section 13.4 of ASCE 7-16 or ASCE 7-10, the
373 enclosed booths are required to be mechanically attached (anchored) to the
374 structure when the building is located in Seismic Design Categories C, D, E or F

375 ~~6.9~~ When a single occupant enclosed booth has a door opening with a
376 minimum clear opening width of less than 32 inches (813 mm), the plans must be
377 submitted to, and approved by, the code official at the time of permit application or an
378 additional booth with a door opening with a minimum clear opening width of 32 inches
379 (813 mm) must be provided.

380 **6.106.9** When an enclosed booth has a minimum clear opening height of less than
381 80 inches (2032 mm), the plans must be submitted to, and approved by, the code
382 official at the time of permit application or an additional booth with a minimum clear
383 opening height 80 inches (2032 mm) must be provided.

384 **6.116.10** If an enclosed booth does not comply with the accessibility requirements
385 of IBC Chapter 11, the plans must be submitted to, and approved by, the code official at

386 the time of permit application or an additional booth complying with the accessibility
387 requirements of IBC Chapter 11 must be provided.

| 388 **6-126.11** When provided with transparent glazed openings so that occupants can
389 see visible alarm notification appliances located outside the enclosed booth, the view
390 must not be obstructed by the posting of signs, decorations, or the installation of blinds
391 or draperies.■