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To: ICC-ES Evaluation Committee
From: Chris Allen, P.E. and Manuel Chan, P.E., S.E, ICC-ES Staff
Date: October 2, 2020
Subject: Proposed New Acceptance Criteria for Enclosed Booths for Installation Inside New and Existing Buildings, Subject AC519-1020-R2 (CA/MC)

MEMO

The new acceptance criteria was proposed in the staff letter dated August 18, 2020. In response we received two comments and one rebuttal. The first comment was from the proponent Framery, the second comment from UL LLC and the rebuttal from Framery to the comment from UL LLC.

The comments are posted on the ICC-ES web site at <https://icc-es.org/wp-content/uploads/2020/08/06-AC519-1020-R2.pdf>.

The comment and rebuttal received from Framery are in support of approval, as proposed, of the proposed new acceptance criteria AC519.

Comments received from UL LLC have been determined by the ICC-ES staff to be not applicable to the enclosed booths being evaluated, or are already addressed in the proposed new acceptance criteria AC519. The ICC-ES staff is not proposing any additional changes to the proposed new acceptance criteria AC519 based on comments received from UL, LLC.

In this memo, the ICC-ES staff is proposing the following revision to the proposed criteria to combine Sections 6.9 and 6.10 into Section 6.9:

Section 6.9 If an enclosed booth does not comply with the means of egress, accessibility and interior space dimension requirements of IBC Chapters 10, 11 and 12, respectively, the plans must be submitted to, and approved by, the code official at the time of permit application or an additional booth with the means of egress, accessibility and interior space dimension requirements of IBC Chapters 10, 11 and 12 must be provided.

This revision is identified by the double strikethroughs and double underlines in the acceptance criteria draft enclosed with this memo. The single strikethroughs and single underlines in the acceptance criteria draft enclosed with this memo identify revisions between this draft and the previous draft submitted during the ICC-ES Evaluation Committee hearing on June 2, 2020.

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 in the staff letter dated August 18, 2020, and the revisions proposed in the acceptance criteria draft enclosed with this memo.

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.

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.

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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 ½ 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 ¼ inch (6.4 mm) in height and not more than ½ 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 ½ 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 ~~and~~ for 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. If an enclosed booth does not
384 comply with the means of egress, accessibility and interior space dimension
385 requirements of IBC Chapters 10, 11, and 12, respectively, the plans must be submitted

386 to, and approved by, the code official at the time of permit application or an additional
387 booth complying with the means of egress, accessibility and interior space dimension
388 requirements of IBC Chapters 10, 11 and 12 must be provided.

389 ~~6.10 If an enclosed booth does not comply with the accessibility requirements~~
390 ~~of IBC Chapter 11, the plans must be submitted to, and approved by, the code official at~~
391 ~~the time of permit application or an additional booth complying with the accessibility~~
392 ~~requirements of IBC Chapter 11 must be provided.~~

393 **6.116.10** When provided with transparent glazed openings so that occupants can
394 see visible alarm notification appliances located outside the enclosed booth, the view
395 must not be obstructed by the posting of signs, decorations, or the installation of blinds
396 or draperies.■