

ACCEPTANCE CRITERIA FOR QUALITY DOCUMENTATION

AC10

Approved June 2011

Previously approved February 2009, May 2008, February 2007, October 2005,
October 2004, June 2003, November 2001, March 2000,
April 1997, April 1995, September 1992

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.

This acceptance criteria has been issued to provide interested parties with guidelines for demonstrating compliance with performance features of the codes referenced in the criteria. The criteria was developed through a transparent process involving public hearings of the ICC-ES Evaluation Committee, and/or on-line postings where public comment was solicited.

New acceptance criteria will only have an “approved” date, which is the date the document was approved by the Evaluation Committee. When existing acceptance criteria are revised, the Evaluation Committee will decide whether the revised document should carry only an “approved” date, or an “approved” date combined with a “compliance” date. The compliance date is the date by which relevant evaluation reports must comply with the requirements of the criteria. See the ICC-ES web site for more information on compliance dates.

If this criteria is a revised edition, a solid vertical line (|) in the margin within the criteria indicates a technical change from the previous edition. A deletion indicator (→) is provided in the margin where wording has been deleted if the deletion involved a technical change.

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.

NOTE: The Preface for ICC-ES acceptance criteria was revised in July 2011 to reflect changes in policy.

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

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1.0 INTRODUCTION

1.1 Purpose: The purpose of this acceptance criteria is to establish requirements for information that is provided to ICC-ES with regard to product specifications and the documented quality system for all products, systems and materials to be recognized in ICC Evaluation Service, LLC (ICC-ES), evaluation reports.

1.2 Scope: This criteria is applicable to quality documentation that is submitted to ICC-ES in conjunction with an ICC-ES evaluation report. This criteria identifies specific information that shall be submitted to ICC-ES pertinent to the technical review of the product or system; and identifies information that shall be included in the report holder's documented quality system, which shall be verified through an on-site qualifying inspection of the manufacturing facility. This information will also be verified during regular inspections.

1.3 Definitions:

1.3.1 Inspection Agency: An agency accredited by International Accreditation Service (IAS), or by an accreditation body that is a partner with IAS in a mutual recognition arrangement pertaining to inspection bodies, as complying with ISO/IEC Standard 17020, *General Criteria for the Operation of Various Types of Bodies Performing Inspection*, and with the ICC-ES Acceptance Criteria for Inspections and Inspection Agencies (AC304).

1.3.2 Third-party Inspection: Activities by an inspection agency involving unannounced, periodic verification of conformance to quality system and product specification criteria.

1.3.3 Component or Constituent: Depending on the product, a component or constituent is one part of the finished product. A component may also be an element that is combined with the product to form an assembly.

1.3.4 Product: The unit recognized in the evaluation report that is supplied by the report holder and labeled with the evaluation report number.

1.3.5 Assembly or System: The product combined with other components.

1.3.6 Documented Quality System: The totality of the documents that describe and encompass the quality system as defined in this criteria. The documentation may be a single bound document or may be various documents found in various locations throughout the manufacturing facility. These may be in either printed or electronic form.

1.3.7 Quality Documentation: For the purposes of this criteria, quality documentation is those documents that address specific provisions in this criteria.

1.3.8 Certificate of Compliance: A document provided by the supplier of the component or constituent that attests the component or constituent complies with the report holder's stated specifications.

1.3.9 Certificate of Analysis: See Certificate of Compliance.

1.3.10 Report Holder: The ICC-ES applicant who is either the manufacturer of the product described in the evaluation report, a distributor of a recognized product that is manufactured by another party, or a party that packages and distributes specified components that constitute a final recognized product when assembled at the jobsite.

1.3.11 Significant Change: A significant change is one that may reduce the performance of the product as it pertains to applicable test standards or acceptance criteria.

1.4 General Requirements:

1.4.1 The information specified in Appendix A (entitled Information Submittal Requirements) shall be submitted by the report holder for each product or system to be recognized in the evaluation report. Appendix A should be utilized to verify that all required documents are submitted.

1.4.2 Quality System Documentation:

1.4.2.1 All applicants for an ICC-ES evaluation report in which a product or system is being recognized shall maintain, and make available for inspection (but need not initially submit to ICC-ES), quality system documentation specific to the manufacture of the product to be recognized in the report. The documentation shall address, at a minimum, the elements described in Section 2.0 of this acceptance criteria. Appendix B of this criteria shall be completed by the evaluation report applicant and submitted to ICC-ES prior to the on-site qualifying inspection. The major purpose of the documented quality system is to provide assurance, verifiable through inspection, that the manufactured product is consistent with the product described in the original qualifying data and recognized in the evaluation report.

1.4.2.2 When products are to be manufactured at multiple locations, the report applicant shall submit quality system documentation for each of the manufacturing sites.

1.4.2.3 The quality system documentation shall address requirements of applicable ICC-ES acceptance criteria, when this is specifically required by those criteria.

1.4.3 Declarations: The declarations addressed in Section 3.1 of this criteria shall be submitted by all evaluation report applicants. The declarations addressed in Section 3.2 of this criteria shall be submitted also, when third-party inspections are required.

1.4.4 Inspections:

1.4.4.1 Qualifying Inspection: A qualifying inspection shall be conducted by a representative of ICC-ES or by an agency accredited under the ICC-ES Acceptance Criteria for Inspection Agencies (AC304), to verify that the quality system is in place and is being implemented. The agency shall complete and sign a form, provided by ICC-ES, that is based on Appendices A and B of this criteria, attesting that the quality system incorporates the quality system documentation requirements of this criteria. The qualifying inspection shall verify that the product being manufactured is consistent with the product specifications information submitted to address Section 1.4.1 of this criteria. When the product specifications are not provided to ICC-ES except through reference to a controlled document, the controlled document describing the product specifications shall be made available to the inspection agency for their review and their verification that the product specifications are consistent with the product described in the original qualifying data.

1.4.4.2 Follow-up Inspections: Periodic inspections of the manufacturing facilities shall be

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conducted as prescribed in AC304 and, when applicable, as prescribed in the product-specific acceptance criteria. Requirements in the product-specific criteria take precedence over AC304. When the inspections are conducted by a third-party inspection agency, reports of the results of the inspection shall be submitted to ICC-ES on forms provided for that purpose.

1.4.5 Manufacturing by Parties Other than the Report Holder: When the product is manufactured by a party other than the report holder, the form provided in Appendix C shall be submitted, except as permitted by specific acceptance criteria.

1.4.6 Moving Manufacturing Locations:

1.4.6.1 Without Significant Change: When the move of manufacturing involves only a move of equipment and does not result in a significant change of methods or manpower or the product specifications, a statement shall be submitted to ICC-ES attesting to same. If the product is recognized under a third-party quality control program, the inspection agency shall confirm the statement.

1.4.6.2 With Significant Change: When the move of manufacturing results in a significant change of equipment, a change in the methods used to produce the product or system, a change in ownership or principal quality management, or a significant change in product specifications, the following shall be submitted to ICC-ES:

1. Revised quality documentation, as applicable.
2. Report of a qualifying inspection at the new location.
3. Data demonstrating that the product manufactured at the new location is equivalent to the product recognized by ICC-ES at the former location. Some ICC-ES acceptance criteria also have requirements for testing at new manufacturing locations.

2.0 REQUIRED ELEMENTS OF THE QUALITY SYSTEM DOCUMENTATION

2.1 General:

2.1.1 The documentation shall be signed and dated by an authorized representative of the manufacturer.

2.1.2 The documentation shall clearly state the facility name of the manufacturing location, the street address and telephone number, and the name of the contact person at the facility.

2.1.3 There shall be provisions for the quality system documentation to be reviewed at least annually. A record of revisions shall be maintained.

2.1.4 The documentation shall indicate how the recognized product is to be identified in the field. This information shall be consistent with the information in the "Identification" section of the evaluation report, and should include a copy of the product label or a description of what is included on the label. Product labeling shall include, at a minimum, the report holder's name, the evaluation report number (ICC-ES ESR-xxxx), and information required by the code, referenced standard, or applicable acceptance criteria.

2.1.5 Based on the product labeling, the quality system shall provide a means to trace finished product

back to the production and quality control records at the manufacturing facility.

2.1.6 The documentation shall describe the manufacturing process.

2.1.7 The documentation shall include provisions for the documenting of product changes, evaluation of product changes and notification to the appropriate parties.

2.1.8 The documentation shall include the manufacturer's organizational chart, and a description of the duties and responsibilities assigned to key positions in the quality program.

2.1.9 The documentation shall contain information on packaging and storage of the product, if packaging and storage are critical to the product performance.

2.1.10 The documentation shall describe the process whereby (1) records are kept of all significant complaints about the product(s) covered by the evaluation report; (2) appropriate action is taken with respect to such complaints; and (3) the actions taken are documented.

2.2 Incoming Materials: The documentation shall include procedures regarding inspections or tests that are conducted on incoming materials, or other means used to determine that the materials meet specifications (for example, mill test reports, certificates of analysis, certificates of compliance, etc.). If incoming material requiring a certificate at the time of receipt does not carry such a certificate, then the documentation shall contain provisions for the material to be segregated until it has been appropriately tested or inspected, or the certificate is received.

2.3 In-process Quality Control: The documentation shall describe in-process quality control procedures, including how manufacturing processes are monitored to ensure that the product is consistently manufactured within the allowable tolerances.

2.4 Final Inspection: The documentation shall detail any final inspections and/or tests that are conducted before the product is labeled and shipped, to ensure that the finished product complies with specifications and applicable design values.

2.5 Nonconforming Materials: The documentation shall specify how nonconforming materials—incoming materials, materials in production, and finished materials—are segregated from production until a decision is made as to their disposition.

2.6 Measuring and Test Equipment:

2.6.1 The documentation shall identify the measuring and test equipment that is used to determine whether products and materials meet minimum specifications.

2.6.2 As regards the equipment addressed in Section 2.6.1, the documentation shall note the frequency of equipment calibration, and the means of determining the traceability of measurements to national standards.

2.7 Inspection and Test Records: As regards any forms, checklists, reports, etc., used by in-house personnel to document tests, inspections, and other quality control procedures:

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2.7.1 The documentation shall identify these documents.

2.7.2 The documentation shall describe how the completed documents are approved by responsible personnel.

2.7.3 The documentation shall contain a statement committing the manufacturer to retaining the completed forms, checklists, and reports for a minimum of two years. (In cases where third-party inspections are required, the statement shall also say that the resulting inspection reports will be retained for at least two years.)

3.0 REQUIRED DECLARATIONS

3.1 Declarations Required of All Report Holders: The following declarations shall be provided to ICC-ES in a signed and dated declaration from the report holder:

3.1.1 The ICC-ES name, mark, or report number will only be used on products that are in compliance with the evaluation report and the quality system documentation.

3.1.2 The report holder will promptly investigate and respond to ICC-ES when apprised by ICC-ES of complaints concerning product performance.

3.1.3 The report holder agrees to permit ICC-ES representatives to examine, at distribution points and the manufacturing plant, any product labeled as being in conformance with the evaluation report.

3.1.4 ICC-ES will be notified in writing if there is a significant change in the product, manufacturing procedures or quality system documentation from what was recognized upon issuance of the evaluation report.

3.2 Declarations Required of Report Holders for Products That Require Third-party Inspections: In cases where third-party inspections are required, the following declarations shall also be provided to ICC-ES in a signed and dated declaration from the report holder:

3.2.1 ICC-ES will be notified in writing prior to termination of the inspection agreement with the accredited inspection agency, when such termination is initiated by the report holder.

3.2.2 ICC-ES will be notified in writing if there is a failure to conduct unannounced follow-up inspections in accordance with the approved quality documentation.■

**APPENDIX A
INFORMATION SUBMITTAL REQUIREMENTS¹**

The evaluation report applicant shall submit information as follows for each product/system to be recognized in the evaluation report. For each item, provide a description or explanation; if there are attached supporting documents; identify the document and the date of the document. Identify the report applicant and the file or report number with each submittal.

REQUIREMENT
1. Name of product, material or system, including model number, if applicable.
2. Identify each component or constituent of the product that is supplied to the jobsite by the report applicant. ²
3. Identify where the product and components provided by the evaluation report applicant are manufactured. If the product is assembled from purchased components, identify where final assembly/formulation and labeling are done. If the product is manufactured by a company other than the report applicant, provide the name of the company. If a portion of the process is done by a company other than the report applicant, or if a component is supplied by another company, identify the relevant components or portions of the process and how those components or portions of the process are verified as complying with the manufacturer's specifications.
4. Briefly describe the manufacturing process. A flowchart would be helpful. ³
5. Provide all relevant specifications for the product, the components and/or constituents used to manufacture the product, and the components used with the product in the final assembly. When agreed to by ICC-ES, in lieu of providing the actual specifications, the applicant may identify the controlled document that describes the product specifications, provided the document is identified by a revision level and/or date. Specifications must be consistent with the products as described in the submitted test reports and with any requirements of applicable acceptance criteria. ⁴
6. Describe the test procedures, and the conditions of acceptance, for incoming materials and for in-process and/or final product testing to ensure the product's performance is at least equal to that shown in the original qualifying tests. Describe any quality control tests required by the applicable acceptance criteria or standard.
7. Provide the name of the inspection agency, if applicable, and provide evidence of a contractual agreement with the agency to conduct a minimum of four inspections per year (or the number of inspections specified in the applicable acceptance criteria or agreed to by ICC-ES).
8. Describe how the product is labeled. At a minimum, products shall be labeled in accordance with Section 2.1.4 of AC10 and the requirements of any applicable code, reference standard or acceptance criteria.
9. For products not required to have third-party inspections, provide a signed and dated declaration (from the report applicant) attesting that the product specifications submitted with Appendix A are consistent with those of the products tested to qualify for an evaluation report and with the products described in the test reports submitted to ICC-ES. The declaration must include the test report numbers and dates. See Section 3.2 of the Acceptance Criteria for Test Reports (AC85).
10. For products required to have third-party inspections, enclose documentation from the accredited laboratory or inspection agency sampling the materials for testing, that the specifications of the materials sampled for testing are consistent with the specifications submitted with Appendix A. See Section 3.1 of AC85.
11. Declarations required in Sections 3.1 and 3.2 (if applicable) of AC10. These are to be provided in a separate document signed by the report applicant.

¹For definitions of the terms component, constituent, product, assembly and system, see Section 1.3.

²For example, sandwich panels may consist of facers, core, framing and adhesive; patio covers may consist of extruded aluminum members, aluminum panels and fasteners; single-ply roofing membranes may consist of asphalt, reinforcement and fillers.

³For example, note if the product is cast or formed; if the product is mixed from purchased chemicals; if components are purchased and then assembled at the jobsite.

⁴Some examples include:

- a. Sandwich panels: provide dimensioned drawings of finished panels with tolerances, and minimum requirements for components (for example, thickness and grade of panel facers, adhesive as recognized in ESR-xxxx, etc.)
- b. For mixed materials (wet and dry), provide the following:
 - i. Specifications of incoming materials, or the date of the signed, controlled document that describes each constituent and its specification.
 - ii. Mix ratios of the constituents, or the date of the signed, controlled document that describes the mix ratio.
 - iii. Finished product specifications (for example, for wet products, specific gravity and viscosity; for formed products, weight, compressive strength, etc.).

⁵Supporting documentation must be dated.

**An electronic version of Appendix A can be downloaded from the ICC-ES web site at
<http://www.icc-es.org/QC/index.shtml>**

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**APPENDIX B
QUALITY SYSTEM DOCUMENTATION CROSS-REFERENCE MATRIX**

Identify in the matrix below where, in the quality system documentation, the information required in Section 2.0 of the ICC-ES Acceptance Criteria for Quality Documentation (AC10) can be found.

Company Name: _____

Product/Material: _____

Evaluation Report or File No: _____

Completed by: _____ Date: _____

AC10 SECTION	DOCUMENT IDENTIFICATION AND PAGE NO.	DATE OF DOCUMENT	COMMENTS (IF NEEDED)
2.1.1 (Signature)			
2.1.2 (Manufacturing location and contact info)			
2.1.3 (Manual revisions)			
2.1.4 (Product identification)			
2.1.5 (Traceability)			
2.1.6 (Work flow)			
2.1.7 (Product changes)			
2.1.8 (Organizational information)			
2.1.9 (Packaging)			
2.1.10 (Complaints procedure)			
2.2. (Incoming materials)			
2.3 (In-process quality control)			
2.4 (Final inspection)			
2.5 (Nonconforming materials)			
2.6.1 (Test equipment)			
2.6.2 (Calibrations)			
2.7.1 (QC forms)			

APPENDIX B
QUALITY SYSTEM DOCUMENTATION CROSS-REFERENCE MATRIX (Continued)

AC10 SECTION	DOCUMENT IDENTIFICATION AND PAGE NO.	DATE OF DOCUMENT	COMMENTS (IF NEEDED)
2.7.2 (Document approval)			
2.7.3 (Records retention)			

An electronic version of Appendix B can be downloaded from the ICC-ES web site at
<http://www.icc-es.org/QC/index.shtml>

APPENDIX C

AGREEMENT BETWEEN REPORT HOLDERS AND MANUFACTURERS

Report holder/applicant name (hereafter called the report holder)

Address

Report or file number

Manufacturer name and address

Products recognized in the subject evaluation report will be manufactured by a party other than the report holder. To ensure that all parties involved understand the conditions placed on manufacturers of products recognized in ICC-ES evaluation reports, the report holder and manufacturer are hereby advised of the following:

1. The manufacturer agrees that products being manufactured are consistent with the products that are recognized in the above-noted evaluation report and with the quality documentation submitted to and approved by ICC-ES. The manufacturer shall maintain a quality system complying with the ICC-ES Acceptance Criteria for Quality Documentation (AC10), Section 9.0 of the ICC-ES Rules of Procedure for Evaluation Reports and any other applicable ICC-ES acceptance criteria.
2. The manufacturer agrees that the report holder will be notified of any changes in the product or the quality system.
3. The manufacturer and report holder agree to inform ICC-ES of any change in the agreement between the report holder and the manufacturer that affects Item 1 above, including cancellation of the agreement.
4. The manufacturer and report holder have received and reviewed AC10 and the ICC-ES Rules of Procedure for Evaluation Reports. Any questions on these documents should be directed to ICC-ES staff.

Signature for manufacturer

Signature for report holder

Date

Date

Name of signer (type or print)

Name of signer (type or print)

Title of signer

Title of signer

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