

IEBC - Chapter 5, Repairs - Points to Note

Section 501 - General

501.1 Scope. Repairs shall comply with the requirements of this chapter. Repairs to historic buildings shall comply with this chapter, except as modified in Ch 11.

Section 501.2 Permitted materials

Except as otherwise required or permitted by this code, materials permitted by the applicable code for new construction shall be used. Like materials shall be permitted...

Section 501.3 Conformance

The work shall not make the building less conforming than it was before the repair was undertaken.

Section 502.1 Hazardous materials

Hazardous materials that are no longer permitted, such as asbestos and lead-based paint, shall not be used.

Section 502.2 Glazing in hazardous locations.

Replacement glazing in hazardous locations shall comply with the safety glazing requirements of the IBC.

Section 503.1 Fire Protection

Repairs shall be done in a manner that maintains the level of fire protection provided.

Section 504.1 Means of Egress

Repairs shall be done in a manner that maintains the level of protection provided for the means of egress.

Section 505.1 Accessibility

Repairs shall be done in a manner that maintains the level of accessibility provided.

Section 506 Structural

506.1 General. Repairs of structural elements shall comply with this section.

Section 506.1.1.1 Evaluation and design procedures

...evaluation and design shall be based on the procedures specified in the IBC, ASCE 31 or FEMA 356.

Section 506.1.1.2 IBC level seismic forces

When required to meet the IBC level...they shall be one of the following:

- 1. One-hundred percent of the values in the IBC...or*
- 2. ...BSE-1 and BSE-2 Earthquake Hazard Levels defined in FEMA 356. (ref. Table 506.1.1.2)*

Section 506.1.1.3 Reduced IBC level seismic forces

Seismic forces permitted to meet reduced IBC levels, they shall be one of the following:

- 1. Seventy-five percent of the forces prescribed in the IBC.*
- 2. I/A/W the applicable chapters in Appendix A.*
- 3. I/A/W ASCE 31 –Table 506.1.1.2*
- 4. FEMA 356*

Section 506.1.2 Wind design

Wind design of existing buildings shall be based on the procedures specified in the IBC.

Section 507 Electrical

507.1 Material. Existing electrical wiring and equipment undergoing repair shall be allowed to be repaired or replaced with like material.

Section 507.1.1 Receptacles

Replacement of electrical receptacles shall comply with the applicable requirements of Section 406.3(D) of NFPA 70.

Section 507.1.2 Plug fuses

Plug fuses of the Edison-based type shall be used for replacements only where there is no evidence of over fusing or tampering per applicable requirements of section 240.51(B) of NFPA 70.

Section 507.1.3 Non-grounding-type receptacles

...permitted to be grounded to any accessible point on the grounding electrode system in accordance with Section 250.130(C) of NFPA 70.

Section 507.1.4 Group I-2 receptacles

...non-hospital grade receptacles in patient bed locations of I-2 shall be replaced...as required by NFPA 99 and Article 517 of NFPA 70.

Section 507.1.5 Grounding of appliances

Frames of electric ranges, wall-mounted ovens, counter-mounted cooking units, clothes dryers and outlet or junction boxes that are part of an existing branch circuit shall be permitted to be grounded to the grounded circuit in accordance with Section 250.140 of NFPA 70.

Section 508.1 Mechanical

Existing mechanical systems undergoing repair shall not make the building less conforming than it was before the repair was undertaken.