

## 2016 Helistops - Heliports Reminder List

### Applicable Codes and Standards

CBC 2016, CFC 2016, NFPA 418 - 2011 edition

#### I. Scope

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| <p>1. Building Code requirements for heliports and helistops are not applicable to facilities located on grade. NFPA 418 requirements are not applicable to temporary landing sites and emergency evacuation facilities.</p> | <p><b>CBC, Sec. 412.8 &amp; NFPA 418, Sec. 1.1.4</b></p> |
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**CHK**

**N/A**

#### II. Helistops/Heliports Located on Buildings

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|--------------------------|--------------------------|---|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <p>1. All landing areas located on buildings or structures shall have at least two means of egress.</p>   | <p><b>CBC, Sec. 412.8.3</b></p>                              |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>2. Two means of egress from the rooftop landing pad to the building's egress system shall be provided.</p>   | <p><b>NFPA 418, Sec. 5.5</b></p>                             |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>3. Egress points shall be at least 90° apart as measured from the center of landing pad, remotely located not less than 30' apart with no two egress point located on the same side of the roof top landing pad. Means of egress shall not obstruct flight operations.</p>       | <p><b>NFPA 418, Sec. 5.5.1, 5.5.2, 5.5.3 &amp; 5.5.4</b></p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>4. When landing platforms or roof areas are less than 60' in length or less than 2,000 sq. ft. in area, the second means of egress may be a fire escape, alternating tread device or ladder leading to the floor below.</p>  | <p><b>CBC, Sec. 412.8.3</b></p>                              |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>5. The heliport shall have at least two access points for fire-fighting/rescue personnel. The access points shall be located at least 90 degrees from each other as measured from the center of the landing pad.</p>   | <p><b>NFPA 418, Sec. 4.4.1</b></p>                           |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>6. The landing area for helicopters less than 3,500 pounds shall be not less than 20 feet in length and width. The landing area shall be surrounded on all sides by a clear area having a minimum average width at roof level of 15 feet but with no width less than 5 feet.</p> | <p><b>CBC, Sec. 412.8.1 &amp; CFC Sec. 2007.2</b></p>        |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>7. The landing area requirements for helicopters of 3,500 pounds or larger are enforced by the Federal Aviation Administration, Department of Transportation. See FAA A/C 150/5390-2B Heliport Design Advisory Circular, Sept. 30, 2004, for additional information.</p>         | <p><b>NFPA 418, Sec. 4.2.2</b></p>                           |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>8. Landing areas shall be designed to confine fuel spills to the landing area and shall drain away from exits, stairways or from a structure housing such exit or stairway. A fuel/water separator or another approved method shall be provided to contain a fuel spill.</p>     | <p><b>CFC, Sec. 2007.3 &amp; CBC, Sec. 412.8.2</b></p>       |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>9. The rooftop landing pad shall be pitched to provide drainage at a slope of 0.5% to 2% in order to protect the means of egress, passenger holding area, firefighting access points and fire protection activation systems.</p>   | <p><b>NFPA 418, Sec. 5.3 &amp; Sec. 5.3.1</b></p>            |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>10. Drainage flow from the rooftop landing pad shall not penetrate alternate egress points, stairways, ramps, hatches and other openings not designed for drainage.</p>  | <p><b>NFPA 418, Sec. 5.3.2</b></p>                           |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>11. The pitch of the pad shall not be required where the pad consists of a passive fire protection grid surface designed and listed for fuel catchment and containment.</p>  | <p><b>NFPA 418, Sec. 5.3.3</b></p>                           |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>12. Helicopter landing areas and the supports thereof on the roof of a building shall be noncombustible construction.</p>  | <p><b>CBC, Sec. 412.8.2</b></p>                              |
| <input type="checkbox"/> | <input type="checkbox"/> | <p>13. Main structural support members that could be exposed to a fuel spill shall be 2-hour rated fire resistant construction.</p>   | <p><b>NFPA 418, Sec. 5.2</b></p>                             |

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|--------------------------|--------------------------|--|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 14. The rooftop landing surface shall be constructed of approved noncombustible, nonporous materials.  | <b>NFPA 418, Sec. 5.4.1</b>                  |
| <input type="checkbox"/> | <input type="checkbox"/> | 15. The contiguous building roof covering within 50 feet of the landing pad edge shall have a Class A rating.  | <b>NFPA 418, Sec. 5.4.2</b>                  |
| <input type="checkbox"/> | <input type="checkbox"/> | 16. Where guardrails are required for roof, guardrail height may require greater platform height.  | <b>CBC Sec. 1015.1</b>                       |
| <input type="checkbox"/> | <input type="checkbox"/> | 17. At least one portable fire extinguisher having a minimum 80-B:C rating shall be provided at each helistop.   | <b>CFC Sec. 2007.7</b>                       |
| <input type="checkbox"/> | <input type="checkbox"/> | 18. A Class I or III standpipe (2-1/2" outlet) is required when the building is equipped with a standpipe system. All areas of a helistop or heliport area shall be located within 150 feet of the hose outlet.        | <b>CFC Sec. 2007.5</b>                       |
| <input type="checkbox"/> | <input type="checkbox"/> | 19. Foam fire-protection capabilities shall be provided for rooftop heliports. Such systems shall be designed, installed and maintained in accordance with the applicable provisions of CFC Sections 903, 904 and 905. | <b>CFC Sec. 2007.6</b>                       |
| <input type="checkbox"/> | <input type="checkbox"/> | 20. Where trained personnel are not available, fixed fire protection outlet(s) shall be provided.  | <b>NFPA 418, Sec. 5.7.1</b>                  |
| <input type="checkbox"/> | <input type="checkbox"/> | 21. The foam discharge rate for the fire-extinguishing system shall be 0.10 gpm/ft <sup>2</sup> for aqueous film forming foam (AFFF).  | <b>NFPA 418, Sec. 5.7.2</b>                  |
| <input type="checkbox"/> | <input type="checkbox"/> | 22. The area of application of foam discharge for fixed discharge outlet systems shall be the entire rooftop landing pad.  | <b>NFPA 418, Sec. 5.7.3.1</b>                |
| <input type="checkbox"/> | <input type="checkbox"/> | 23. The duration of foam discharge for the fixed discharge outlet system shall be 5 minutes.   | <b>NFPA 418, Sec. 5.7.3.2</b>                |
| <input type="checkbox"/> | <input type="checkbox"/> | 24. The supply calculation method shall be performed in accordance with Chapter 6 of NFPA 409, Standard on Aircraft Hangars.   | <b>NFPA 418, Sec. 5.7.3.2.1</b>              |
| <input type="checkbox"/> | <input type="checkbox"/> | 25. Fire alarm pull stations are required at roof exits.   | <b>NFPA 418, Sec. 5.9.1</b>                  |
| <input type="checkbox"/> | <input type="checkbox"/> | 26. A means of communication shall be provided from the roof area to notify the fire department of emergencies.  | <b>NFPA 418, Sec. 5.9</b>                    |
| <input type="checkbox"/> | <input type="checkbox"/> | 27. No smoking shall be permitted within 50 feet of the landing pad edge. NO SMOKING signs shall be provided at access and egress locations.   | <b>NFPA 418, Sec. 4.6.1 &amp; Sec. 4.6.2</b> |
| <input type="checkbox"/> | <input type="checkbox"/> | 28. FAA and California Department of Transportation (CALTRANS) approval is required.   | <b>CFC Sec. 2007.8</b>                       |

**2016 California Building Code – Part 2, Title 24, CCR  
(2015 International Building Code and 2016 California Amendments)**

**2016 California Fire Code – Part 9, Title 24, CCR  
(2015 International Fire Code and 2016 California Amendments)**

**National Fire Protection Association (NFPA)  
NFPA 418 *Standard for Heliports*, 2011 Edition**

**NOTE**

**Compliance with all items on this list does not necessarily assure compliance with all provisions of the applicable codes and standards. This reminder list should be used only by persons with a comprehensive knowledge of the applicable codes and standards.**

OSHPD Policy Intent Notices and Code Application Notices.

<http://www.oshpd.ca.gov/FDD/Regulations/CANs/index.html>

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[http://www.oshpd.ca.gov/FDD/project\\_status/index.asp](http://www.oshpd.ca.gov/FDD/project_status/index.asp)

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