

**Table 9.3: General Requirements of Water based Fire Protection Systems**

ITEMS	REQUIREMENTS
<b>15. HOSE CABINET</b>	<ul style="list-style-type: none"> <li>iv. Fire Hose Cabinets shall be located next to the exit doors at ground floor and exit stair door at typical floors, in the exit corridor in each floor of the building.</li> <li>v. Where Horizontal Exit is provided in a building, Fire Hose Cabinets shall be installed on both sides of such horizontal exits.</li> <li>vi. The fire hose cabinet shall not be more than 6 m away from the exit stair door. Additional Fire Hose Cabinets shall be installed in exit corridors of each floor such that any part of the building, in each floor is within 30 m from the Fire Hose Cabinet.</li> <li>vii. The hose Cabinet shall have signage both in Arabic and English, clearly identifying the class of the hose connection.</li> </ul>
<b>16. HOSE</b>	<ul style="list-style-type: none"> <li>i. The hose diameter shall be of size as required by other sections of this chapter as per the Hose System classification (Class I, Class II and Class III).</li> <li>ii. The hose length shall be 30 m long, approved and listed by Civil Defence as per material test standards mentioned in <b>Section 6. of this chapter</b>.</li> </ul>
<b>17. NOZZLE</b>	<ul style="list-style-type: none"> <li>i. The hose Nozzle diameter shall be of the size as required by other sections of this chapter as per the Hose System classification (Class I, Class II and Class III) and approved and listed by Civil Defence as per the material test standards mentioned in <b>Section 6. of this chapter</b>.</li> </ul>
<b>18. PROTECTION</b>	<ul style="list-style-type: none"> <li>i. Dry &amp; wet riser piping in any building, shall be installed within a protected enclosure having fire-resistance rating of not less than 2 hours.</li> <li>ii. If the building is fully protected by an automatic sprinkler system, the protection of horizontal branches and mains shall not be required.</li> </ul>
<b>19. PAINT COLOR</b>	<ul style="list-style-type: none"> <li>i. All steel pipes &amp; fittings used for fire fighting service shall be painted in red color.</li> <li>ii. There shall be directional arrow marks to indicate the direction of water flow in the system. See <b>Figure 9.3</b>.</li> </ul>
<b>20. INSTALLER QUALIFICATIONS</b>	<ul style="list-style-type: none"> <li>i. The installation of fire protection systems shall be carried out only by Civil Defence approved and registered "Fire Protection Contractors".</li> <li>ii. The installation personnel shall be qualified or shall be supervised by persons who are qualified in the installation, inspection and testing of fire protection systems.</li> <li>iii. Each installer shall have a Civil Defence' valid license, which is issued upon his successful passing of Civil Defence qualification examinations.</li> <li>iv. Qualifications or certification of the personnel and Civil Defence license shall be produced at any time when requested by the Civil Defence Authorities.</li> </ul>



**Figure 9.3.: Fire Water Flow Directional Signs**