

Design System and Method of Server Based Firefighting Sprinkler Equipment

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Abstract. After the recent Jecheon Public Bath disaster in Korea, there was full stretch check on sprinklers by the government. Whole people in the country felt shock due to operating error and failure of sprinkler. Accordingly, the interest in Performance Based Design (PBD) increases on the firefighting sprinkler equipment of the building. Thus, this study proposed a firefighting sprinkler design system and method for Performance Based Design (PBD) on the firefighting water pressure sprinkler. It is effective to provide a system for easy acquisition of factor's attribution value using various design layout of sprinkler design that satisfied domestic and foreign regulations through an application program installed on the personal mounting type PC or mobile device.

Keywords: Server Based Firefighting Sprinkler, Performance Based Design, PBD Sprinkler.