

INTISARI

Perancangan sistem perpipaan hidran dan sprinkler di Sejahtera Family Hotel and Apartment bertujuan untuk pencegahan bahaya kebakaran dan pemadaman api sedini mungkin.

Perancangan ini menggunakan Standar Nasional Indonesia (SNI) dengan klasifikasi hunian bahaya kebakaran ringan.

Dari perhitungan diperoleh debit total $13,05 \text{ m}^3/\text{menit}$, layanan 20% dari layanan seluruh gedung dan head total 71,8 m. Pipa menggunakan bahan ASTM A106 *Grade B* dengan ukuran 10" sch 20, 6" sch 40, 4" sch 10S dan 2,5" sch 10S. Pompa yang digunakan buatan *Torishima Pump MFG. Co. Ltd.* Tipe 100-500 daya 30 kW.

ABSTRACT

The design of hydrant and sprinkler piping system in Sejahtera Family Hotel and Apartment aimed to prevent fire and extinguish fire as soon as possible.

This design uses Indonesian National Standard (INS) with classified slight-dangerous-fire living.

From this calculation got total capacity is 13.05 m³/minute, service is 20% of the whole building with total head 71,8 m. This pipe uses ASTM A106 grade B materials with measure 10" sch 20, 6" sch 40S, 4" sch 10S and 2.5" sch 10S. Uses pump produced by Torishima Pump MFG. Co. Ltd. type 100-500 with power 30 kW.