

## Perkiraan nilai fire load kamar di asrama y di jakarta dan gambaran evakuasi kebakaran = The fire load room estimations value of y dormitory in jakarta and fire evacuation

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### Abstrak

[<b>ABSTRAK</b><br>

Penelitian dengan judul Fire Load kamar asrama Y di Jakarta merupakan penelitian deskriptif komparatif. Penelitian ini menggambarkan nilai fire load yang berasal dari bahan perlengkapan di dalam ruangan (kamar) baik yang bersifat fixed seperti kusen dan pintu maupun yang bersifat movable seperti kursi, tempat tidur dan lainnya. Perlengkapan kamar kemudian dikategorikan menurut tipe pertumbuhan api, yaitu ultrafast, fast, medium dan slow. Waktu perkiraan evakuasi dihitung dengan menggunakan model matematis sederhana berdasarkan gambaran komponen sarana evakuasi gedung.

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Dari hasil penelitian terhadap 13 kamar asrama di asrama Y diketahui rata-rata nilai Fire Load adalah 356.0 MJ/m<sup>2</sup>. Hasil tersebut melebihi survey yang dilakukan oleh puslitkim PU pada tahun 1997. Menurut tipe pertumbuhan apinya 66.6 % perlengkapan asrama memiliki sifat pertumbuhan api medium, 26.9 % perlengkapan memiliki pertumbuhan api sifat fast namun 6.5% perlengkapan asrama memiliki sifat pertumbuhan api ultra fast (waktu tumbuh 75 detik). Hasil perhitungan waktu evakuasi tanpa hambatan adalah 15 menit 48 detik pada siang hari dan 13 menit 31 detik pada malam hari

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<b>ABSTRACT</b><br>

The fire load room estimations value of Y dormitory in Jakarta and fire evacuation is a descriptive and comparative research. This research calculated fire load derived from room facilities material either fixed fire load (siils, door etc) and movable Fire Load (chair, bed, etc). The material then categorized based on fire growth type, e g ultrafast, fast, medium and slow. The evacuation time has calculated using simple mathematics method based on evacuation means.

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From 13 room in Y boardinghouse, the mean of fire load is 356.0 MJ/m<sup>2</sup>. This result is higher than fire load that calculated by PU in 1997. Refer to fire growth type, 66.6 % equipment have medium fire growth, 26.9 % equipment have fast fire growth and 6.5% have ultra fast fire growth (fire growth 75 s). Evacuation time is 15 minute 48 second in afternoon dan 13 minute 31 second at night.;The fire load room estimations value of Y dormitory in Jakarta and fire evacuation is a

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