

ABSTRAK

RIA SEPTIYANTHY, Analisis Penerapan Sistem Penangkal Petir yang Digunakan Pada Gedung Pusat Perbelanjaan (Studi Pada Mall Kota Kasablanka). Pembimbing Readysal Monantun dan Irzan Zakir.

This research aims to analyze the efficiency of protection system (the level of protection) and the radius protection external lightning rod system such as shopping center building, Kota Kasablanka Mall .

The methods that used in this research is descriptive research methodology or survey and obtain data with the facts based on accurate obeservasi conducted .Where researchers obseved a system of external lightning rod used as well as evaluate where efficiency protection system (the level of protection) and radius protection system lightning rod external the location and how mall area protection against of a bolt of lightning.

The results of research Kota Kasablanka Mall use lightning ESE Rod (Early Streamer Emission) is prevecatron 2 of the millennium type S 6.60 radius protection because 79 meters , broad protection area 39.193,48 m² , and angles protection of 19,94°.The determination of the needs of the building against lightning protection based on puipp and nfpa mall city kasablanka having great value that is 18 and 4 so that in this mall is considered to be building that really need protection system against of a bolt of lightning .Obtained efficiency lightning protection of 0,97 so that mall city kasablanka included in the level of the level of protection 1.

The usage of a lightning rod applied to the Kota Kasablanka Mall based on the situation and the condition of buildings and widespread the effective protection provided protection for the good and the dwellers in those buildings so since operated yet there are various kinds of disorder due to the presence of a bolt of lightning

Keyword : Lightning Rod System, Lightning Protection, Kota Kasablanka Mall