STRUCTURE REDESIGN OFFICE AND ARCHIVE
BUILDING DITLANTAS POLDA JATIM SURABAYA WITH
INTERMEDIATE MOMENT RESISTING FRAME SYSTEM
METHODE

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Abstract
Office and archive building Ditlantas Polda Jatim Surabaya in quakes zone 2, but this calculation is planned to present in quakes zone 4. This case is based from Surabaya position in Indonesian quake zone area map (SNI 1726-2002) isn’t far from quake zone 4 so it possible that Surabaya city reside in zone 4. In the planning used Intermediate moment bearer draft system (SRPMM) we count loads in every floor. All load calculations are based from Load Regulation for Building 1983 (PPIUG 1983). While quakes load are based from Quake Endurance Planning for Building Regulation (SNI 03-1726-2000). For it’s quake load calculation planning using static equivalen analysis and it’s structural analysis using 3 dimensions frames analysis. Calculation in upper structure and under structure using Concrete Structure for Building Regulation (SNI 03-2847-2002) and other supporting regulation.

From analysis and calculation that done got the result, that upper structure is consist of 12 cm thick floor plate and 10 cm roof plate: 50 x 50 cm column dimension ; 30 x 60 cm and 20 x 30 cm beam dimension; ladder with 18 cm ascent height and 27 cm tre wide ; while in under structure got ø 30 cm piling dimension with 24 m depth.

keyword: SRPMM, static equivalent