STRUCTURAL DESIGN
OF RUMAH SUSUN SEDERHANA DAN SEWA
(RUSUNAWA) MAUMERE BUILDING WITH SPECIAL
MOMENT RESISTING FRAME SYSTEM

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Abstract

In this project, drafter design structure of Rumah Susun Sederhana Dan Sewa (RUSUNAWA) Maumere with SRPMK. The purpose of using SRPMK methods is to get building which is against earthquakes and unrealized breakable collapse.

The calculation which is did in structural design fitted with exist regulations, such as Tata Cara Perhitungan Struktur Beton Untuk Bangunan gedung (SK SNI 03-2847-2002), PBI 1971, Peraturan Pembebanan Indonesia Untuk Gedung (PPIUG 1983), dan Peraturan Perencanaan Tahan Gempa Untuk Rumah Dan Gedung (SK SNI 03-1726-2002)

The final project process began from getting drawing and land data, than continued by structure planning. Structure planning devide three main groups such as prime structure (beam and columns), secondary structure (secondary beam, plate, and stairs) and under building (pile cap, sloof, and foundations)

Burden of earthquakes on the structure calculated by spectrum respons method, where to calculated internal forces on the buildings components either secondary or prime using ETABS v9.0.7 support programming.

From the calculation have done, we realized in the structure detail drawings report from which is can be refered in development accomplishment.
Keyword : Special Moment Resisting frame System