

THESIS

STANDARDIZATION ANALYSIS DETAILING

THE STRUCTURE OF HOME STORE

IN MANADO CITY

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CHAPTER I INTRODUCTION

1.1. Background

The process of planning or designing and analyzing a building structure covers many things that involve several fields of civil engineering, thus designing and analyzing a building requires understanding of the various fields of civil engineering.

The buildings of the home store are a blend of living and commercial functions that have existed in Indonesia since the time of colonization. Store buildings in Indonesia are closely related to Chinese communities. Starting with the main activity of Chinese people in Indonesia, trade was imposed on land restrictions, and the creation of new store buildings was designed to house trade and housing. In today's Indonesia, home-store types are proliferating and are often found in parallel with residential and commercial functions. But in reality the buildings of the store that are supposed to home a function and the stores cannot function properly. , the design and calculations of the structure are necessary for the construction of home store buildings to contain aesthetic beauty as well as building security factors.

Improper structural planning leads to instability and structural failure. It would endanger building and neighborhood use. The planning of building structures involves tax calculations, dimensions to structural beams. The burden that works on top of the building includes the dead weight of the structural element itself, while the burden of living is that of human activity, and the burden of an earthquake caused by an earthquake.

This proves that the design of today's home stores in Indonesia is inadequate in terms of both the environment and the unit, especially in terms of the social needs of the residents. Hence the writer collected data obtained in the field to create the same dimensions standard in columns, beams and slab on each floor. So in this study the authors take titles "**Standardization Analysis Detailing The Structure Of Home Store In Manado City**".

The structure of home store is also crucial to avoiding the collapse of a building because of an earthquake can harm many. Misdesigning and analyzing loads is one of the main causes of structural failure. Considering this, before undertaking the design and analysis of the structure, a clear picture of the behavior and the amount of weight that work on its structure and characteristics is necessary.

1.2. Root Problem

Based on the above background, the problem in this study is :

1. How strong is the structure in a home store in Manado?
2. What's the standardization of a home store in the city of Manado?

1.3. Purpose Of Research

Based on the root problem above, this research is aimed at :

1. Analyzing the structural strength of home store in the city of Manado.
2. Standardization of column, beams and slab on home store construction in Manado city.

1.4. Benefits of research

The benefits of this research are :

1. For more insight into planning column structure, minimalist beams and floor plates, cost-effective yet safe and becoming the standard for home store in the city of Manado.
2. Could also be a standard reference as well as a code for Manado city communities in the making of home store buildings.
3. Into literature for students who want to research more on the construction of home store buildings.

1.5. Trouble threshold

Based on the problem formula and the aim of thesis research, trouble threshold are as follows:

1. The study was done solely on the home store project in Manado city.
2. Dimensional planning and structural calculations are only done in column structures, beams and floor slab.
3. Research is done using Etabs software.
4. Modeling design is made using Autocad 2014.

1.6. Writing systemic

CHAPTER I INTRODUCTION

This chapter contains the background, root problem, purpose of research, benefits of research and writing systematic.

CHAPTER II LIBRARY REVIEW

This chapter describes the basis for theory and research data that are based on research done by previous researchers, both of which are derived from thesis, articles and books published.

CHAPTER III RESEARCH METHODOLOGY

The chapter contains the methods used by researchers to analyze the data needed for the completion of the study.

CHAPTER IV RESULTS AND DISCUSSION

This chapter contains the results of analysis and calculations that researchers have formulated in calculating the structural structure of buildings.

CHAPTER V CONCLUSIONS

This chapter contains conclusions and suggestions from the results of the analysis and discussion.

REFERENCES

The bibliography contains a list of references used in this paper.