

## TABLE OF CONTENTS

<b>TITLE.....</b>	<b>i</b>
<b>APPROVAL OF THE SUPERVISOR .....</b>	<b>ii</b>
<b>APPROVAL OF THE ADVISORY TEAM.....</b>	<b>iii</b>
<b>COLLABORATION STATEMENT .....</b>	<b>iv</b>
<b>PERNYATAAN BEBAS PLAGIASI .....</b>	<b>v</b>
<b>ACKNOWLEDGEMENT .....</b>	<b>vi</b>
<b>ABSTRACT.....</b>	<b>vii</b>
<b>INTISARI.....</b>	<b>viii</b>
<b>TABLE OF CONTENTS .....</b>	<b>ix</b>
<b>LIST OF TABLES.....</b>	<b>xi</b>
<b>LIST OF FIGURES .....</b>	<b>xii</b>
<b>ABBREVIATION .....</b>	<b>xiii</b>
 <b>CHAPTER 1 INTRODUCTION .....</b>	 <b>1</b>
1.1. Research Background.....	1
1.2. Research Question .....	7
1.3. Research Objectives.....	7
1.4. Scope of Research .....	7
1.5. Research Benefits .....	8
1.6. Research Originality.....	9
1.7. Systematic of Writing .....	10
 <b>CHAPTER 2 LITERATURE REVIEW .....</b>	 <b>12</b>
2.1. Post-Occupancy Evaluation .....	12
2.1.1. The Benefits of Post-Occupancy Evaluation .....	13
2.1.2. POE Element.....	14
2.2. Housing is a Growing Object .....	17
2.2.1. Housing .....	17
2.2.2. Procurement and Construction of Low-Cost Housing .....	19
2.2.3. Proper and Healthy Low-Cost Housing .....	20
2.2.4. Standard of Low-Cost Healthy Housing .....	21
2.2.5. Residential Environment .....	21
2.3. The Concept of Sustainable Housing .....	23
2.3.1. Sustainable Housing in Post-Occupancy .....	26
2.4. Direction of Study .....	28
 <b>CHAPTER 3 RESEARCH METHOD .....</b>	 <b>32</b>
3.1. Research Approach .....	32
3.2. Scope of Research .....	32
3.2.1. Substantial Scope .....	32
3.2.2. Spatial Scope .....	33
3.3. Variables and Indicators.....	34
3.4. Sampling Technique .....	38

3.5.	Data Collection .....	39
3.5.1.	Primary Data Collection Techniques .....	40
3.5.2.	Secondary Data Collection Techniques .....	40
3.6.	Data Analysis Method .....	45
3.6.1.	Post-Occupancy Evaluation Performance of Low-Cost Housing....	45
3.6.2.	Ranking of Importance Factors on Housing Sustainability .....	49
3.6.3.	Gap of Performance and Importance of Low-Cost Housing .....	51
<b>CHAPTER 4</b>	<b>DESCRIPTION OF STUDY AREA.....</b>	<b>53</b>
4.1.	Housing Policy in Salatiga City .....	53
4.2.	Profile of Study Area .....	55
4.2.1.	Prajamukti Housing Condition .....	55
4.2.2.	Prajamulya Housing Condition .....	60
<b>CHAPTER 5</b>	<b>RESULT AND DISCUSSION .....</b>	<b>65</b>
5.1.	Result and Analysis .....	65
5.1.1.	Environmental Characteristic Evaluation.....	65
5.1.2.	Social Characteristic Evaluation .....	75
5.1.3.	Economic Characteristic Evaluation .....	88
5.1.4.	Ranking Factors on Housing Sustainability Based on AHP .....	95
5.2.	Influencing Factors on the Housing Sustainability Performances .....	96
5.2.1.	Influencing Factors on Environmental Aspect .....	96
5.2.2.	Influencing Factors on Social Aspect.....	100
5.2.3.	Influencing Factors on Economic Aspect .....	103
5.3.	Importance Level of Factor on the Housing Sustainability .....	105
5.4.	Gap of Performance and Importance Level on Housing Sustainability ....	107
5.5.	Research Findings .....	109
<b>CHAPTER 6</b>	<b>CONCLUSION.....</b>	<b>114</b>
6.1.	Conclusion.....	114
6.2.	Recommendation.....	115
6.3.	Limitation .....	117
<b>REFERENCES</b> .....		<b>118</b>
<b>APPENDIXES</b> .....		<b>124</b>
Appendix-1:	Questionnaire for Housing Residentials .....	125
Appendix-2:	Questionnaire for AHP.....	130
Appendix-3:	Field Observation Form of Prajamukti Housing Estate.....	132
Appendix-4:	Field Observation Form of Prajamulya Housing Estate .....	139
Appendix-5:	Questionnaire Result .....	145

## LIST OF TABLES

Table 2.1. Variables of POE .....	29
Table 2.2. Variables of Housing Sustainability Accustomed with POE .....	30
Table 3.1. Variables and Indicators of Sustainability Assessment from Post-Occupancy Evaluation of Low-Cost Housing .....	34
Table 3.2. Primary Data Collection .....	42
Table 3.3. Secondary Data Collection .....	45
Table 3.4. Scoring Method to Analyze Performance Result .....	46
Table 3.5. Pair-Wise Comparison Value Based on Saaty Scale .....	50
Table 3.6. Profile of Selected Experts .....	51
Table 4.1. Profile Character of Occupants as Respondent in Prajamukti .....	58
Table 4.2. Profile Character of Occupants as Respondent in Prajamulya.....	62
Table 5.1. Results and Scoring of Housing Building Units Assessment.....	66
Table 5.2. Results and Scoring of Infrastructure Network Assessment.....	69
Table 5.3. Results and Scoring of Utilities Assessment.....	72
Table 5.4. Results and Scoring of Neighborhood Facilities Assessment .....	74
Table 5.5. Results and Scoring of Safety Comfortability Assessment .....	76
Table 5.6. Results and Scoring of Community Participation Assessment.....	79
Table 5.7. Results and Scoring of Accessibilities to Urban Public Services Assessment .....	81
Table 5.8. Results and Scoring of Access to Workplace Assessment.....	90
Table 5.9. Results and Scoring of Maintenance Cost Assessment.....	92
Table 5.10. Results and Scoring of Housing Tenure Assessment.....	93

## LIST OF FIGURES

Figure 1.1. The Change of Visual Buildings in Prajamukti and Prajamulya .....	3
Figure 1.2. The Location of the Research Scope .....	8
Figure 3.1. The Location of Low-Cost Housing Provision in Salatiga City .....	32
Figure 3.2. The Quadrant of Gap Performance-Importance.....	52
Figure 3.3. Framework Analysis .....	52
Figure 4.1. History Stage of Prajamukti Housing Estate Construction.....	56
Figure 4.2. Housing Occupancy Rate of Prajamukti Housing Estate.....	56
Figure 4.3. Siteplan of Prajamukti Housing Estate.....	57
Figure 4.4. Existing Condition of Neighborhood Facilities and Infrastructure in Prajamukti.....	60
Figure 4.5. History Stage of Prajamulya Housing Estate Construction .....	61
Figure 4.6. Siteplan of Prajamulya Housing Estate .....	61
Figure 4.7. Housing Occupancy Rate of Prajamulya Housing Estate .....	62
Figure 4.8. Existing Condition of Neighborhood Facilities and Infrastructure in Prajamulya .....	64
Figure 5.1. Physical Building Unit Changes in Prajamukti and Prajamulya.....	67
Figure 5.2. Housing Location Based on Network Analysis of Elementary School Coverage Area .....	82
Figure 5.3. Housing Location Based on Network Analysis of Junior High School Coverage Area .....	83
Figure 5.4. Housing Location Based on Network Analysis of Senior High School Coverage Area .....	84
Figure 5.5. Housing Location Based on Network Analysis of Integrated Health Post Coverage Area.....	85
Figure 5.6. Housing Location Based on Network Analysis of Public Health and Clinic Coverage Area.....	87
Figure 5.7. Housing Location Based on Network Analysis of Commercial and Trade Services Coverage Area .....	88
Figure 5.8. Percentage of Housing Used as Home-Based Enterprise by Residents....	94
Figure 5.9. Ranking Result of Factors on Housing Sustainability Based on AHP.....	96
Figure 5.10. Performance Factor of Environmental Aspect on Low-Cost Housing Sustainability.....	96
Figure 5.11. Performance Factor of Social Aspect on Low-Cost Housing Sustainability.....	101
Figure 5.12. Performance Factor of Economic Aspect on Low-Cost Housing Sustainability.....	104
Figure 5.13. Level of Importance Factor on Low-Cost Housing Sustainability.....	106
Figure 5.14. Quadrant of Gap Performance and Importance on Low-Cost Housing Sustainability in Salatiga City .....	108