Investigation of the Effects of Applying Social Sustainability Components on Residential Satisfaction

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http://dx.doi.org/10.5755/j01.sace.29.2.29217

Today, decades after the emergence of the concept of sustainable development, the long-term positive effects of achieving sustainable development goals in all environmental, economic, and social dimensions on the quality of human life are undeniable. The purpose of this research is to explain the mechanism of effects of applying the social sustainability components on the level of residential satisfaction in the scale of residential complexes. The research uses a mixed (quantitative and qualitative) methodology in terms of the nature of the data and the research method is descriptive-analytical (causal and comparative). The conceptual model of the research, which includes the relationships between the variables of perceived quality of social sustainability components, residential desires associated with these components, perceived quality of housing architecture, and residential satisfaction, has been proposed based on the study of theoretical foundations through logical reasoning method. This model has been tested through obtained data from a questionnaire in a field study conducted in the Baghe Behesht residential complex in the Saadatabad neighborhood of Tehran. According to the results, the application of the components of social sustainability has a significant effect on residential satisfaction by improving the quality of housing architecture, and in conditions of qualitative deficiency in social sustainability components, residential desires associated with these components will reduce the perceived quality and the level of residential satisfaction.

Keywords: social sustainability, residential satisfaction, residential desires, perceived quality, residential complex.

Nowadays, moving towards achieving sustainable development goals in various fields, including architecture and urban planning, is known as a necessity than a choice. The application of the components of sustainable design in architecture is the main solution to achieve the goals of sustainable development in this field. In this regard, most of the conducted researches have focused on the environmental and economic dimensions of sustainability. The goals related to these two dimensions of this concept will be mainly achieved by conserving resources and energy and moving towards the use of renewable energies in the long term. In addition to finding a comprehensive solution for environmental and economic considerations, the main challenge of sustainable architecture is achieving an appropriate level of quality of life and preserving cultural and social values along with providing environmental comfort (Kim, 1998). The second part of this challenge...
which is related to residential buildings is more important, and also is presented as a subset of social sustainability issues.

Social sustainability is based on the general view of the status of social justice for the present and future generations and adherence to its principles can affect activities related to the construction of residential environments. Although the issue of energy and resource consumption in residential buildings, especially in developing countries, is important and this is related to environmental and economic goals of sustainability, but providing comfort and tranquility in residential environments is a vital point. It should be noted that achieving the desired goals should be in the short term or at the very beginning of the work cycle of residential buildings. In fact, this refers to the well-known definition of sustainable development, which was presented in the Brundtland Report as follows: development that meets the needs of the present without compromising the ability of future generations to meet their own needs (WCED, 1987). Therefore, improving the quality of life through environmental design is an issue that has been addressed as the concept of residential satisfaction.

The concept of satisfaction refers to a wide range of desires to meet the basic or transcendent needs of human beings (Rafieian, Aminsalehi, & Taghvaei, 2011) which are necessary to ensure human comfort and tranquility in residential environments. Numerous factors including cultural, economic, household livelihoods, climatic conditions, and construction technologies affect the formation of housing and urban fabrics and housing has mutually a significant effect on the lifestyle and cultural pattern of residence. Therefore, housing is considered beyond a basic need for human beings. In this regard, residential satisfaction is a concept based on the perception of space and depends on the quality of responding to a set of residential needs that are rooted in culture, lifestyle, geography and climate. In definition, residential satisfaction is the result of peoples’ understanding of the differences between their preferences and aspirations and standards and the actual housing conditions (Campbell, Converse, & Rodgers, 1976). In other words, residential satisfaction is the result of the comparison between residential conditions and residential desires that several factors, including cultural, economic conditions and social status of residents play a role in this analogy.

The environmental and economic effects of applying sustainability components in architecture are more tangible on large scales that may not affect the quality of human life directly. Therefore, the present research has investigated the effects of the architectural application of social sustainability components on the level of residential satisfaction at the residential complexes scale. This research was carried out aimed to explain the mechanism of the relationship between the quality of social sustainability components in architecture and the level of residential satisfaction. In this regard, the following questions are raised:

Which components of social sustainability in architecture play a key role in improving the level of residential satisfaction?

How is the mechanism of the effect of social sustainability components on the quality of housing architecture and residential satisfaction?

This research uses a mixed (quantitative and qualitative) methodology in terms of the nature of the data and the research method is descriptive-analytical (causal and comparative). Theoretical foundations and literature have been reviewed to identify the components and indicators of social sustainability in architecture, and residential satisfaction in the scale of the architectural quality of residential complexes. To extract the indicators related to the mentioned variables, the content analysis method has been used. In this regard, the content unit is sentences and words that were related to the variables. Categories and subcategories have been extracted from the existing literature and then have been classified. The conceptual model of the research and relationships between the variables have been determined using the logical reasoning method. The conceptual model should be tested in an experimental study, so the Baghe Behesht residential complex in the
Saadatabad neighborhood of Tehran city has been considered as a case study. The data related to the variables have been obtained through a questionnaire and the method of path analysis was used to verify the conceptual model. To answer the first research question, regression analysis on the collected data has been used to determine the key components of social sustainability in improving the level of residential satisfaction. In this analysis, the level of residential satisfaction has been considered as a dependent variable on the application of the components of social sustainability. Concerning the second question, the conceptual model of the research has been evaluated through the Amos-Version 24 software.

**The concept of residential satisfaction**

Studies on residential satisfaction can be divided into three categories based on the general view, objectives, and scope of research. According to the **general view**, a group of researchers investigated residential satisfaction as a criterion for determining the quality of the living environment (Marans & Rodgers, 1975; Galster & Hesser, 1981; Cutter, 1982). The other researchers consider this concept as a predictor of the residents’ behavior regarding residential mobility, improving housing status, or adaptation to the current situation (Separe, 1974; Premius, 1986). According to the **objectives**, researches on residential satisfaction are divided into three categories. Some researchers have sought to determine the relationships between factors affecting residential satisfaction (Garcia, 1994; Amerigo & Aragones, 1997; Varady, Preiser, & Wolfgang, 1998; Parkes, Kearns, & Atkinson, 2002; Choudhury, 2005; Fallahi, Hariza, Husniyah, & Abdul Rahim, 2015). Some other researchers have focused on predicting residential satisfaction in residential environments (Theodori, 2001; Ogu, 2002). Moreover, the third group of researchers has investigated settlements based on factors affecting residential satisfaction (Lu, 1999; Russell & James, 2008; Azimi & Esmailzadeh, 2017; Azizibabani & Bemanian, 2019). According to the **scope**, researches on residential satisfaction are divided into three categories. A group of researchers has investigated residential satisfaction at the scale of urban apartments to residential complexes (Zabihi, Habib, & Rahbarimanesh, 2011; Abbaszadeh, Gohari, & Askari Rabori, 2017). Another group has examined this concept at the neighborhood or urban scale (Dekker, de Vos, Musterd, & van Kempen, 2011; Azemati, Pourbagher, & Rostami, 2017). Moreover, another group has examined this concept on the scale of urban geography (Theodori, 2001).

The concept of residential satisfaction contains a wide range of studies, but most of them were empirical and haven’t led to a theoretical model or theory. Therefore, Basic theoretical studies on the concept of residential satisfaction are listed in Table 1.

**The concept of social sustainability**

The emergence of the concept of social sustainability coincided with the presentation of the Brundtland report on various dimensions of sustainable development in 1987. In the beginning, the environmental dimension of sustainable development was more important compared to other dimensions, but over time the importance of all environmental, economic, and social dimensions was equal in development-related activities (Colantonio & Lane, 2007). The social dimension of sustainable development provides the context for strengthening social solidarity, increasing the level of social interactions, and creating equality for access to public facilities such as health, education, transportation, housing, etc (McKenzie, 2004). According to Qanbari and Farhadi (2017), the foundations of sustainable social development are equality (creating equal opportunities for all members of society), diversity (possibility of racial and cultural diversity), solidarity, quality of life (meeting basic needs and hierarchical needs), and democratic government. Thin et al. (2002), introduce social justice, social solidarity, participation, and security as four criteria of sustainable social development. Murphy (2012) concluded that the four main pillars of social sustainability are justice, participation, awareness for sustainability and social solidarity. Weingaertner and Moberg
Table 1: Basic theoretical research on the concept of residential satisfaction

<table>
<thead>
<tr>
<th>Title</th>
<th>Researcher</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociological Theory of Home Adjustment</td>
<td>(Reimer, 1943)</td>
<td>According to this theory, the variables that determine human residential needs change under the influence of two factors of time and type of household.</td>
</tr>
<tr>
<td>Residential Mobility</td>
<td>(Rossi, 1955)</td>
<td>According to this theory, residential mobility is defined as a natural part of every family life cycle. Therefore, people change their place of residence to meet their residential needs that are affected by time. Some of the most important factors affecting the change of residential needs and desires that have been discussed in the context of this theory are the number of family members, aging, and changing social status of the family. After the emergence of this theory, the concept of residential mobility was more investigated in the researches.</td>
</tr>
<tr>
<td>Migration as an Adjustment to Environmental Stress</td>
<td>(Wolpert, 1966)</td>
<td>Wolpert believed that the hypotheses about economic, climatic, aesthetic, etc. factors regarding residential mobility are all minor factors and none of them can be considered as a determining criterion in the residential mobility behavior of residents. He believed that environmental stress is a determining factor in residents’ behavior regarding residential mobility in an urban environment, and some of the sub-factors of stress include heavy traffic, noise, light, air and water pollution, and lack of outdoor space. He developed an environmental model which showed the impact of these variables on the migration decision of residents.</td>
</tr>
<tr>
<td>A Theory of Family Housing Adjustment</td>
<td>(Morris &amp; Winter, 1975)</td>
<td>Morris and Winter provide a conceptual and theoretical framework for studying the behavior of households in adapting to a residential environment. According to their theory, each family evaluates its housing according to cultural and family norms and seeks to meet the normative housing deficits. Residential mobility, relocation based on household needs, or adjustment of the family desires and needs based on current housing status are some of the measures that can be taken in this regard which may be done when restrictions prevail over behavioral patterns.</td>
</tr>
<tr>
<td>A Theory of The Purposes of Human Life</td>
<td>(Marans &amp; Rodgers, 1975)</td>
<td>Marans &amp; Rodgers have presented a conceptual framework based on Maslow’s (1958) theory of the level of human needs to determine the quality of urban life in three spatial scales, which includes objective and subjective data. These three spatial scales include community (country-city), neighborhood, and private home. According to this theory, people’s assessment of their satisfaction in the three mentioned scales depends on their personal characteristics and residential satisfaction in every scale affects the others.</td>
</tr>
</tbody>
</table>

Fig. 1. A broad model framework for investigating subjective assessment of determinants of satisfaction with the residential environment.

Source: (Marans & Rodgers, 1975)
Residential Satisfaction Theory

(Glaster, 1985)

As the cognitive psychology trend grew, Glaster developed a theory of residential satisfaction based on psychology. Glaster describes the psychological structure of the concept of residential satisfaction as follows: Each person’s cognitive structure acts as a source of coping with life situations and leads to adaptation or incompatibility with living conditions. In this process, each person’s mental schemas play a vital role as a benchmark. Regarding housing, if people’s perceptions of housing conditions meet or exceed their mental standards, residential satisfaction would be high. Otherwise, people will resort to adaptive processes such as redefining their desires and needs and changing their assessment of the current housing conditions or will not be able to tolerate the current housing conditions and will make broad changes in housing or move to another place.

Glaster believes that the aspects of the living environment that have the greatest impact on the level of residential satisfaction do not necessarily determine the priority of residents in the improvement of the living environment. Therefore, he introduces a new social index to assess the residential preferences of individuals under the title of “marginal residential improvement priority”. According to the psychological structure of this index, people consciously or unconsciously prioritize different aspects of the residential environment based on their preferences. According to the results of Glaster’s field study, regardless of the dissatisfaction in which aspect of the living environment, people give the priority to improving the quality of the housing unit to improve the level of residential satisfaction.

Theoretical model of Amerigo & Aragones

(Amerigo & Aragones, 1997)

The approach of Amerigo and Aragones in the study of residential satisfaction is to provide a conceptual framework for studying the relationship between personal characteristics and the residential environment in providing residential satisfaction. Their approach goes beyond providing a conceptual model of satisfaction, examines the interaction between the personal characteristics and the residential environment, and analyzes various cognitive, emotional, and behavioral interactions in the context of this relationship. According to this model, the objective attributes of the residential environment, when evaluated by the person, become subjective and bring a degree of satisfaction. Thus, mental characteristics are influenced by the personal characteristics of individuals.

![A systemic model of residential satisfaction](Image)

Source: (Amerigo & Aragones, 1997)

Theoretical model of McCrea

(McCrea, 2007)

McCrea sought to find the relations between the objective dimensions of the urban environment and the mental evaluations based on them, as well as the effects of psychological processes and residential mobility on these relations. His findings indicate a weak correlation between the objective dimensions of the environment and the subjective assessments based on it. This indirect relation arises from the effect of people’s comparative standards on their mental perception of the objective aspects of the environment.
(2011) recognized accessibility (job, open space, neighborhood services), social capital, health, social cohesion, local participation, and a sense of place as indicators of social sustainability. The theoretical foundations of social sustainability show that any actions that might change basic social relations are not acceptable in the process of development. The purposes of any kind of development should more focus on improving the quality of humans’ life and meeting their needs. Therefore, the general strategy regarding the issue of social sustainability is social development based on responding to welfare, cultural and psychological needs, the need for adaptability, and the need for growth and prosperity (Nazarpour, 2000). The components of social sustainability can be summarized into four groups: social justice, security, participation, and standard (quality) of living. The indicators of these components, which are related to the design of the environment, are shown in Table 2. A part of the questionnaire which was distributed among participants (Residents of the Baghe Behesht complex) was based on measuring the perceived quality of these indicators in the living space, and the other part measures their willingness to apply these indicators.

Table 2

<table>
<thead>
<tr>
<th>Components and indicators</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social justice</td>
<td></td>
</tr>
<tr>
<td>Access to the facilities</td>
<td>1</td>
</tr>
<tr>
<td>The similarity of units in having good light and view</td>
<td>2</td>
</tr>
<tr>
<td>Proper access to municipal services</td>
<td>3</td>
</tr>
<tr>
<td>Security</td>
<td></td>
</tr>
<tr>
<td>Physical security in the interior spaces</td>
<td>4</td>
</tr>
<tr>
<td>Feeling of Psychological security in the interior spaces</td>
<td>5</td>
</tr>
<tr>
<td>Physical security in the open spaces of the residential complex</td>
<td>6</td>
</tr>
<tr>
<td>Feeling of Psychological security in the open spaces of the residential complex</td>
<td>7</td>
</tr>
<tr>
<td>Participation</td>
<td></td>
</tr>
<tr>
<td>A sense of belonging to the complex</td>
<td>8</td>
</tr>
<tr>
<td>Opportunity to establish social interactions with neighbors</td>
<td>9</td>
</tr>
<tr>
<td>Standard of living</td>
<td></td>
</tr>
<tr>
<td>Quality of environmental comfort inside residential units</td>
<td>10</td>
</tr>
<tr>
<td>Quality of environmental comfort in open and semi-open spaces of the complex</td>
<td>11</td>
</tr>
<tr>
<td>Quality of housing response to residential needs</td>
<td>12</td>
</tr>
</tbody>
</table>

Derived from: (Qanbari & Farhadi, 2017; Murphy, 2012; Weingaertner & Moberg, 2011; Thin, Lockhart, & Yaron, 2002)

The effects of the Components of Social Sustainability on Residential Satisfaction

Regarding the relationship between social sustainability and residential satisfaction, Karuppannan & Sivam (2011) examined the impact of urban form on social sustainability and residents’ satisfaction at the neighborhood level. The results of this study demonstrated that the provision of high quality and well-located open space at the precinct level, mixed land use and good accessibility to the public realm and social infrastructure play an important role in increasing social sustainability and residents’ satisfaction. Howley et al. (2009) believe that it is not only high density per se that is the source of dissatisfaction for residents but rather other related factors such as environmental quality, noise, lack of community involvement, traffic and lack of services and facilities. Ríos & Moreno-Jíménez (2012) focused on the concepts of place identity, social identity, residential satisfaction and community participation among immigrant and native populations. They found that greater place identity was seen to be linked with greater community participation and residential satisfaction. Ibrahim (2020) assessed the level of satisfaction with public housing offered by the UAE government to its citizens. The survey results show that the majority of residents are mostly satisfied, although the overall level of satisfaction with the functionality of the building and public facilities provided was generally higher than that related to the social environment in the residential district.
According to the results obtained from the study of basic theories on the concept of residential satisfaction, the scale of the investigation of this concept is important in determining the variables and indicators involved. In the case of measuring residential satisfaction on the scale of residential complexes, three main variables play a role in determining residential satisfaction as follows:

The quality of housing architecture, which includes formal, functional, and semantic dimensions. Quality of social sustainability components and finally, residential desires associated with social sustainability. Another point about the qualities of variables is the necessity to measure the perceived qualities, which is possible to measure their impacts on residential satisfaction. The variables of residential desires associated with social sustainability and perceived quality of social sustainability were measured in the four titles of social justice, participation, security, and standard of living by the 12 indicators mentioned in Table 1. The measurement of the perceived quality of housing architecture has also been done in three material, psychological and semantic dimensions as described in Table 3.

<table>
<thead>
<tr>
<th>Qualitative aspects of housing architecture</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using symbols and signs formed based on culture and beliefs</td>
<td>1</td>
</tr>
<tr>
<td>Transfer of concepts through using semantic components such as light, water, etc.</td>
<td>2</td>
</tr>
<tr>
<td>Application of various geometries in the plan to transmit meanings of shapes</td>
<td>3</td>
</tr>
<tr>
<td>Using various colors and textures to transmit their related meanings</td>
<td>4</td>
</tr>
<tr>
<td>Providing physical security and environmental comfort</td>
<td>5</td>
</tr>
<tr>
<td>Compatibility of dimensions of spaces with considered functions</td>
<td>6</td>
</tr>
<tr>
<td>Quality of functional relationships between spaces</td>
<td>7</td>
</tr>
<tr>
<td>Preserving static and visual balance in architectural forms</td>
<td>8</td>
</tr>
<tr>
<td>The aesthetic quality of the design</td>
<td>9</td>
</tr>
<tr>
<td>Compatibility of architectural forms with the surrounding urban fabric</td>
<td>10</td>
</tr>
</tbody>
</table>

Table 3: Indicators of different aspects of the quality of housing architecture

Determinant indicators of residential satisfaction are defined based on meeting the residential needs of the target community according to Table 4. The validity of the questionnaire was confirmed by interviewing a group of experts, and the indicators for measuring the variables were developed on this basis.

<table>
<thead>
<tr>
<th>Residential satisfaction indicators based on meeting residential needs</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responding to physical functions</td>
<td>1</td>
</tr>
<tr>
<td>Providing physical security</td>
<td>2</td>
</tr>
<tr>
<td>Providing necessary daylight for spaces</td>
<td>3</td>
</tr>
<tr>
<td>Providing climatic comfort</td>
<td>4</td>
</tr>
<tr>
<td>Preservation of individual and family boundaries</td>
<td>5</td>
</tr>
<tr>
<td>Providing a context for understanding sensory beauty</td>
<td>6</td>
</tr>
<tr>
<td>Inducing a sense of peace and Psychological security</td>
<td>7</td>
</tr>
<tr>
<td>Providing a context to promote social interactions</td>
<td>8</td>
</tr>
<tr>
<td>Providing a context for individual and family privacy</td>
<td>9</td>
</tr>
<tr>
<td>Providing a context for understanding the concepts of natural phenomena</td>
<td>10</td>
</tr>
<tr>
<td>Providing a context to understand the spiritual beauty and flourishing of cultural values</td>
<td>11</td>
</tr>
</tbody>
</table>

Table 4: Indicators of residential satisfaction based on meeting residential needs

Derived from: (Bemanian & Zandi, 2018; Altman, 1975; Naghizadeh, 2012; Raeisi, 2019; Pirnia, 1997)
The theoretical framework of the research is explained based on the relationship of variables so that the residential desires of residents regarding the application of the components of social sustainability in architecture form the basis of initial expectations and are considered as an independent variable in this study. Although personal and cultural factors affect these residential desires but examining how they are affected is not within the scope of this study. Perceived quality of applying indicators of social sustainability has been considered as a dependent of mentioned residential desires. In this regard, it is hypothesized that the perceived quality of a component will decrease due to the increase in its related residential desire, and the reason for such a hypothesis is the increase in the level of initial expectations about that component. In addition, the variable of perceived quality of housing architecture is affected by the perceived quality of social sustainability components and all three variables will affect residential satisfaction. The conceptual model of these relations is depicted in Fig. 3.

To verify the conceptual model and answer the research questions, the mentioned relations between the variables should be tested in a real context. In this regard, Baghe Behesht residential complex located in Saadatabad neighborhood of Tehran has been selected due to having a desirable level of indicators related to the variables of the conceptual model. The level of occupancy in the complex is such that the dominance of open spaces over masses is evident, and the landscape design of this complex has led to improving the quality of social interaction spaces between residents.

The forest park on the south side of the complex, which is exclusively available to residents, is considered as a context for social interactions between them. The hierarchy of public, semi-public, and semi-private spaces in the level of the complex is customary observed, and the proper separation of pedestrian paths from vehicle paths has made it possible to form the context of interactions of different social groups from residents of a block to residents of a
neighborhood unit and residents of the whole complex. The physical control of the interior spaces of the complex and the inclusion of active and passive surveillance in the open spaces has led to an increase in the quality of indicators of physical security. Also, the design of the site and locating of the masses have been done based on the climatic characteristics of Tehran, which leads to the provision of comfortable conditions to an acceptable level at the participatory spaces. A questionnaire with the participation of 251 residents was used to measure the variables related to the conceptual model and explain the relationship between them. Data were collected and analyzed between January to April 2021. The questionnaire which was designed based on a 5-point Likert scale, consists of 45 questions in four sections that directly measure the indicators presented in Tables 2, 3, and 4. Regarding the 12 indicators of Table 2, in addition to the perceived quality, residential desires have also been measured. In addition to these 45 questions, demographic data including age, gender, marital status, ownership status, and length of residence in the complex were also collected. However, the study of the effects of demographic variables on conceptual model variables has not been in the scope of this research and no strong statistical relationship was found in this regard. The average percentage of each of the indicators related to the research variables is shown in the Fig. 5.

Regarding the first research question, the results of regression analysis of the relationship between different components of the perceived quality of social sustainability with the residential satisfaction show that the role of the component of the standard of living in predicting changes of residential satisfaction variable was more than other components. In this model, R Square = 0.468.

Regarding the second question of the research, according to the results of the conceptual model test based on quantitative data, residential desires related to social sustainability components have had a reverse effect on the perceived quality of these components and residential satisfaction. There is also a direct relationship between the perceived quality of social sustainability components and
the perceived quality of housing architecture and residential satisfaction. Amos-Version 24 was used to determine the degree of these relations, which the results are shown in Fig. 6.

### Table 5
Regression model of the relationship between perceived quality of the components of social sustainability and residential satisfaction

<table>
<thead>
<tr>
<th>Model</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>t</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Constant)</td>
<td>.136</td>
<td>.031</td>
<td>4.336</td>
<td>.000</td>
</tr>
<tr>
<td>Perceived quality of the justice component</td>
<td>.147</td>
<td>.033</td>
<td>4.374</td>
<td>.000</td>
</tr>
<tr>
<td>Perceived quality of the security component</td>
<td>.201</td>
<td>.042</td>
<td>4.766</td>
<td>.000</td>
</tr>
<tr>
<td>Perceived quality of the participation component</td>
<td>.081</td>
<td>.040</td>
<td>2.029</td>
<td>.044</td>
</tr>
<tr>
<td>Perceived quality of the standard of living component</td>
<td>.360</td>
<td>.057</td>
<td>6.375</td>
<td>.000</td>
</tr>
</tbody>
</table>

a. Dependent Variable: Residential satisfaction

According to the results of the analysis of the data obtained from the field study, the variable of residential satisfaction in the scale of the architectural quality of residential complexes is a function of the variables of perceived quality of housing architecture, perceived quality of application of the components of social sustainability and residential desires associated with these components. Beta coefficients in the model show that the variables of residential desires associated with the components of sustainability and perceived quality of housing architecture had a direct impact on residential satisfaction, but the perceived quality of sustainability components didn’t have a significant impact on residential satisfaction and this variable has a significant effect on the residential satisfaction through the variable of housing architecture quality. As residential desires associated with the components of social sustainability increase, the perceived quality of these components and residential satisfaction will decrease equally due to the level of expectations increases. It can
be interpreted that in proportion to the increase in the human desire for a particular aspect of the quality of a product, its shortcomings attract more human attention and lead to dissatisfaction with the performance of the product. Therefore, the quality deficiency in these components should be noted in interpreting the inverse relationship between the variables involved in the research model. In other words, in situations where the quality of the sustainability components is somewhat high, there will be no relationship between perceived quality, desires, and residential satisfaction, or this relationship will not necessarily be reversed.

In addition, it is concluded that the perceived quality of the component of living standards, which is generally related to the housing response to human residential needs, has the greatest impact on improving the quality of housing and the level of residential satisfaction. Subsequently, residential satisfaction resulting from the application of the components of social sustainability in architecture has been due to the improvement of living standards by improving the quality of housing architecture. This result is consistent with Glaster’s theory about the importance of housing architecture quality in improving residential satisfaction. Future researches based on the conceptual model of this research help refine it and in this regard, it is suggested that different case studies be investigated with different qualities of the components of social sustainability. It is also recommended that future studies focus on the impact of personal and cultural factors on research variables.

References


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