

CHAPTER VI

DESIGN CONCEPT APPROACHES

6.1 General Concept Approaches

The design approach at this start-up centre will focus on the needs of its users. Emphasis on user needs is intended to find out what kind of concept fits the user's needs. Managers and investors tend to need private space, while start-ups need more open space so that workers can meet and do networking. Then to help workers reduce fatigue, self-healing atmosphere is needed. This self-healing atmosphere is presented by bringing nature into the building or commonly known as Biophilic Design, while open and closed spaces are presented with the concept of open space / private.

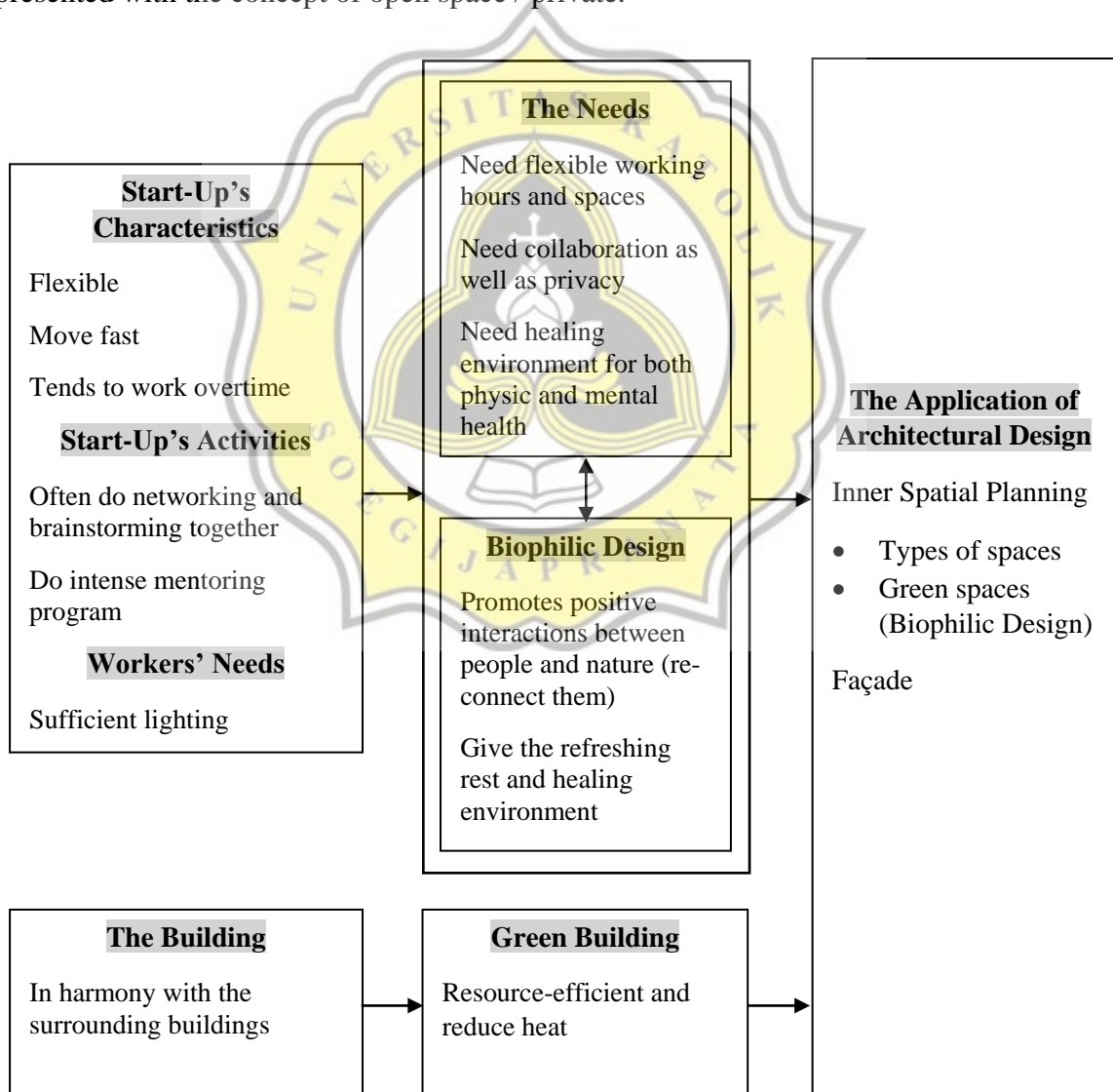


Figure 6. 1 Elaboration of User's Needs, Building, and Theories

Based on the elaboration between users, buildings, and theories, the conclusions obtained are as follows:

- a. Different kinds of activities and needs can be supported by different space types:
 - i. Need flexible working hours and spaces → Facilitate start-ups with recreational spaces such as play areas, library, napping areas, fitness centre, and outdoor park. Many kinds of space function to meet the differences in productive hours and activities of 4 different type of chronotypes, including those who have to rest during the day, exercise, or need a new atmosphere, so they don't get bored.
 - ii. Need collaboration as well as privacy → Divide the spaces into private, semi-private, semi-public and public as well as promotes collaboration/distraction free.
- b. Sued to move fast and tends to work overtime, workers need an atmosphere that can calm the mind and reduce fatigue. The Biophilic Design is brought to provide psychological experience related to the healing environment.
- c. Considering that other buildings are certified green buildings, the Start-Up Centre's facade will follow the GBCI requirements to align with the surrounding buildings and regional policy.

6.2 Problem Approaches

6.2.1 Inner Spatial Planning

a. Types of Spaces

| The Concept | The Explanation | |
|-------------------------------------|--|---|
| Balancing collaboration and privacy | Incubation & Rental Office – Promote Collaboration | |
| | Open Space Office | Designed for brainstorming and to help everyone engage together |
| | Play Area | |
| | Pantry | |
| | Incubation & Rental Office – Distraction Free Area | |
| | Private Workspace | Manager's room |
| | Meeting Room | Designed for the employees that need to focus once in time |
| | Common Spaces – Promote Collaboration | |
| | Waiting Area | Designed for casual meeting with the guests |

| | | |
|--|--|---|
| | Canteen | Designed for casual meeting, networking, and brainstorming to help everyone engage together |
| | Common Spaces – Distraction Free Area | |
| | Meeting Room | Distraction-free area for the employees that need to focus once in time |
| | Recreational Spaces – Promote Collaboration | |
| | Fitness Centre | Designed to meet the needs of exercise |
| | Outdoor Park | Designed to meet the needs of exercise (walking) and brainstorming |
| | Recreational Spaces – Distraction Free Area | |
| | Library | As a reference for a quiet work area other than a private workspace |
| | Napping Area | Designed to meet the needs of rest |

b. Green Spaces (Biophilic Design Applications)

| The Concept | The Explanation |
|--|--|
| Nature in The Space, side by side with nature through urban farming | Visual Connection with Nature |
| | Experience of seeing natural elements such as soil, plants, etc. |
| | Thermal & Airflow Variability |
| | Experience feeling the humidity and wind movement as they are in nature for the work of plant growth. |
| | Presence of Water |
| | Provides experiences to see the water flow, hear the sound of water splashing, and touch the water through aquaponic |
| | Connections with Natural Systems |
| Growing plants from seed will provide experience to see plant growth until the harvest season. | |

6.2.2 Façade

| The Concept | The Explanation |
|--|---|
| Using passive design strategies: Shading devices and double facades system | Shadings |
| | Perforated metal shading on the west side. Living wall |
| | Light Shelves |
| | Reduce heat gain |

Better daylight distribution at the library and workspace

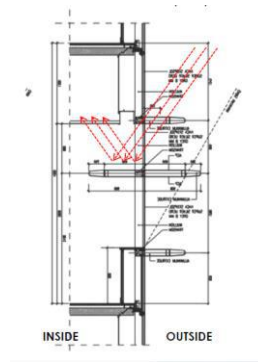


Figure 6. 2 Energy Efficiency by The Uses of Light Shelves

Sources: The Presentation of GB Implementation & Challenges in Indonesia, Green Building Seminar

Glass Material

Asahimas 8mm Stropsol Supersilver Grey

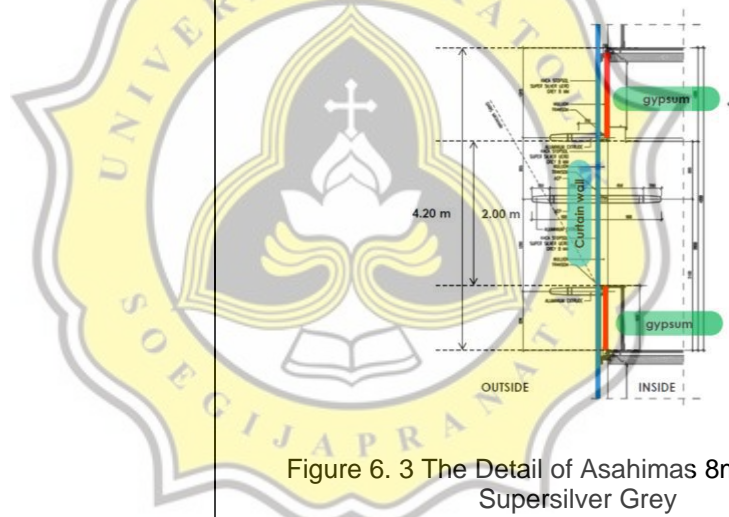


Figure 6. 3 The Detail of Asahimas 8mm Stropsol Supersilver Grey

Sources: The Presentation of GB Implementation & Challenges in Indonesia, Green Building Seminar

Table VI. 1 Problem Approaches

Sources: Personal Analysis