Stormwater Harvesting Consultancy

Blue Roof

-A Global Solution for the Future-

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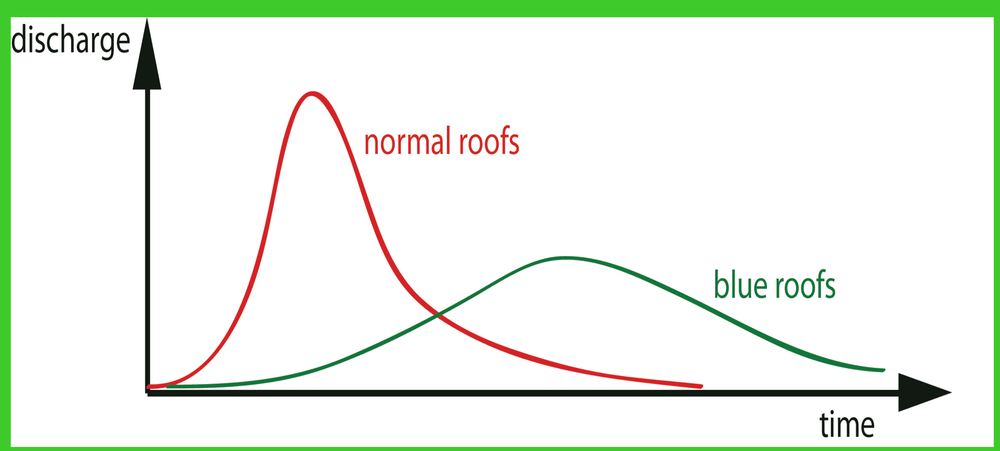
Introduction

Urban areas all over the world face the problem of more precipitation on more paved area. Heavy precipitation on paved area leads to fast surface runoff, which causes flooding of the streets.

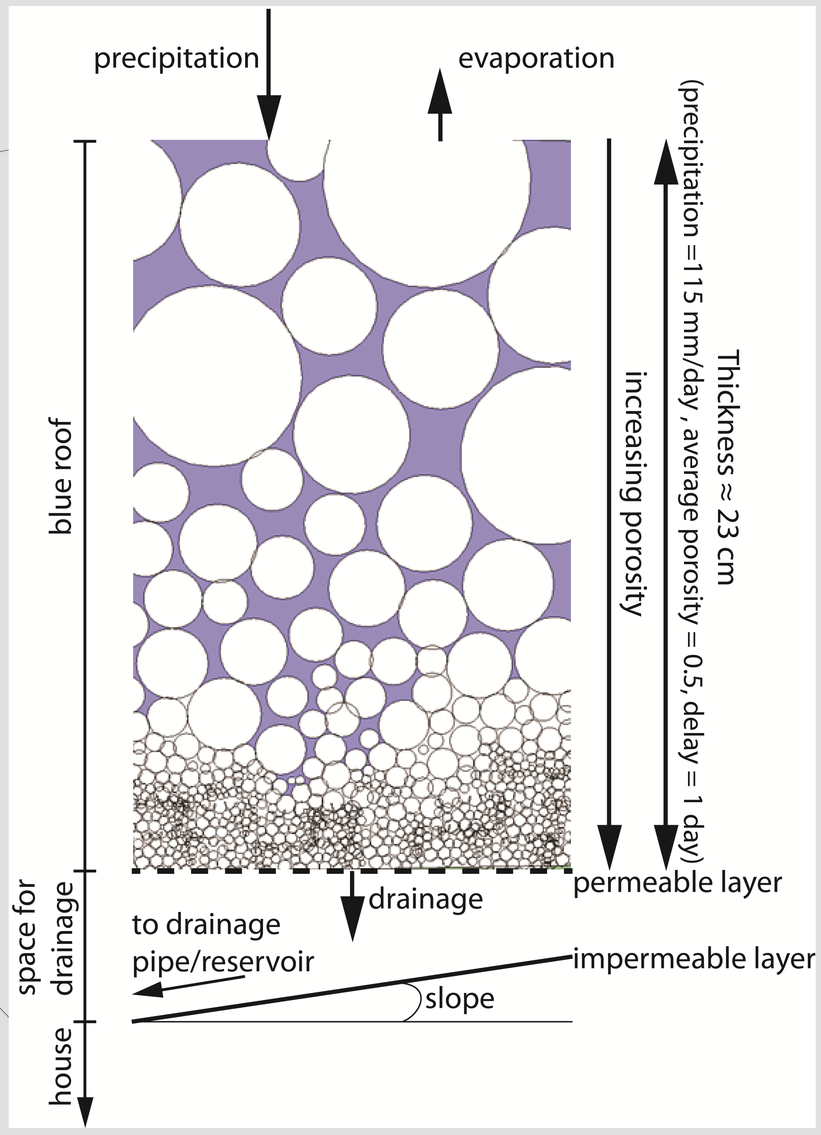
Solution

Blue roof:

- Temporary storage of rainwater to delay and reduce the peak discharge, which prevents flooding of the streets
- Water drains slowly through blue roof, which allows harvesting of the rainwater



Design



Material properties

- absorbent
- expandable/contractible
- lightweight
- insulative
- weather resistant
- non-toxic
- non-reactive
- non-flammable

Why blue roofs?

- Stormwater which normally overflows can be harvested and used for domestic purposes
- No need for expensive structural reinforcement that is required for green roofs
- Blue roofs make efficient use of the limited space available in highly populated cities
- The more roof surface in an area, the higher the effectiveness

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