

EcoBrik Application Guide

1. Versatility of Applications:

- **Pavement Bricks:** Used for sidewalks, driveways, and public plazas due to their high compressive strength (> 48 MPa) and weather resistance.
- **Brick Cladding:** Provides thermal insulation and aesthetic appeal for exterior walls.
- **Partition Walls & Fencing:** Suitable for interior/exterior non-load-bearing divisions in residential or commercial buildings.
- **Retaining Walls & Landscaping:** For sustainable landscape architecture in both urban and rural areas.



Paving



Brick Cladding



Partition Wall



**Sub-division
Fencing**



Retaining Wall

2. Total Installation Cost (TIC): TIC includes cost of materials, labor, and overhead.

- **No learning curve:** Brick laying has been around for centuries and brick layers don't want to learn new way of paving. A new technique will discourage architects and developers to adopt. Since Ecobrik and concrete brick are of the same size, so is the installation method, therefore no learning curve.
- **Lightweight:** Hand and wrist injuries are among the most frequent and costly workplace injuries in the U.S., particularly for bricklayers, who also commonly experience back pain from hours spent crouching and moving heavy materials. Because Ecobriks are approximately 50% lighter than conventional bricks, replacing concrete bricks with Ecobriks reduces handling time, lowers the risk of injuries, and can ultimately decrease insurance premiums.
- **Transportation:** The lighter weight of Ecobriks doubles the load per shipment while reducing transportation costs by half.
- **Low Maintenance:** Ecobriks require minimal upkeep, reducing costly repairs and replacements associated with concrete pavement. Replacing a damaged concrete slab (40 sq ft - 5' x 8') or the equivalent of 180 bricks—requires a full crew, an excavator, a traffic director, a dump truck, and at least 24 hours of curing time. In contrast, replacing a single Ecobrik can be done by one worker in less than 30 minutes, resulting in significantly lower maintenance cost.

Copyright and Revision Notice

This document is protected by copyright and may not be reproduced or distributed without permission. Samsara Materials reserves the right to revise, update, or withdraw this document at any time without prior notice. Information is provided "as is" and may change without obligation to notify users.