Applications of Wall Block technologies for disaster risk reduction

Kyrgyz Republic
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Professional Engineer
Soon Myung, Hong
Problems of Flooding
Problems of Landslide
Problems of Coastal Erosion
Problems of Tsunami
Problems of the existing retaining wall
Problems of the existing retaining wall
Problems of the existing retaining wall
● Problems of the existing retaining wall
Eco-Magic retaining wall block without the Groundwork
(Unique Technology of the wall blocks)

The shape of the Eco-magic retaining wall block

○ Flexible Mechanism: Excellent in returning to the original state

○ Vertical descent Mechanism: Filling up the space when soil erosion or scouring
Eco-Magic retaining wall block

Eco magic retaining wall block
500*500*250

Whole & Half blocks
combined to the vertical and horizontal direction

Ecological retaining wall block
500*500*200

Combined by pins
Various Cross Section for Construction
Excellence in erosion prevention and sand collection
Example on river rapids and weak ground

River rapids on mountains/
Weak grounds of downstream
Construction in River Rapids

- Test of Hydraulic Stability
  - Maximum velocity of flow: 6~7 m/s
  - Stability test on curve construct
Rainwater Management – Clog-free permeable pavement/unbreakable retaining wall block

Installation example of Big size Wall block using crane

Installation on landslide area
Rainwater Management System
– Clogless permeable block/ Construction Example of not collapsible wall block

Most effective way to install riverside embankment on desert area
Domestic production plants (Products type by factory)

Block manufacturing process

Jang Sung (Gangwon)

Dong San (Kyounggi)

Eco-Stone (Chungnam)

Jung Woo (Kyungnam)

Joo Am (Jeonnam)
Retaining Wall Example

Industrial Complex in Jincheon
Retaining Wall Example

Landslide on Hongcheon
Retaining Wall Example
Retaining Wall Example

Road-side
Retaining Wall Example

Parking area wall
Retaining Wall Example

River side
Retaining Wall Example

Road side
Retaining Wall Example

Road side
Retaining Wall Example
Retaining Wall Example

Stream side
Retaining Wall Example

Stream side
O Restoration of damaged river in Jun Nam
Restoring Mountain River Disaster
Overseas Applications - Brazil

- Production in two factories in São Paulo, Brazil

Completed construction of more than 20 places
Overseas Applications - Brazil

Brazilian technology joint venture home page

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TERMINAMOS A PRIMEIRA OBRA DE DEMONSTRAÇÃO DA ESCADA
Terminamos a primeira obra de demonstração da escada hidráulica de Oudenrecht em apenas um dia...
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TESTE DE PERMEABILIDADE
Imagens de obra realizada há 3 meses. Foi realizado o teste de permeabilidade e nota-se que a água...
16.2.2015 - No comment - 0 Likes
Overseas Applications - Brazil

- Project in Brazil
Overseas Applications - Brazil

- Project in Brazil

Road construction
Overseas Applications - Brazil

- Project in Brazil

Industrial complex construction
Overseas Applications - Brazil

- Project in Brazil

Restoration of collapsed road slope
Overseas Applications - Brazil

- Project in Brazil

Reconstruction of residential area cut-outs
Overseas Applications - Brazil

- Project in Brazil

Sliding Area Recovery
Overseas Applications - Brazil

- Project in Brazil

Restoration of road cutter
To be the World’s leading Ecological Environment Restoration company!

Thank you very much

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