

# MOTHERWELL COMMUNITY AND ENVIRO HUB

## HOW TO MAKE A 'BUILDING BLOCK' WITH WASTE



### The 'Matrix'

- 0,5 parts building / crushed glass sand
- 1 part cement
- 5 parts crushed polystyrene
- 5 parts 'foam'



Cement Slurry  
(Cement Powder + Water)



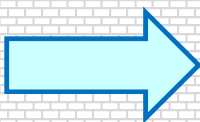
Foam  
(Liquid Soap + Water)



'Foamcrete'  
(Cement Slurry + Foam)



Add Sand (Mix); Add Shredded Polystyrene  
(Mix)

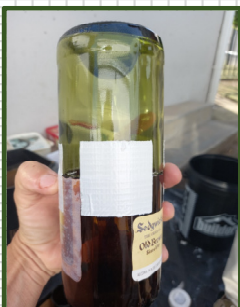


### Note:

- Make sure all polystyrene is well coated and blended into the mix
- Wear a mask, safety glasses, and gloves

### The Glass Bottle Block

Sixteen cut bottles (9,5 cm length) / Put 2 similar halves together, secure with duct tape / Arrange in 2 bundles of 4, tape together / Position in mould / Scoop in 'matrix' mixture / Keep bottles steady throughout process / Ensure all gaps are filled / Compact from the bottom up as you go along / When mould is full, compact a final time / Put lid in position, and tighten wing nuts / After 12-24 hours – clean glass.



### The Eco-Brick Block



- Place layer of matrix material in mould
- At desired 'height' position Eco-Brick on its side in mould
- Cover with matrix material
- Make sure to fill all gaps, and compact as you go along
- When full, put lid in place, and tighten wing nuts
- Leave to set for 12 to 24 hours

