



LITRE OF LIGHT GUIDEBOOK

SAFE, SUSTAINABLE LIGHTING
FOR INFORMAL SETTLEMENTS

Produced By Students From Worcester Polytechnic
Institute's Cape Town Project Centre 2012

Written For The Community Of Mtshini Wam

About Litre Of Light

- This system is claimed to produce the light equivalent to a 50-Watt incandescent bulb
- Each light is good for 2 years until it must be replaced
- It costs approximately R33 per light if all tools are available

How many litres of light are recommended for each shack size?

- 2 lights in a 10m^2 shack
- 3 lights in a 12m^2 shack
- 4 lights in a 15m^2 shack
- 5 lights in a 20m^2 shack

Acknowledgements for the knowledge and success of this community project are given to Litre of Light Foundation, Steven Lamb from Touching The Earth Lightly, and the WPI Interactive Global Studies Division.

Supplies That Must Be Bought Often:



Epoxy Cement



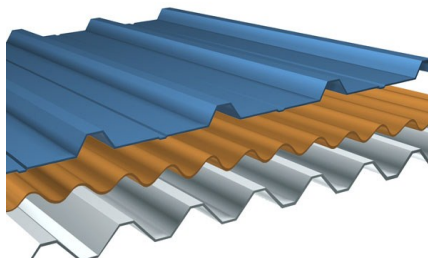
Bleach



Rivets



Flashband

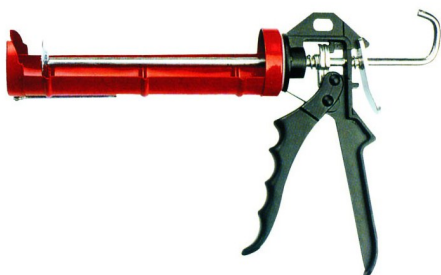


Metal Baseplates



Plastic 2L

One Time Purchases:



Caulking Gun



Drill



Rivet Gun



Aviation Snips



Tape Measure

The Installation Process



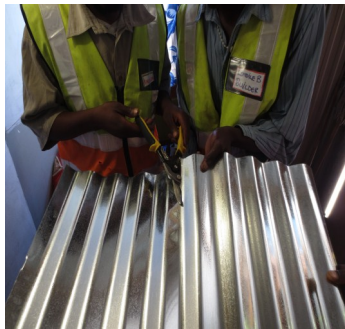
Lightly sand sides



Measure 30mL bleach



Put bleach in bottle



Prepare Baseplate



Measure and Mark



Cut Bottle Hole



Bottle should not fit



1 cm Snips to fray edge



Carefully test bottle fits



Pick where to place



Cut small line to mark



Mark larger hole

The Installation Process



Cut Larger Hole



Test



Caulk underneath



Apply Pressure



Drill Holes for Rivets



Place Rivets



Compress Rivets



Apply Flashband at top



Mix Epoxy to Cream



Seal Cap And Sides



Congratulations!
