



Improving emergency shelters in north-east Nigeria.

Prepared by IOM shelter team in Maiduguri, May 2017



Key joints are improved with metal straps (langa langa) and/or rope.



Strengthen the truss by adding bracing



Langa langa to strengthen key joints.



Roof bracing can be done with rope.



Add battens to ensure that the plastic sheets are pulled tight and do not flap with the wind.

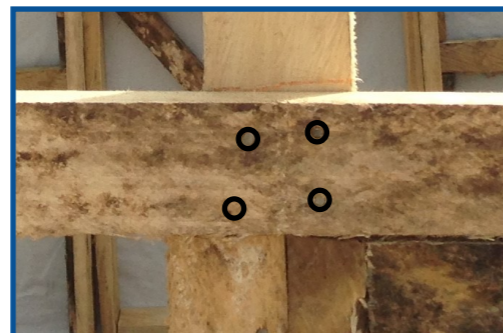


Finished shelter Structure

Brace the door and use cut-offs from the timber to brace joints



Lateral (wall) bracing can be done with tie wire or rope, if timber is not available.



Always use more than one nail for a connection, and try to nail them at an angle rather than straight.

...and go at least 2 feet (60 cm) below the ground!

Don't forget your anti-termite treatment!

Anchor the foundation...



If using tie wire for bracing, twist it in order to tension it well

