R·A·M·E·S·S·E·S

EMERGENCY SHELTER

REUSE OF AVAILABLE MATERIAL, ENERGY, STRUCTURES & SUPPLIES FOR EMERGENCY SHELTER

The Mission of this project is to provide a space within which dignity and self-determination can be nurtured and restored for refugees subject to extreme trauma in sub-Saharan Africa. RAMESSES provides a sustainable, culturally familiar environment, sensitive to local climate, materials access and politics. RAMESSES is supplied primarily as a self-build kit with assembly instructions included in the form of minimal pictograms. The materials, at hand where possible, are precut for quick assembly. Field trials in East and West Africa will take place in 2014.

VENT

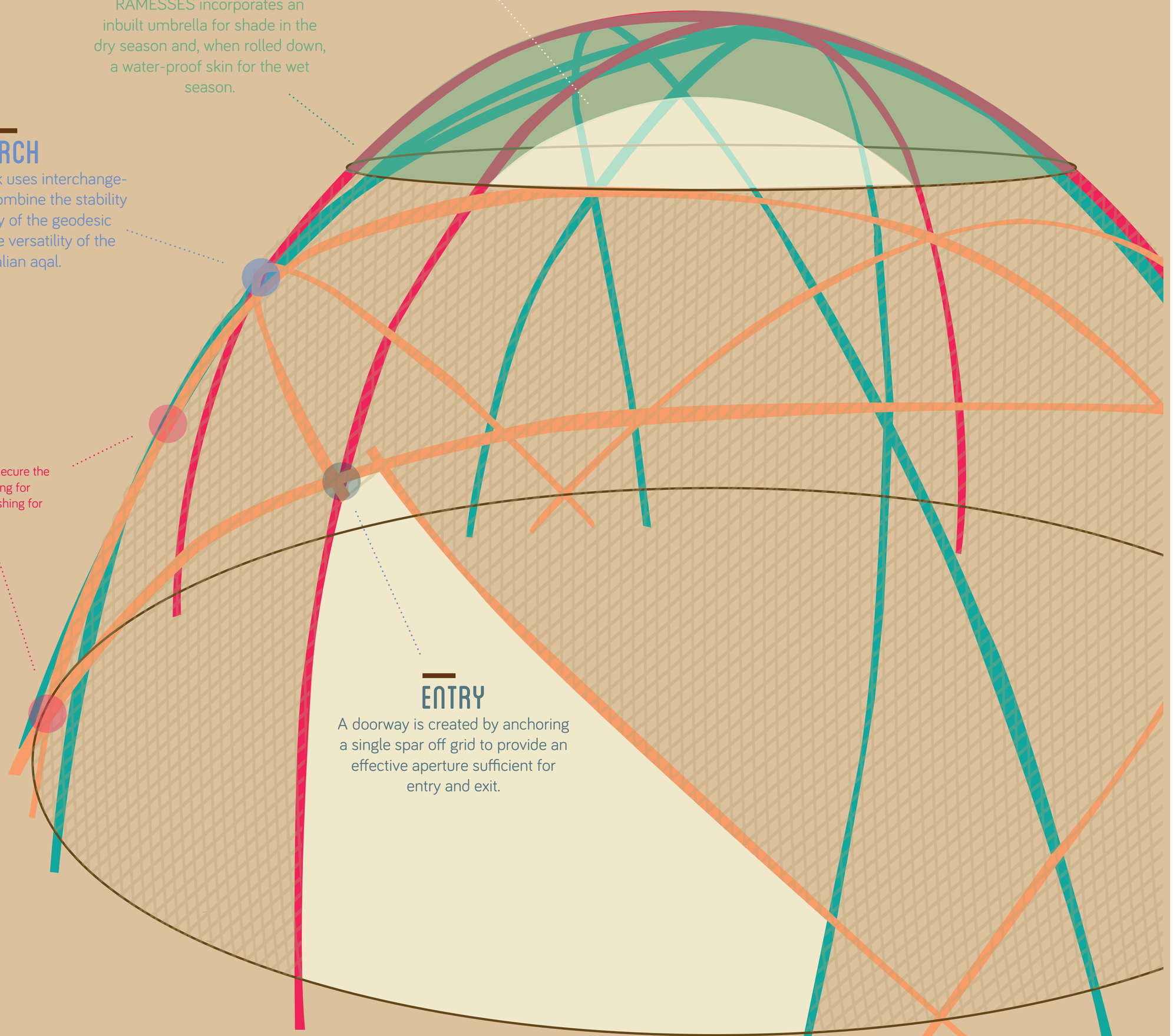
Ventilation and illumination throughout the interior are controlled by four adjustable apertures.

UMBRELLA

To accommodate both seasons, RAMESSES incorporates an inbuilt umbrella for shade in the dry season and, when rolled down, a water-proof skin for the wet season.

ARCH

The framework uses interchangeable spars to combine the stability and efficiency of the geodesic dome with the versatility of the Somalian aqal.



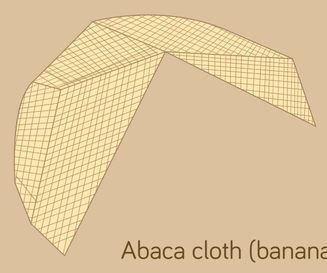
KNOTS

Two types of knots are used to secure the bamboo spars - square lashing for orthogonal members, round lashing for colinear members.

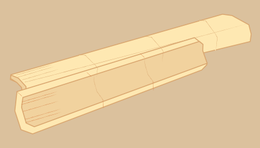
ENTRY

A doorway is created by anchoring a single spar off grid to provide an effective aperture sufficient for entry and exit.

REUSED



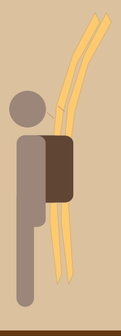
Abaca cloth (banana)



Bamboo arch (raw bamboo)

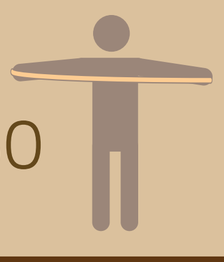
Sisal rope (agave)

Kit Weight
36kg



Archs
3.8cm x 3.0m
x40

Rope
3.3m
x60



GEODESIC
CENTER X
X-ARCHES

Average Refugee Family

5 Hour assembly

For more information please visit: cooper.edu/projects/ramesses