



International Federation  
of Red Cross and Red Crescent Societies

---

**Shelter Research Unit**

an initiative of the **Benelux Red Cross Societies**

## **CLADDING AND FIXING CONFERENCE**

Luxembourg, 3 & 4 of September 2014

**Problem statement:**

**Common practices & typical problems encountered**

**Cecilia Braedt (SRU)**

## Objectives:

- Methodologically document technical details of implemented shelter projects
- Make available this information as an online resource to speed up planning and help deliver a more adapted shelter response
- Analyse the data and identify best practices as well as needs for technical improvement.



International Federation  
of Red Cross and Red Crescent Societies

**Shelter Research Unit**  
an initiative of the Benelux Red Cross Societies

Login

# Shelters localization in the world

multicriteria search

Search





International Federation of Red Cross and Red Crescent Societies

Shelter Research Unit  
an initiative of the Benelux Red Cross Societies

Login

# Shelters localization in the world

multicriteria search

Search





International Federation  
of Red Cross and Red Crescent Societies

Shelter Research Unit  
an initiative of the Bangladesh Red Crescent Societies

# Shelters Details

structured data



map centered on  
selected shelter

GENERAL

SITE

STRUCTURE

SKIN

SERVICES

## IDENTIFICATION

Country	Bangladesh		
Location	Patuakhali Mahiupur	GPS	21°51'21.64"N, 90°9'58.78"E
Climate type	moist tropical		
Landform	river delta		

## GENERAL PROPERTIES

Year of construction	2010	Typology	detached
Number of inhabitants	4	Storeys	1
Occupancy (site)	landowner	Rooms	1
Occupancy (house)	owner-occupier	Floor Area	17 m2
Total construction cost	\$940	Total construction time	4 days

## DISASTER & RELIEF

Immediate cause	storm/cyclone
Housing strategy	by NGO
Shelter phase	transitional
Building back option	rebuild
Transitional Settlement	self-settlement
Labour method	contract labour

print

save

validate





map centered on  
selected shelter

print

save

validate

GENERAL

SITE

STRUCTURE

SKIN

SERVICES

## DATA

Facade cladding

Bamboo

Roof cladding

Metal sheeting

Doors, windows, ventilation

1 door, 4 windows, no additional ventilation openings

## MULTIMEDIA



Video



Video



## DOCUMENTS





International Federation of Red Cross and Red Crescent Societies

**Shelter Research Unit**  
an initiative of the Benelux Red Cross Societies

Login

# Shelter data

General Information

Structure

**Skin**

Services

Spaceplan

FACADE CLADDING MATERIAL

THICKNESS OF CLADDING MATERIAL (mm)

ROOF COVERING MATERIAL

THICKNESS OF ROOF COVERING (mm or gauge)

FLOOR FINISH MATERIAL

NUMBER OF DOORS

DOORS MATERIAL

NUMBER OF WINDOWS

WINDOWS MATERIAL

NUMBER OF SHUTTERS

SHUTTERS MATERIAL

INSULATION SYSTEM

INSULATION MATERIAL

*comment*

# Shelter Solutions Database

SKIN (tab 3) ( all sub-items on same page)	Cladding	Facade cladding material	none; brick; hollow brick; perforated brick; adobe/ sun-dried brick; mud plaster; concrete block (solid); hollow concrete block; cement plaster; wattle & daub; timber; wood; plywood; fiber cement board/ cement board; bamboo; metal sheeting; plastic sheeting (tarpaulin); canvas; textile; woven mat (organic material); thatch; straw; corrugated galvanized iron (CGI) sheet; shingle; wood shingle; other;
		Thickness of cladding material (mm)	>0
		Roof covering material	corrugated galvanized iron (CGI) sheet; insulated metal roofing sheet; corrugated bitumen roofing panel; aluminium roofing sheet; plastic sheeting (tarpaulin); thatch; leaves; straw; clay tiles; concrete tiles; stone shingle; asphalt shingle; wood shingle; asphalt; bamboo; wood; plywood; GPR (fibreglass) panel; other
		Thickness of roof covering (mm or gauge)	>0
		Floor Finish Material	none; timber; wood; cement plaster; mud plaster; bamboo; ceramic tiles; carpet; plastic floor; organic material; other
	Openings	Number of doors	>0
		Doors material	timber; wood; plywood; bamboo; plastic sheeting; mesh; insect screening mesh; fibreglass; leaves; other
		Number of windows	>0
		Windows material	timber; wood; plywood; bamboo; plastic sheeting; insect screening mesh; fibreglass; lattice; other
		Number of shutters	>0
	Insulation	Shutters material	metal; timber; wood; plywood; bamboo; other
		Insulation system	none; shading ; insulation of the flooring; insulation on the walls; insulation below the roof; other
		Insulation material	none; shade net; insulated corrugated roofing sheeting; organic material; other



- **Are the relevant cladding materials captured ?**
  - **Which materials are missing?**
  - **To what level of detail should the database go?**
  - **How to include the fixings?**
-



International Federation  
of Red Cross and Red Crescent Societies

**Shelter Research Unit**  
an initiative of the **Benelux Red Cross Societies**

**Cecilia Braedt, Coordinator / [cecilia.braedt@croix-rouge.lu](mailto:cecilia.braedt@croix-rouge.lu)**  
**T.: +352.27.55.89.02**

**Vincent Virgo, Research Officer / [vincent.virgo@croix-rouge.lu](mailto:vincent.virgo@croix-rouge.lu)**  
**Daniel Ledesma, Research Officer / [daniel.ledesma@croix-rouge.lu](mailto:daniel.ledesma@croix-rouge.lu)**  
**T.: +352.27.55.89.03**

IFRC-SRU, 10 Cité Henri Dunant, L-8095 Bertrange, Luxembourg