

# Distribution of Houses by Predominant Materials of Roof and Wall and Level of Damage Risk

**Table No. : RJ 13**

**State : RAJASTHAN**

**SIKAR**

Wall / Roof		Census Houses		Level of Risk under								Flood Pron e Area
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
						7.4	92.6		100			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	24,954	4.0									
	Urban	5,353	0.9									
	Total	30,307	4.9			M	L		H			
A2 - Stone Wall not packed with mortar	Rural	19,769	3.2									
	Urban	3,619	0.6									
	Total	23,388	3.8			M	L		M			
Total - Category - A		53,695	8.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	417,338	67.0									
	Urban	133,042	21.3									
	Total	550,380	88.3			L	VL		M			
Total - Category - B		550,380	88.3									
C1 - Concrete Wall	Rural	722	0.1									
	Urban	568	0.1									
	Total	1,290	0.2			VL	VL		VL			
C2 - Wood wall	Rural	2,015	0.3									
	Urban	559	0.1									
	Total	2,574	0.4			VL	VL		H			
Total - Category - C		3,864	0.6									
X - Other Materials	Rural	12,942	2.1									
	Urban	2,428	0.4									
	Total	15,370	2.5			VL	VL		H			
Total - Category - X		15,370	2.5									
TOTAL HOUSES*		623,309										

ROOF												
R1 - Light Weight Sloping Roof	Rural	69,684	11.2									
	Urban	8,837	1.4									
	Total	78,521	12.6			L	VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	386,086	61.9									
	Urban	111,097	17.8									
	Total	497,183	79.7			L	VL		M			
R3 - Flat Roof	Rural	21,970	3.5									
	Urban	25,635	4.1									
	Total	47,605	7.6	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		623,309										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **683 mm**

**Housing Category : Wall Types**

**Category - A :** Buildings in field-stone, rural structures, unburnt brick houses, clay houses

**Category - B :** Ordinary brick building; buildings of the large block & prefabricated type, half-timbered structures, building in natural hewn stone

**Category - C :** Reinforced building, well built wooden structures

**Category - X :** Other materials not covered in A,B,C. These are generally light.

**Notes :** 1. Flood prone area includes that protected area which may have more severe damage under failure of protection works. In some other areas the local damage may be severe under heavy rains and choked drainage.

2. Damage Risk for wall types is indicated assuming heavy flat roof in categories A, B and C (Reinforced Concrete) building

3. Source of Housing Data : Census of Housing, GOI, 2011

**Housing Category : Roof Type**

**Category - R1 -** Light Weight (Grass, Thatch, Bamboo, Wood, Mud, Plastic, Polythene, GI Metal, Asbestos Sheets, Other Materials)

**Category - R2 -** Heavy Weight (Tiles, Stone/Slate)

**Category - R3 -** Flat Roof (Brick, Concrete)

EQ Zone V : Very High Damage Risk Zone (MSK > IX)

EQ Zone IV : High Damage Risk Zone (MSK VIII)

EQ Zone III : Moderate Damage Risk Zone (MSK VII)

EQ Zone II : Low Damage Risk Zone (MSK < VI)

Level of Risk : VH = Very High; H = High;

M = Moderate; L = Low; VL = Very Low

\* Total No.of Houses excluding Vacant/Locked Houses