

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

**Table No. : RJ 27**

**State : RAJASTHAN**

**BANSWARA**

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 %					
							100		2.7	97.3			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	236,483	57.7										
	Urban	3,726	0.9										
	Total	240,209	58.6				L		H	M			
A2 - Stone Wall not packed with mortar	Rural	16,754	4.1										
	Urban	806	0.2										
	Total	17,560	4.3				L		M	L			
Total - Category - A		257,769	62.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	88,702	21.6										
	Urban	28,256	6.9										
	Total	116,958	28.5				VL		M	L			
Total - Category - B		116,958	28.5										
C1 - Concrete Wall	Rural	1,586	0.4										
	Urban	727	0.2										
	Total	2,313	0.6				VL		VL	VL			
C2 - Wood wall	Rural	2,747	0.7										
	Urban	81	-										
	Total	2,828	0.7				VL		H	M			
Total - Category - C		5,141	1.3										
X - Other Materials	Rural	29,330	7.2										
	Urban	704	0.2										
	Total	30,034	7.4				VL		H	M			
Total - Category - X		30,034	7.3										
TOTAL HOUSES*		409,902											

ROOF													
R1 - Light Weight Sloping Roof	Rural	67,198	16.4										
	Urban	4,724	1.2										
	Total	71,922	17.6				VL		VH	H			
R2 - Heavy Weight Sloping Roof	Rural	283,626	69.2										
	Urban	13,461	3.3										
	Total	297,087	72.5				VL		M	L			
R3 - Flat Roof	Rural	24,778	6.0										
	Urban	16,115	3.9										
	Total	40,893	9.9	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		409,902											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **530 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