

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

Table No. : AS 23

State : ASSAM

KAMRUP METROPOLITAN

Wall / Roof		Census Houses		Level of Risk under									Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
				100				100					
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	2,558	0.7										
	Urban	4,913	1.3										
	Total	7,471	2.0	VH				VH					
A2 - Stone Wall not packed with mortar	Rural	373	0.1										
	Urban	5,222	1.4										
	Total	5,595	1.5	VH				H					
Total - Category - A		13,066	3.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	17,052	4.4										
	Urban	187,682	48.7										
	Total	204,734	53.1	H				H					
Total - Category - B		204,734	53.2										
C1 - Concrete Wall	Rural	2,104	0.5										
	Urban	51,631	13.4										
	Total	53,735	13.9	M				L					
C2 - Wood wall	Rural	1,332	0.3										
	Urban	3,789	1.0										
	Total	5,121	1.3	M				VH					
Total - Category - C		58,856	15.3										
X - Other Materials	Rural	34,198	8.9										
	Urban	74,250	19.3										
	Total	108,448	28.2	M				VH					
Total - Category - X		108,448	28.2										
TOTAL HOUSES*		385,104											

ROOF													
R1 - Light Weight Sloping Roof	Rural	55,373	14.4										
	Urban	222,106	57.7										
	Total	277,479	72.1	M				VH					
R2 - Heavy Weight Sloping Roof	Rural	784	0.2										
	Urban	11,391	3.0										
	Total	12,175	3.2	H				H					
R3 - Flat Roof	Rural	1,460	0.4										
	Urban	93,990	24.4										
	Total	95,450	24.8	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		385,104											

Probable Maximum Precipitation at a Station of the district in one day for areal extent of 1000 sq.km. is 529 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