

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

Table No. : AS 22

State : ASSAM

KAMRUP

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				9.8	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	10,070	2.4										
	Urban	1,685	0.4										
	Total	11,755	2.8	VH				VH				VH	
A2 - Stone Wall not packed with mortar	Rural	2,610	0.6										
	Urban	698	0.2										
	Total	3,308	0.8	VH				H				VH	
Total - Category - A		15,063	3.6										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	82,154	19.5										
	Urban	19,014	4.5										
	Total	101,168	24.0	H				H				H/M	
Total - Category - B		101,168	24.0										
C1 - Concrete Wall	Rural	11,749	2.8										
	Urban	3,377	0.8										
	Total	15,126	3.6	M				L				L/VL	
C2 - Wood wall	Rural	17,510	4.2										
	Urban	2,906	0.7										
	Total	20,416	4.9	M				VH				H	
Total - Category - C		35,542	8.4										
X - Other Materials	Rural	255,867	60.7										
	Urban	13,574	3.2										
	Total	269,441	63.9	M				VH				VH	
Total - Category - X		269,441	64.0										
TOTAL HOUSES*		421,214											

ROOF												
R1 - Light Weight Sloping Roof	Rural	373,193	88.6									
	Urban	38,114	9.0									
	Total	411,307	97.6	M				VH				VH
R2 - Heavy Weight Sloping Roof	Rural	4,467	1.1									
	Urban	656	0.2									
	Total	5,123	1.3	H				H				H
R3 - Flat Roof	Rural	2,300	0.5									
	Urban	2,484	0.6									
	Total	4,784	1.1	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		421,214										

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