

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

Table No. : AS 12

State : ASSAM

SIVASAGAR

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	5,245	1.4										
	Urban	646	0.2										
	Total	5,891	1.6	VH				VH					
A2 - Stone Wall not packed with mortar	Rural	1,367	0.4										
	Urban	284	0.1										
	Total	1,651	0.5	VH				H					
Total - Category - A		7,542	2.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	79,376	20.6										
	Urban	20,996	5.5										
	Total	100,372	26.1	H				H					
Total - Category - B		100,372	26.1										
C1 - Concrete Wall	Rural	2,299	0.6										
	Urban	2,651	0.7										
	Total	4,950	1.3	M				L					
C2 - Wood wall	Rural	978	0.3										
	Urban	498	0.1										
	Total	1,476	0.4	M				VH					
Total - Category - C		6,426	1.7										
X - Other Materials	Rural	257,185	66.8										
	Urban	13,709	3.6										
	Total	270,894	70.4	M				VH					
Total - Category - X		270,894	70.3										
TOTAL HOUSES*		385,234											

ROOF													
R1 - Light Weight Sloping Roof	Rural	333,341	86.5										
	Urban	27,379	7.1										
	Total	360,720	93.6	M				VH					
R2 - Heavy Weight Sloping Roof	Rural	4,161	1.1										
	Urban	1,696	0.4										
	Total	5,857	1.5	H				H					
R3 - Flat Roof	Rural	8,948	2.3										
	Urban	9,709	2.5										
	Total	18,657	4.8	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		385,234											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 590 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